

MERKUR²

GENERAL CATALOGUE

GENERAL CATALOGUE OF WIRE MESH CABLE TRAY SYSTEM

10 year warranty

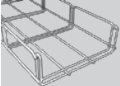
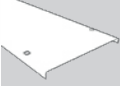




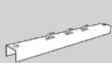


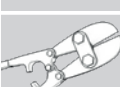


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M2 WIRE MESH CABLE TRAYS

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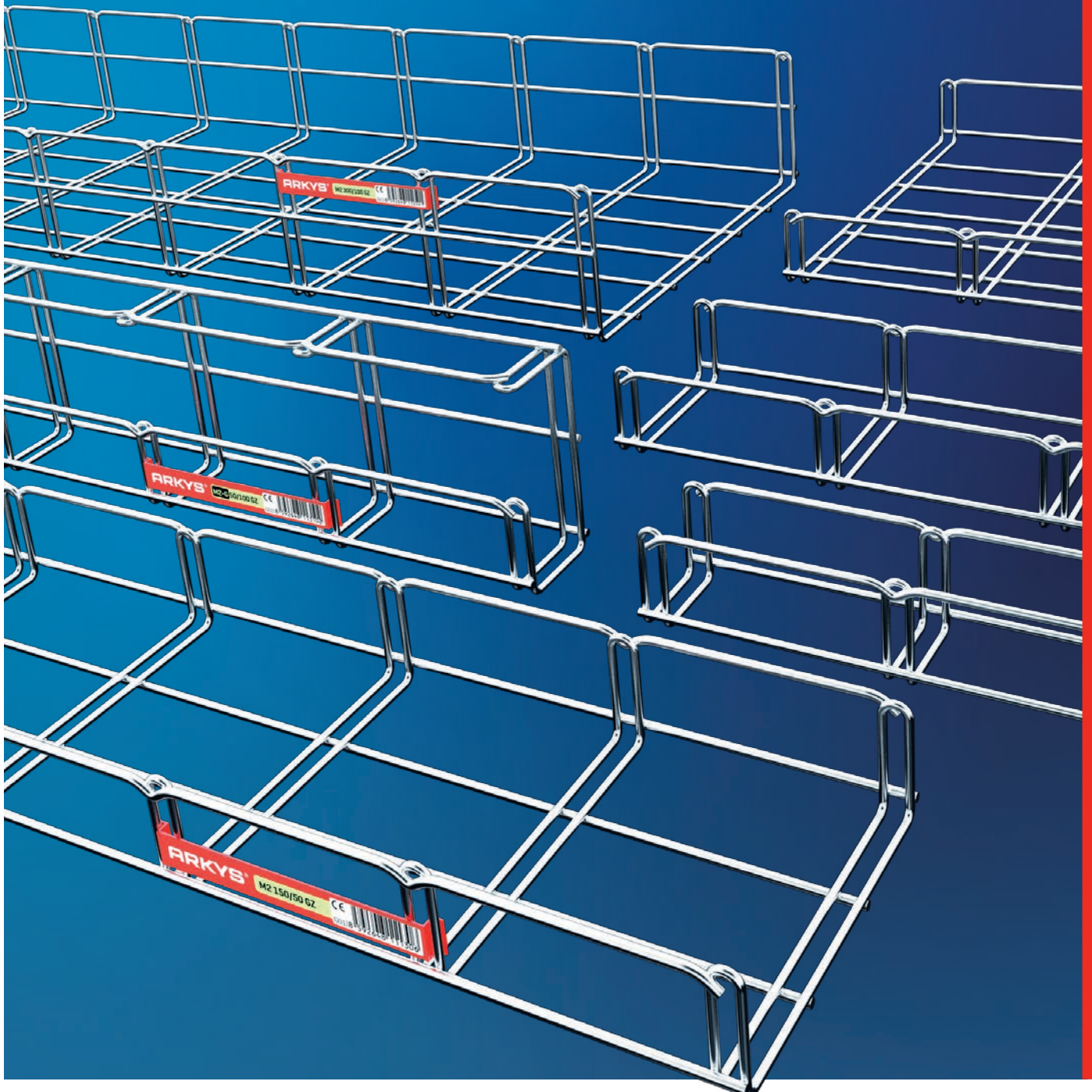
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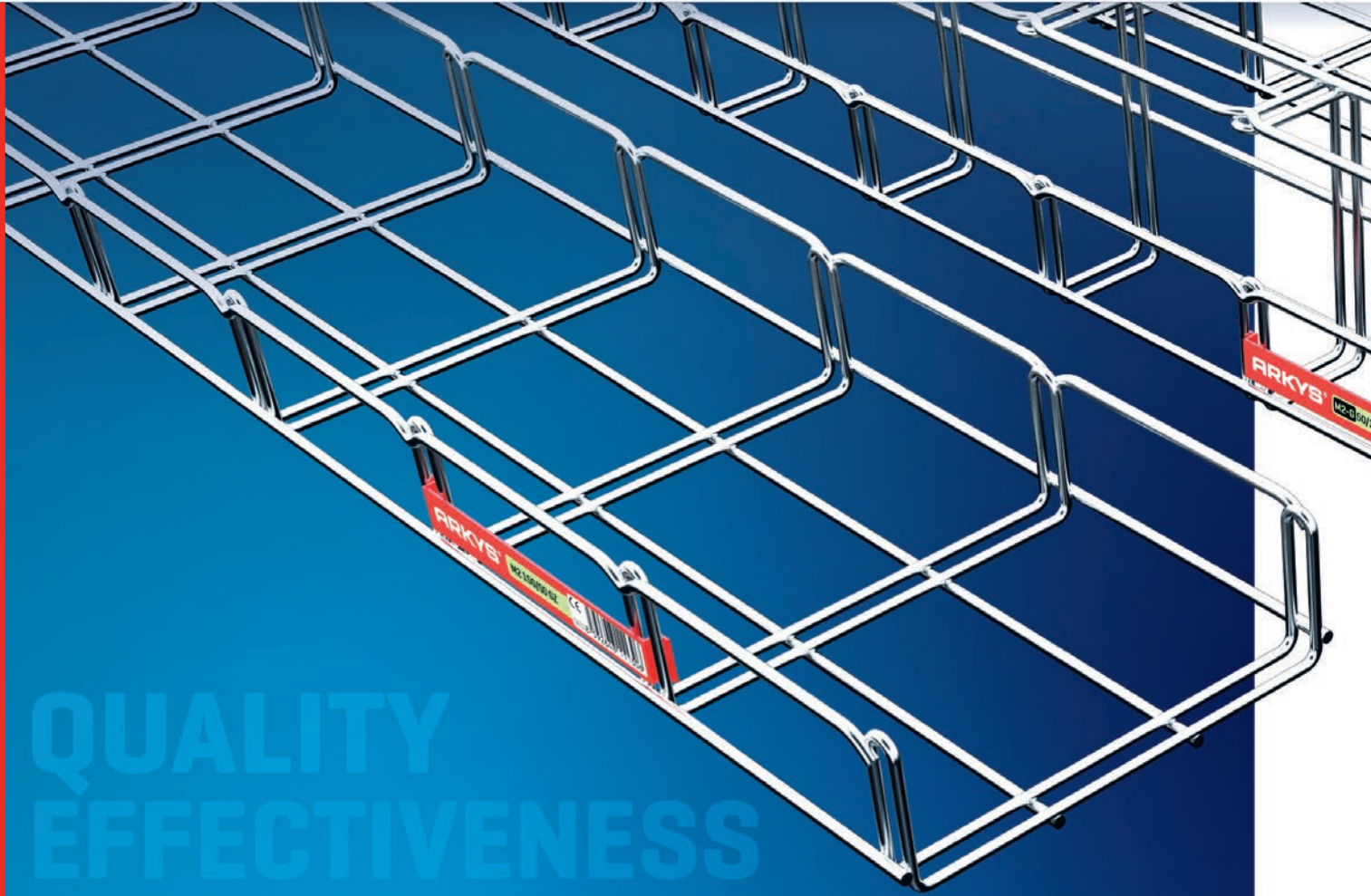
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QUALITY
EFFECTIVENESS
RELIABILITY

MERKUR²

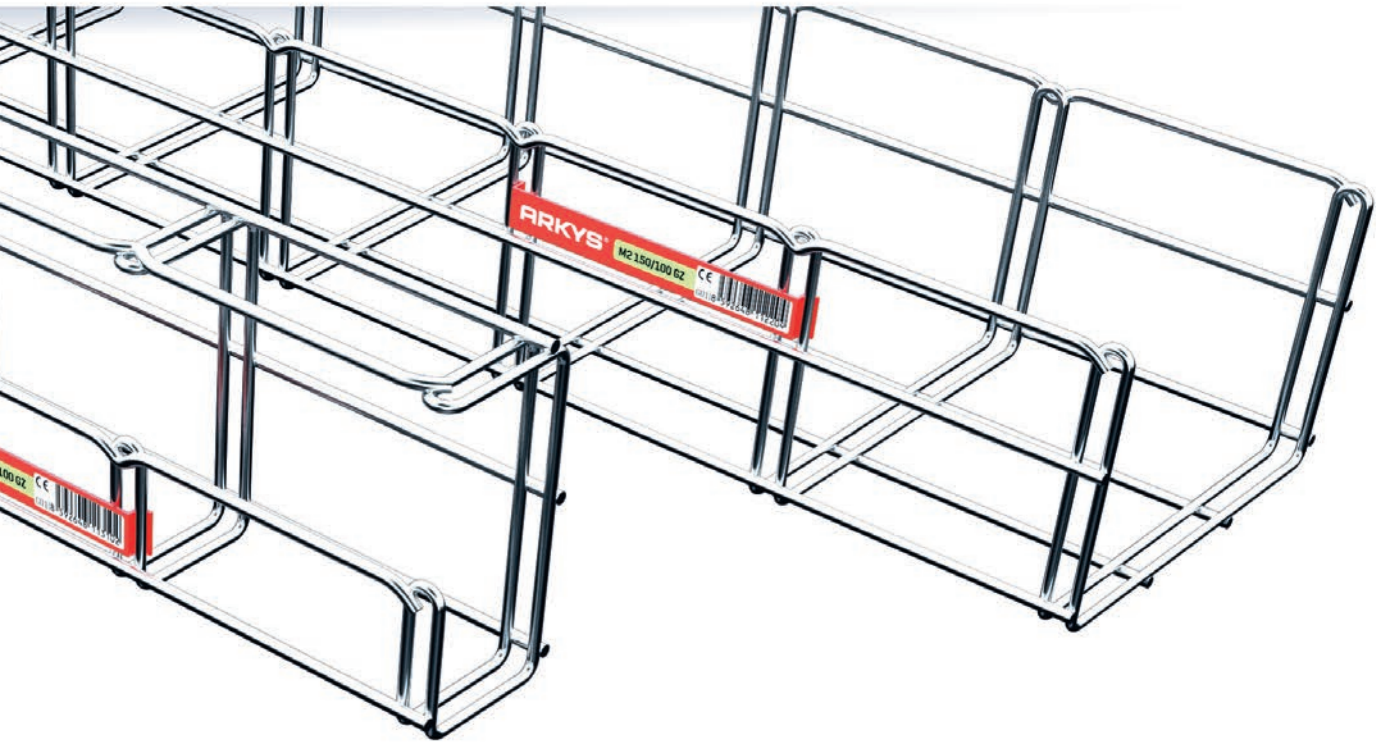
The leading cable support system in CZ

MERKUR 2 wire mesh cable trays are designed for the assembly of high-voltage cable routes for light circuits and motive current distribution, low-voltage circuits, measuring and control systems as well as other media. Trays and accessories are made of steel wire and sheet with electrogalvanized, pre-galvanized or hot-dip-galvanized finish, or of stainless steel wire and AISI 304L/ AISI 316L sheet.

Therefore, they are suitable both for indoor and unprotected outdoor installation. They are also perfectly convenient for the chemicals and food processing industries, for environments where chlorine (Cl) and fluorine (F) occur.

ARKYS[®]





GENERAL INFORMATION AND BENEFITS

Easy and fast assembly

Low weight, optimal manufacturing length, high variability and flexibility, and easy and fast assembly right on the construction site are the key features of the MERKUR 2 system. It provides a solution for complex wire mesh tray routes with a limited budget and using ordinary tools.

Simple logistics

MERKUR 2 wire mesh trays do not require any routing elements typical for standard through trays. No elbows, T-parts, crosses, reductions or any other such parts are needed. These are created right on the construction site from a standard tray, merely by shaping and using simple connectors. Unexpected situations are thus easy to deal with, any shape may be created from the wire mesh trays and the cable route may be adjusted as necessary.

Simple cable branching

Simplicity is one of its crucial features - the MERKUR 2 cable tray system allows cables to exit the tray at any point, and neither special tools nor rubber grommets are required. Such installation is much more effective in terms of costs and logistics.

High load capacity

By using a patented technology of double crossbeams in combination with optimised distribution of the bearing wires, the MERKUR 2 mesh tray allows high loading capacity. This feature makes MERKUR 2 mesh trays more rigid and resistant, broadening the scope of their application.

Cable friendly

The rounded-off design of the mesh tray contributes to easy and safe assembly, while reducing the risk of cable damage during the installation.

High electric load

The "open" wire construction of MERKUR 2 mesh trays with its excellent air passage enables significantly better cable cooling than "closed" sheet metal cable trays. It is possible to achieve higher current capacity of a cable route with such improved cooling.

Minimum maintenance

The open concept of MERKUR 2 mesh trays eliminates the accumulation of dust particles and the proliferation of microbes, reducing the upkeep of the cable route to a minimum. This feature makes this mesh tray highly popular, among others, in the food processing industry.

Fire resistance

Due to its natural strength and rigidity, MERKUR 2 mesh trays [M2 and M2-G types] fulfil all requirements for fire resistance, as proved by numerous tests and subsequent certificates up to P90-R. For further details, please refer to the fire resistance-related catalogue.

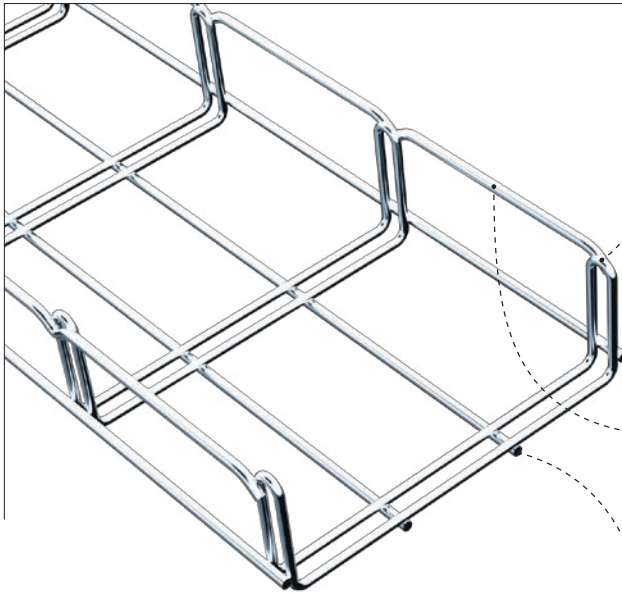
Compatibility

All MERKUR 2 mesh tray types are mutually compatible. They can share the bearing components or be a part of the same cable route.

These are the key benefits, while many further qualities emerge during installation of a particular cable route. This makes MERKUR 2 the perfect solution for cable routes in various environments and situations, as proved by satisfied users and prominent installations.

MERKUR 2 has for a long time been the most popular wire mesh tray system in the Czech Republic. The MERKUR name has consequently become a synonym for wire mesh trays in our country.

MERKUR 2 wire mesh cable tray design



Patented double crossbeam

The double crossbeam construction makes the mesh tray sturdy and considerably improves the load capacity. This feature also contributes to the excellent qualities of the system in challenging situations (for example, fire). Additionally, the double crossbeam construction enables fixed joints of the mesh trays using all MERKUR 2 couplers.

	wire diameter
50 - 200/50, 100/100	ø 3.5 mm
250 - 500/50, 150 - 500/100	ø 4.0 mm

Shaped upper edge

The absence of sharp edges eliminates the risk of cable damage and enables comfortable and safe cable route installation.

	wire diameter
M2, M2-G type	ø 4.0 mm

Runners

convey the forces along the mesh tray and thus enhance the load capacity. The number and diameter of the runners define the longitudinal load capacity, while the supporting spots span may go up to 2.0 m with the standard M2 type.

	wire diameter
M2, M2-G type	ø 4.0 mm

The MERKUR 2 mesh tray's technical design is exceptional and unique thanks to:

- double crossbeam which enhances the strength and stability of the mesh tray during the assembly, installation and operation of the cable route. It also helps to distribute the cables' weight.
- shaped upper edge which, together with the double crossbeam, enhances the strength and stability of the mesh tray, especially thanks to the wire shaping and two welds fixing the upper edge to the double crossbeam.

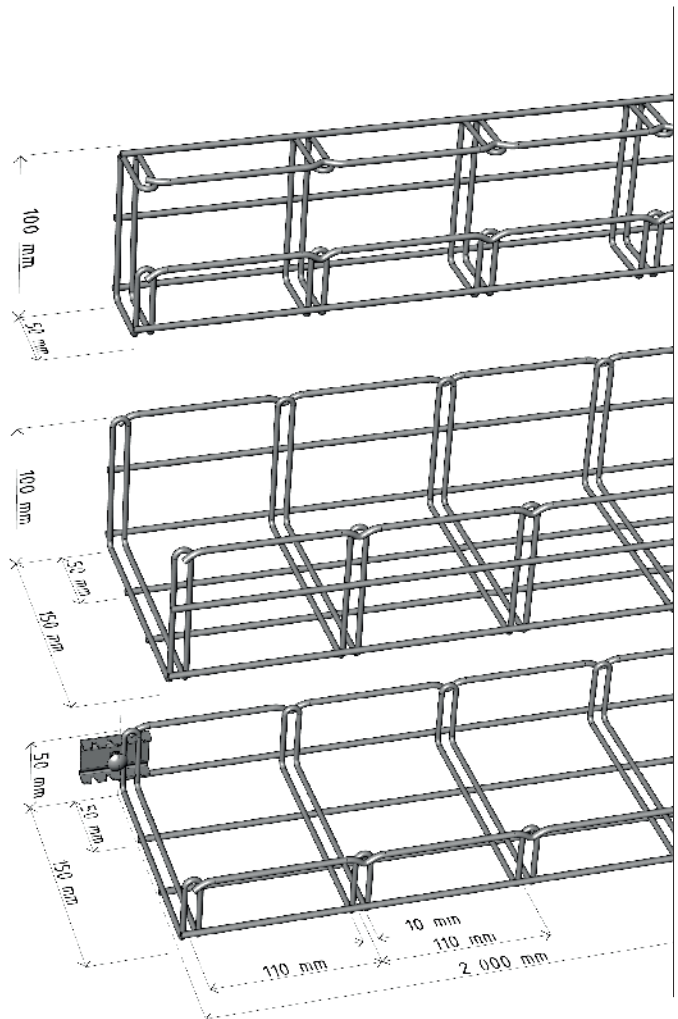
Finally, yet importantly, the combination of these exceptional technical features helps protect the installers working with MERKUR 2 in the warehouse and on the construction site. All cables may be safely placed in mesh trays, avoiding insulation damage.

Such features are indispensable when challenging situations occur - fire, earthquake, serious accidents and similar incidents with fatal impacts. Under all similar circumstances, the MERKUR 2 system provides a solid support for cable routes, ensuring their full operation.

Other mesh tray types

The MERKUR 2 mesh tray line includes the standard M2 type and the M2-G type, developed as a result of clients' demands to simplify particular cable route installations.

The M2-G type makes direct ceiling installation easier thanks to its half-open design; the DZM 12 holder replaces the need for a threaded rod. Cables can thus easily and comfortably be placed into mesh trays. Also, the M2-G type allows direct wall installation with NZM line cantilevers. M2-G 50/100 and M2-G 100/100 are both available.



M2

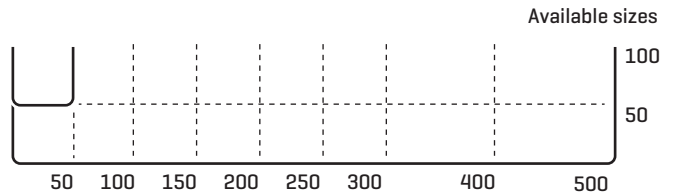


available surface finish options



MERKUR 2 wire mesh tray, M2 type

The MERKUR 2 standard has been the leading wire mesh tray system in the Czech Republic for several years. Its unique and proven design [namely the double crossbeam and the shaped upper edge] is very popular with electrical assembly companies. It is used both for standard and for functional cable routes.



M2-G

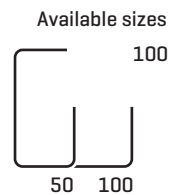


available surface finish options



MERKUR 2 wire mesh tray, M2-G type

This G-shaped mesh tray type is a remarkable yet simple solution for ceiling cable route installations. A standard DZM 12 wall bracket is required for such installation. The G-shape profile allows safe and unrestricted cable insertions avoiding the use of threaded rods.



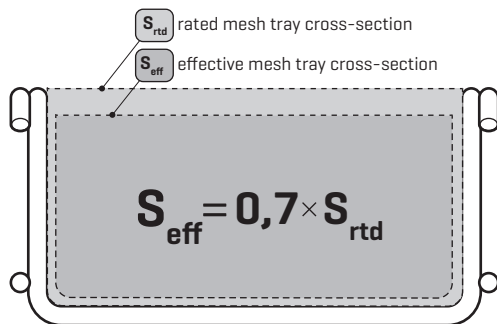
All MERKUR 2 mesh tray types [the standard M2 and the M2-G] share the same system of accessories: couplers, brackets, hangers, etc. This means they are fully combinable, they may be juxtaposed side by side or lengthwise in a particular cable route. Moreover, all the key benefits of a wire mesh tray are kept: flexibility, and simple and efficient installation.

DETERMINING THE SUITABLE TRAY SIZE

There are two crucial parameters to determine the right mesh tray size. The total number of cables to be put in a mesh tray is represented as the total sum of the nominal sections of all cables to be placed in the tray [see below]. The second parameter is represented by the effective mesh tray cross-section.

Utilisable mesh tray cross-section

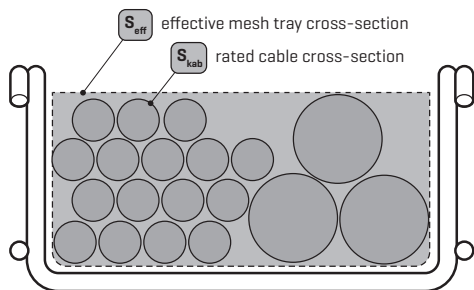
The utilisable mesh tray section is a value defining the sum of the sections of all cables that can be carried by a given mesh tray, plus a certain safety reserve. The safety reserve is intended, e.g., to cope with the increased need for space at the points of route bending, with less efficient utilization of the existing room if quite a number of cables are carried in one single track, and it also accounts for possible further wishes to add some new cabling to the cable route, plus similar issues that can occur later on.



Every tray is defined by its effective cross-section value, which helps to calculate the cable route in accordance with the presumed number of cables of a particular diameter in each layer.

Necessary cross-section S_{tot}

The section is defined as the total sum of the nominal sections of all cables to be placed in a cable route. Our indicative tables containing sections of the most frequently used cables are meant as an aid in determining the section of individual mesh trays. They are merely informative; for accurate data that you may need for your calculations, please consult the manufacturer of the cabling you intend to use. Compare the calculated value of the required tray section (S_{tot}) with the values of the effective mesh tray sections (S_{eff}) and find the appropriate one - its value is the same or higher than the required tray section (S_{tot}).



$$\text{total of cable sections} \leq S_{eff}$$

total section of cables per mesh tray

shall not exceed the effective mesh tray section

At the same time, the purpose of the route and cooling system requirements should be taken into account and, accordingly, it is preferable to choose wider cable trays with some vacant space, i.e. lower filling rate. For better cooling it is also recommended to reduce the number of layers in which the cables are placed.

Parameters of most frequently used cables

	Cable type	Weight [kg/m]	Diameter [mm]	Section [mm ²]
CYKY cables (copper core)	2x1.5	0.105	8.1	51.50
	3x1.5	0.120	8.6	58.06
	4x1.5	0.150	9.3	67.89
	5x1.5	0.175	10.1	80.08
	7x1.5	0.225	11.0	94.99
	12x1.5	0.390	14.6	167.33
	2x2.5	0.140	8.9	62.18
	3x2.5	0.170	9.5	70.85
	4x2.5	0.210	10.3	83.28
	5x2.5	0.260	11.2	98.47
	7x2.5	0.340	12.2	116.84
	12x2.5	0.570	16.3	208.57
	2x4	0.215	10.6	88.20
	3x4	0.255	11.2	98.47
	4x4	0.315	12.2	116.84
	5x4	0.380	13.8	149.50
	7x4	0.485	15.0	176.63
	12x4	0.870	20.0	314.00
	2x6	0.260	11.6	105.63
	3x6	0.325	12.3	118.76
	4x6	0.405	13.8	149.50
	5x6	0.500	15.1	178.99
	4x10	0.645	16.1	203.48
	5x10	0.770	18.0	254.34
	4x16	0.925	18.6	271.58
	5x16	1.140	20.4	326.69
	4x25	1.360	23.8	444.66
	5x25	1.740	26.1	534.75
	3x35+25	1.780	26.2	538.86
	4x35	1.810	26.2	538.86
	5x35	2.240	28.8	651.11
	3x50+35	2.060	30.4	725.47
	4x50	2.590	31.3	769.06
	3x70+50	2.800	34.9	956.14
	4x70	3.510	35.8	1006.09
3x95+50	3.600	39.3	1212.42	
3x95+70	3.940	39.3	1212.42	
3x120+50	4.270	43.0	1451.47	
3x120+70	4.430	43.0	1451.47	
3x150+70	5.350	46.8	1719.34	
3x185+95	6.780	49.8	1946.83	
3x240+120	8.570	56.4	2497.05	
AYKY cables (aluminium core)	4x10	0.375	17.4	237.67
	5x10	0.433	18.8	277.45
	4x16	0.580	19.7	304.65
	5x16	0.600	21.3	356.15
	4x25	0.750	22.4	393.88
	5x25	0.880	24.4	467.36
	3x35+25	0.910	24.7	478.92
	4x35	0.940	24.7	478.92
	5x35	1.110	27.1	576.51
	3x50+35	1.220	28.9	655.64
	4x50	1.280	28.9	655.64
	3x70+50	1.560	32.2	813.92
	4x70	1.820	35.4	983.73
	3x95+70	1.750	39.3	1212.42
	3x120+70	2.060	43.0	1451.47
	3x150+70	2.460	46.8	1719.34
	3x185+95	3.010	49.8	1946.83
3x240+120	3.810	56.4	2497.05	
SYKY cables (telecommunications)	2x2x0.5	0.030	5.0	19.63
	3x2x0.5	0.035	5.5	23.75
	4x2x0.5	0.040	6.0	28.26
	5x2x0.5	0.055	7.0	38.47
	10x2x0.5	0.095	9.0	63.59
	15x2x0.5	0.110	10.5	86.55
	20x2x0.5	0.140	12.0	113.04
	25x2x0.5	0.175	13.0	132.67
	30x2x0.5	0.205	14.0	153.86
	50x2x0.5	0.310	17.0	226.87
	100x2x0.5	0.585	23.0	415.27
network cables	UTP 5e	0.031	5.0	19.63
	FTP 5e	0.040	6.2	30.18
	UTP 6	0.043	6.1	29.21
	FTP 6	0.055	7.4	42.99
	optical cables	2 vl 9/125	0.013	3.5
4 vl 9/125		0.013	3.6	10.17
8 vl 9/125		0.014	3.7	10.75
12 vl 9/125		0.014	3.8	11.34
24 vl 9/125		0.015	4.0	12.56

DETERMINING AND CHECKING THE CABLE ROUTE LOADING CAPACITY

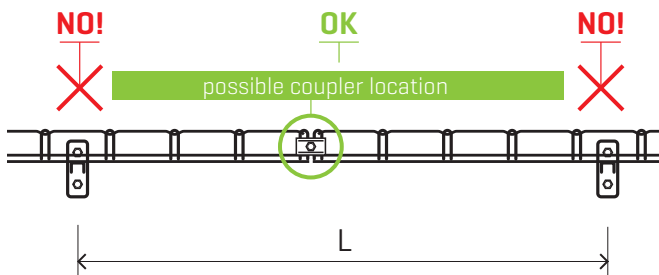
The position of a mesh tray connection with respect to the support points significantly affects the load capacity [mechanical strength] of a cable route. Ideally, a mesh tray connection ought to be located at 1/5 the distance of the support points spacing. In such case, the carrying capacity and the strength of the cable route achieve the best values.

On the contrary, mesh tray joints placed above the support point greatly reduce the load capacity and such mesh tray routes only achieve low load capacity. **Therefore, the mesh tray joints must not be placed directly above the support point!** In the light of field experience in assembling cable routes it is not always possible to achieve ideal positions of the joints. Hence we test our cable routes for universal joint placement, and verified features of cable routes are also available for arbitrary locations of the joint [this means the SZM 1 coupling placement can be anywhere but directly above the support points of the cable route].

There are two types of installation which influence the load capacity of a particular cable route - see the schemes below.

Standard assembly

[connection anywhere except for the support points]

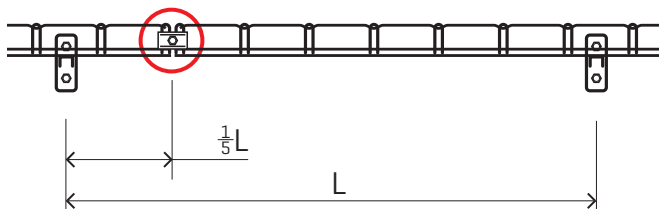


Such installation is considered standard as there are almost no restraints regarding the joint placement except for placement directly above the support point. Therefore, there is no need to shorten the mesh trays and waste is minimized.

Such assembly is suitable for standard mesh tray routes. With usual spacing of support points, this allows a higher load capacity than the effective mesh tray load [see the following chapters and load tables below].

Higher load capacity assembly

[connection located at 1/5 of the support points span]



Such assembly is quite demanding as the connection placement requires the mesh trays to be shortened, hence more waste and lower economic efficiency of the installation. This means such assembly is recommended for pathways with very high loads, or for difficult technical sections where a greater spacing of the support points is needed. **The load capacity is then considerably greater, up to twice the standard assembly figures.**

Mesh tray load control

The overall load of a cable route is the sum of the mass of all cables carried by the route, including all accessories suspended on the wire mesh cable trays. In other words, partitions and lids of cable routes, junction boxes, suspended lamps, etc., should also be included in this total. However, cables usually represent the prevailing load and it is possible to consider them alone.

To calculate the load with cables, the indicative values of weights of individual cable types and sizes can be used, as stated in the table "Parameters of most frequently used cables" [p. 10].

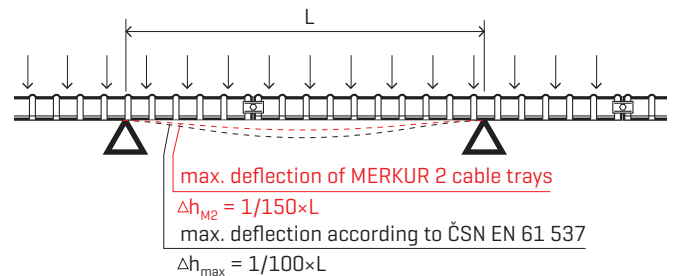
The calculated load capacity of the pathway should be compared with the maximum permissible values according to the certification of the given mesh tray size. In case the desired mesh tray load is higher than the allowed load for a particular tray size, a larger mesh tray may be used, allowing for a higher load even if its full cross-section is not used. The load charts also show the possibility to use a mesh tray with higher sides, allowing for a higher load.

When checking the cable route load, the assembly method should also be taken into account. **If the DZM 3/100, DZM 3/150, DZM 4 and DZM 6 holders are used to carry the mesh tray, it should be borne in mind that the assembly provides no support from the bottom as it is a suspension of the mesh tray using the upper edge wire. In such case the safety coefficient of 0.7 should be used for all values indicated in the tables and graphics on p. 13 and 14.**

Methods for determination of mesh tray mechanical strength

A mesh tray system must provide sufficient mechanical strength [load capacity and stiffness]. This is assessed according to the maximum deflection of a loaded track.

MERKUR 2 mesh trays have been tested for compliance with the EN 61537 ed. 2 standard. Samples of mesh tray routes were loaded gradually [in steps] up to the SWL load, which is the maximum load value for which the mesh tray deflection measured in the middle between the support points does not exceed 1/100 of the span. At the same time, the transverse deflection at each span must not exceed 1/20 of the sample width. The tested mesh tray samples were further loaded gradually to 1.7 times the SWL load whereas, according to the standard, the mesh tray shall not distort. If both conditions are met, the tested wire mesh cable tray will be issued the certificate.



Recommended mechanical strength figures [inferior to the norm] and max. allowed mechanical strength [in accordance with the norm] are shown [see tables on p. 13 and 14]. Their deflection does not exceed the value of 1/150 of the span between the support points. This means that **if the span, e.g., amounts to 2.000 mm, the absolute deflection value does not exceed 13 mm [whereas the standard allowed deflection is permitted to reach 20 mm!].**

Stiff mesh trays offer, among others, better performance for the cabling function, namely under extreme conditions. This advantage becomes evident, e.g., during fire resistance testing, where MERKUR 2 mesh trays achieve excellent results [see p. 64–70].

Currently, the load capacity figures (or load limits) presented by most mesh tray manufacturers and providers represent, in reality, the load limits with a low to zero safety coefficient. We now present our standard recommended load values with a higher safety reserve together with max. allowed load capacity of MERKUR 2 mesh trays to facilitate the comparison. For more details, please see the tables below.

Actual working load capacity

We dealt with load and load capacity in previous chapters, focusing on general cable route load with unspecified continuous load distribution. However, the installed cabling is quite specific by the cables being the only useful load of a cable route, except for special assembly types e.g., self-supporting cable routes with attached lighting in halls, etc. Such situations must be dealt with individually, taking into consideration all the specifics of each particular situation.

In general, the mesh tray load almost fully equals the weight of the cabling. Considering the effective tray cross-section and usual specific weight, the following data apply:

Parameters of most frequently used cables

Cable type		Weight [kg/m]	Diameter [mm]	Cross-section [mm ²]	Specific weight [kg/m/mm ²]
CYKY	3x1.5	0.120	8.6	58.06	0.00207
	5x1.5	0.175	10.1	80.08	0.00219
	3x2.5	0.170	9.5	70.85	0.00240
	5x2.5	0.260	11.2	98.47	0.00264
	5x4	0.380	13.8	149.50	0.00254
	5x6	0.500	15.1	178.99	0.00279
	5x10	0.770	18.0	254.34	0.00303
	5x16	1.140	20.4	326.69	0.00349
	3x35+25	1.780	26.2	538.86	0.00330
	3x50+35	2.060	30.4	725.47	0.00284
	3x70+50	2.800	34.9	956.14	0.00293
	3x95+70	3.940	39.3	1212.42	0.00325
	3x120+70	4.430	43.0	1451.47	0.00305
	3x150+70	5.350	46.8	1719.34	0.00311
3x185+95	6.780	49.8	1946.83	0.00348	
3x240+120	8.570	56.4	2497.05	0.00343	
AYKY	5x16	0.600	21.3	356.15	0.00168
	3x35+25	0.910	24.7	478.92	0.00190
	3x50+35	1.220	28.9	655.64	0.00186
	3x70+50	1.560	32.2	813.92	0.00192
	3x95+70	1.750	39.3	1212.42	0.00144
	3x120+70	2.060	43.0	1451.47	0.00142
3x240+120	3.810	56.4	2497.05	0.00153	

It follows that the cable specific weight does not exceed 0.0028 kg/m/mm². Only cables of large diameter with lower flexibility i.e., with greater self-support, reach a higher specific weight. The latter is also achieved as a consequence of larger diameter with lower effective mesh tray cross-section coefficient.

The data apply to the assembly load, as stated in previous chapters, and a particular cross-section of a mesh tray can only accommodate the appropriate number of cables of a certain weight that loads the cable route.

When these findings apply to effective cross-sections, the following table emerges. It describes the max. possible mesh tray load, loaded with cabling.

Cabling load with specific weight of 0.0028 kg/m/mm²

Mesh tray size	Effective cross-section [mm ²]	Cabling load capacity [kg/m]
M2 50/50	1320	3.7
M2 100/50	2900	8.1
M2 150/50	4470	12.5
M2 200/50	6050	16.9
M2 250/50	7620	21.3
M2 300/50	9200	25.8
M2 400/50	12350	34.6
M2 500/50	15500	43.4
M2 100/100	6120	17.1
M2 150/100	9440	26.4
M2 200/100	12770	35.8
M2 250/100	16090	45.1
M2 300/100	19420	54.4
M2 400/100	26070	73.0
M2 500/100	32740	91.7
M2-G 50/100	1320	3.7
M2-G 100/100	6120	17.1

It is thus obvious that the actual mesh tray load is relatively low. High load figures only occur with the largest tray dimensions. The actual load is max. 25 kg/m [for a mesh tray with 50 mm side rail], or 55 kg/m [for a mesh tray with 100 mm side rail].

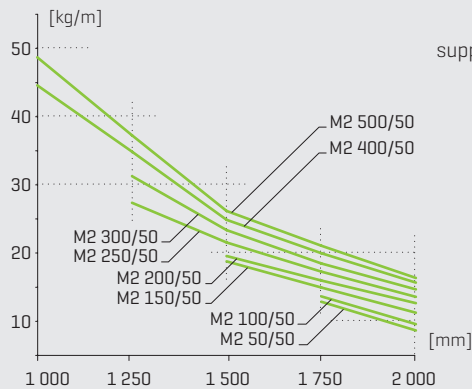
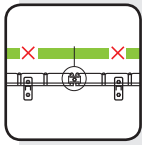
Consequently, it is obvious that standard cable routes, usually assembled in regular conditions, cannot reach their load limits.

Recommended maximum load

[figures set by the manufacturer, with safety margin]

cable trays with 50 mm sidewall

Standard assembly [connections anywhere except for the support points]

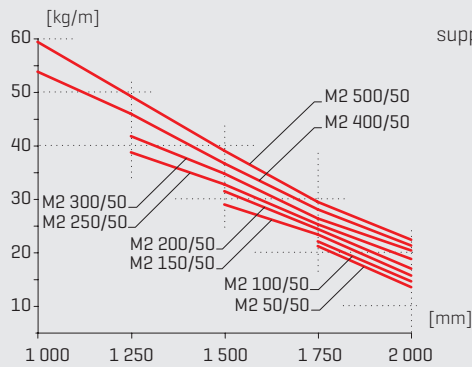
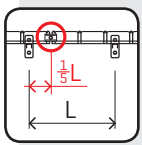


support point spacing [mm]

Recommended maximum load [kg/m]

	1000	1250	1500	1750	2000
M2 50/50	-	-	17.9	12.8	8.6
M2 100/50	-	-	18.4	13.6	9.5
M2 150/50	-	-	18.7	14.9	11.2
M2 200/50	-	-	19.5	15.9	12.6
M2 250/50	-	27.3	21.5	17.2	13.5
M2 300/50	-	31.2	23.3	18.4	14.6
M2 400/50	44.5	34.8	24.8	19.9	15.6
M2 500/50	48.6	37.2	26.1	21.0	16.3

Assembly with higher load limit [joint located at 1/5 of the support points span]



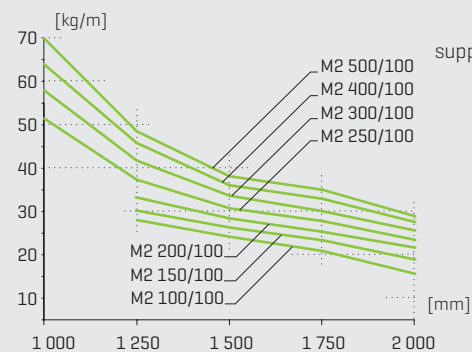
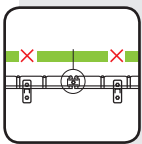
support point spacing [mm]

Recommended maximum load [kg/m]

	1000	1250	1500	1750	2000
M2 50/50	-	-	26.2	21.3	13.6
M2 100/50	-	-	27.3	22.2	14.7
M2 150/50	-	-	29.1	23.5	15.8
M2 200/50	-	-	31.6	24.5	17.1
M2 250/50	-	38.9	32.9	25.4	18.9
M2 300/50	-	41.9	34.9	26.5	20.5
M2 400/50	54.0	46.1	36.8	28.2	21.4
M2 500/50	59.6	49.4	39.2	29.6	22.5

cable trays with 100 mm sidewall

Standard assembly [connections anywhere except for the support points]

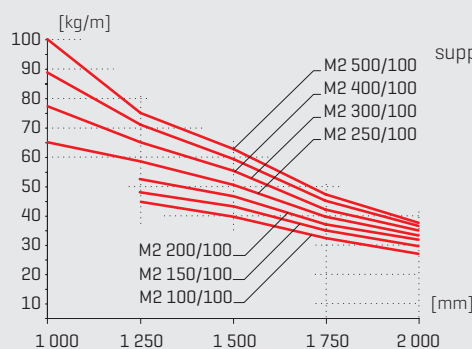
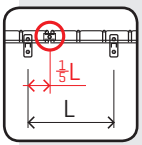


support point spacing [mm]

Recommended maximum load [kg/m]

	1000	1250	1500	1750	2000
M2 100/100	-	27.3	23.6	20.2	16.6
M2 150/100	-	39.2	30.9	24.8	20.5
M2 200/100	-	41.9	33.2	27.0	21.9
M2 250/100	52.6	44.1	35.5	28.9	23.2
M2 300/100	58.8	46.6	37.2	31.1	24.8
M2 400/100	63.5	51.8	42.6	33.5	26.7
M2 500/100	70.5	58.4	48.8	36.7	29.8

Assembly with higher load limit [joint located at 1/5 of the support points span]



support point spacing [mm]

Recommended maximum load [kg/m]

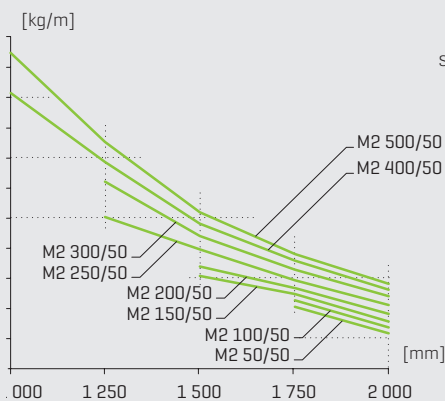
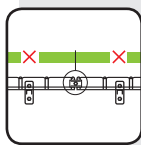
	1000	1250	1500	1750	2000
M2 100/100	-	45.2	39.2	33.2	27.5
M2 150/100	-	50.8	42.7	34.4	29.1
M2 200/100	-	53.8	45.5	35.7	30.4
M2 250/100	64.4	55.0	47.1	37.4	31.5
M2 300/100	71.3	56.8	48.2	39.8	32.6
M2 400/100	86.6	65.4	55.9	43.6	35.2
M2 500/100	101.2	75.5	63.1	47.1	38.5

Maximum permissible load

Maximum load values according to IEC 61537

cable trays with 50 mm sidewall

Standard assembly [connections anywhere except for the support points]

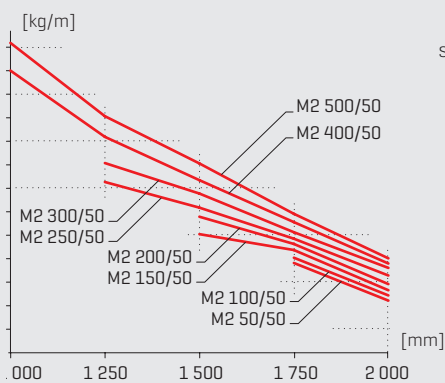
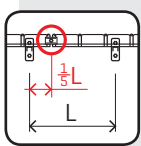


support point spacing [mm]

Recommended maximum load [kg/m]

support point spacing [mm]	1000	1250	1500	1750	2000
M2 50/50	-	-	18.2	14.8	10.6
M2 100/50	-	-	19.5	15.9	11.5
M2 150/50	-	-	19.7	16.3	12.1
M2 200/50	-	-	21.4	17.6	13.6
M2 250/50	-	29.5	23.8	19.1	16.0
M2 300/50	-	36.1	26.7	23.1	17.9
M2 400/50	52.5	39.6	29.1	24.2	18.1
M2 500/50	57.4	43.2	31.2	24.8	18.3

Assembly with higher load limit [joint located at 1/5 of the support points span]



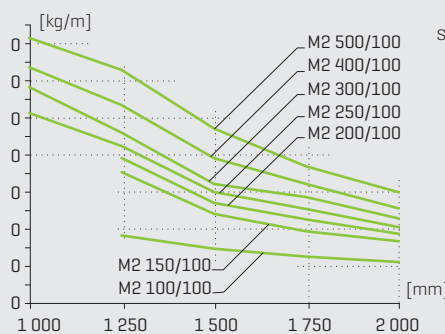
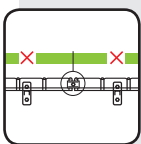
support point spacing [mm]

Recommended maximum load [kg/m]

support point spacing [mm]	1000	1250	1500	1750	2000
M2 50/50	-	-	29.2	24.6	16.8
M2 100/50	-	-	30.8	25.9	17.4
M2 150/50	-	-	30.7	25.8	17.9
M2 200/50	-	-	34.7	26.8	18.5
M2 250/50	-	42.0	36.4	28.3	22.4
M2 300/50	-	48.5	40.0	32.4	24.2
M2 400/50	65.3	52.5	43.2	34.4	24.9
M2 500/50	71.2	57.4	46.7	35.0	25.3

cable trays with 100 mm sidewall

Standard assembly [connections anywhere except for the support points]

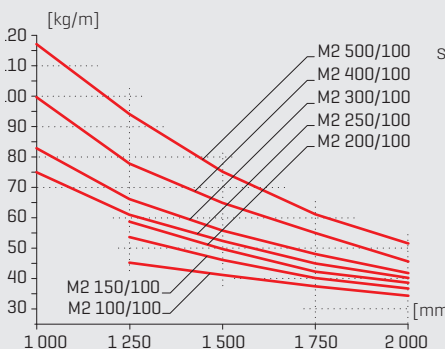
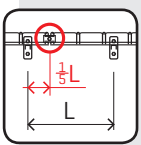


support point spacing [mm]

Recommended maximum load [kg/m]

support point spacing [mm]	1000	1250	1500	1750	2000
M2 100/100	-	32.2	27.3	23.4	19.3
M2 150/100	-	43.1	35.8	27.8	23.8
M2 200/100	-	46.3	38.5	30.6	25.4
M2 250/100	61.0	50.5	41.2	33.5	26.9
M2 300/100	66.4	58.2	44.9	38.4	30.8
M2 400/100	74.0	65.7	51.3	42.6	34.9
M2 500/100	81.4	73.2	56.6	47.5	39.3

Standard assembly [connections anywhere except for the support points]



support point spacing [mm]

Recommended maximum load [kg/m]

support point spacing [mm]	1000	1250	1500	1750	2000
M2 100/100	-	52.4	45.5	38.5	31.9
M2 150/100	-	58.9	49.5	39.9	33.8
M2 200/100	-	62.4	52.8	41.4	35.3
M2 250/100	74.7	63.8	54.6	43.4	36.5
M2 300/100	82.7	65.9	55.9	46.2	37.8
M2 400/100	100.9	76.9	64.8	50.6	40.8
M2 500/100	116.8	88.6	73.2	54.6	44.7

ANTICORROSIVE PROTECTION AND SURFACE FINISHES OF MERKUR 2 PARTS

The MERKUR 2 system is used in a wide range of environmental and climatic conditions. It is used in closed buildings with a stable climate as well as in outer spaces, challenged by adverse weather conditions. It is often installed in aggressive industrial and chemical environments, or in sensitive food processing operations.

Each of the above-stated environments and installations requires specific features - durability, chemical stability or sanitary standards. Considering the fact that almost all MERKUR 2 parts are made of steel [wire and sheet], it is suitable and, in most cases, indispensable to apply an appropriate finish. It ensures chemical stabilization of the metal surface and enhances functionality and aesthetic qualities.

The right choice of finish ensures long-term performance of coated parts and economic efficiency of wire mesh tray systems in all types of environment: office buildings, sewage treatment plants, underground parking, chemicals, food processing or nuclear plants.

MERKUR 2 surface treatment

To protect the metal surface of MERKUR 2 parts, there are several options of zinc coating available. This treatment is the most commonly used surface finish for parts and systems nowadays. As an alternative to zinc coating, anticorrosive steel with various degrees of anticorrosive treatment may be used, possibly in combination with additional technologies of steel surface protection to increase its resistance.

Basic types of zinc coating surface treatment including various options

Galvanizing is the most widespread type of MERKUR 2 cable route surface treatment. This is due to very unaggressive environments in building interiors where MERKUR 2 is mostly installed. In general, zinc coating means covering the steel mesh tray surface with a continuous layer of zinc. This layer protects the mesh tray surface mechanically, but mainly chemically. Even if the zinc surface is locally damaged, corrosion occurs only in the zinc layer and the steel remains protected until the zinc layer is dissolved. There are several alternatives to zinc plating available: electrolytic [galvanizing], cold-rolling of sheets [pre-galvanizing] and hot-dip-galvanizing. Each type has its typical zinc layer thickness which is crucial for the degree of surface resistance of the protected steel. A direct proportion rule applies for the layer thickness and resistance, which is due to natural physical and chemical zinc loss from the protective coat. The loss rate is influenced by the aggressiveness of the particular environment.

Natural zinc loss due to environmental impact

Outdoor environment	0.8 - 1.0 µm/year
Industrial environment	1.5 - 3.5 µm/year
Medium corrosive and aggressive environment	2.0 - 5.0 µm/year
Extreme corrosive and aggressive environment	5.0 - 10.0 µm/year

The above-stated empirical data and the type of environment where a particular metal part is installed define the necessary zinc layer thickness to protect the surface and to achieve the expected lifespan.

Electro-galvanizing

GZ
electro-galvanized



Electro-galvanizing refers to an electrochemical process where zinc [the anode] is applied on electrically conductive material - steel and metal components in this case [the cathode]. The thickness of such layer is 12 - 15 µm. The coating applied by this technology is glossy and resembles chromium plating. To enhance the corrosion resistance of zinc a chromium agent of various shades is used. However, neither colour nor gloss can impact the quality of the zinc layer.

Electro-galvanizing surface treatment is mostly used in non-aggressive environments of dry interiors. Exceptionally, it may be used in damp interiors or outside [under a shelter] if the serviceable life is expected to be shorter.

Pre-galvanizing

SZ
Pre-galvanized



This method is a surface treatment of cold-rolled steel sheet passing through a zinc dipping bath. This technology forms a continuous zinc layer on the steel plate within the range of 17 - 23 µm. Such protective layer [in terms of its thickness and quality] is comparable to the electro-galvanizing method, thus it is used in similar environment. As regards coating technology, the pre-galvanizing zinc plating process is less demanding, thus more suitable for large-area application. In practice, a metal sheet first receives the zinc treatment and is then used for particular parts manufacture, e.g., tray covers.

Hot-dip-galvanizing

ZZ
hot-dip-
galvanized



Hot-dip-galvanizing is a process of coating steel components with zinc (after removing grease, pickling, etc.) which alloys with the surface of the base metal when the metal is immersed in a bath of molten zinc at a temperature of around 440 – 460 °C. The thickness of the formed layer varies between 40 – 60 µm. Zinc creates a solid and impermeable coat with long service life. Thanks to the metallurgic reaction between the zinc and steel, hot-dip-galvanizing is the only technology that ensures permanent protection against corrosion.

Hot-dip-galvanized MERKUR 2 parts are the most universal ones for both wet and dry environments, for indoor and outdoor installation and, to some degree, they are suitable for the chemicals industry. However, this surface treatment presents an aesthetic downside. Wire mesh trays with hot-dip-galvanizing finish show natural surface oxidation after a period of time, which results in the zinc surface becoming dull. This phenomenon is not considered a defect of the surface treatment and does not affect zinc layer functionality. It is solely a natural oxidation of the zinc layer, being thus chemically stabilized.

Stainless steel MERKUR 2 parts and options

Stainless steel is a completely different anticorrosive strategy. Such parts are made of steel which is stabilized (in terms of anticorrosion) by adding chromium, nickel or other elements. As regards chemical stability, the stainless steel line represents the top line of MERKUR 2 mesh trays. There are two options: standard production using austenitic stainless steel AISI 304 [A2] or AISI 316 L [A4] manufactured on demand.

A2 – stainless steel [AISI 304L]

A2
stainless
AISI 304L



A2 stainless steel is the most widely used corrosion-resistant steel on the market, with quite low carbon content, which leads to higher

resistance to intercrystalline corrosion. It has perfect cold ductility with good welding results. It is easy to bow and to flex, and to polish, and it can be exposed to temperatures up to 350 °C. AISI 304 has excellent resistance, especially to water, vapour, air humidity, edible acids, weak organic and inorganic acids.

MERKUR 2 mesh trays A2 are used in the food processing, chemicals, dairy and wine industries, in breweries, in the cosmetics and pharmaceuticals industries.

A4 – stainless steel [AISI 316L]

A4
stainless
AISI 316L



A4 stainless steel is chromium-nickel-molybdenum steel, resistant to acid, where the molybdenum enhances the corrosion resistance. It is perfectly suitable for welding, which is a crucial requirement for mesh tray manufacturing, but unlike A2 stainless steel, A4 is hard for machine tool operations. It can be exposed to temperatures up to 400 °C and polishing results in high gloss of the material. MERKUR 2 mesh trays made of this custom-ordered steel are used in the pharmaceuticals, chemicals and food processing industries (if minimal food contamination is required). Further quality, aesthetic and surface resistance enhancement may be applied with both A2 and A4 by pickling and passivation.

Stainless steel pickling and passivation

are technologies which improve up to 4 fold the anticorrosive qualities of stainless steel. First, there is chemical pickling to perfectly remove all surface grease and mechanical dirt. At the same time, the steel surface becomes matt and unified. The subsequent passivation (chemical process in oxidation acid followed by drying) enhances the corrosion resistance of stainless steel parts, especially at weld points in a humid environment with chloride present.

MERKUR 2 connecting material surface treatment

The MERKUR 2 line consists, among others, of connecting parts such as bolts, nuts, washers, etc. There is a basic rule for anti-corrosion protection – all mesh tray connecting parts and all assembly parts used must be of the same or higher anticorrosion protection quality. Obviously, it is possible to install a GZ cable route using A2 connecting material, but this is rather ineffective. Therefore, the MERKUR 2 system offers connecting material of the same anticorrosive degree as the main parts. The connecting material is usually provided with GZ or stainless steel finish. Recently, a modern anticorrosive protection method called Geomet has become available.



The GEOMET 500 finish, with its typical silvery grey surface, has been developed for anticorrosion protection of connecting accessories. Even a very thin layer [5 – 7 µm] shows very high resistance to corrosion. Surfaces treated in this way withstand more than 600 hours in a salt chamber, which is 3 times better than electro-galvanizing. Geomet has broad applications, e.g. in the automotive industry, where it complies with demanding technical requirements.

The anticorrosion protection level of Geomet-treated accessories basically equals the hot-dip-galvanizing method. Therefore, Geomet is the perfect choice for such cable routes.

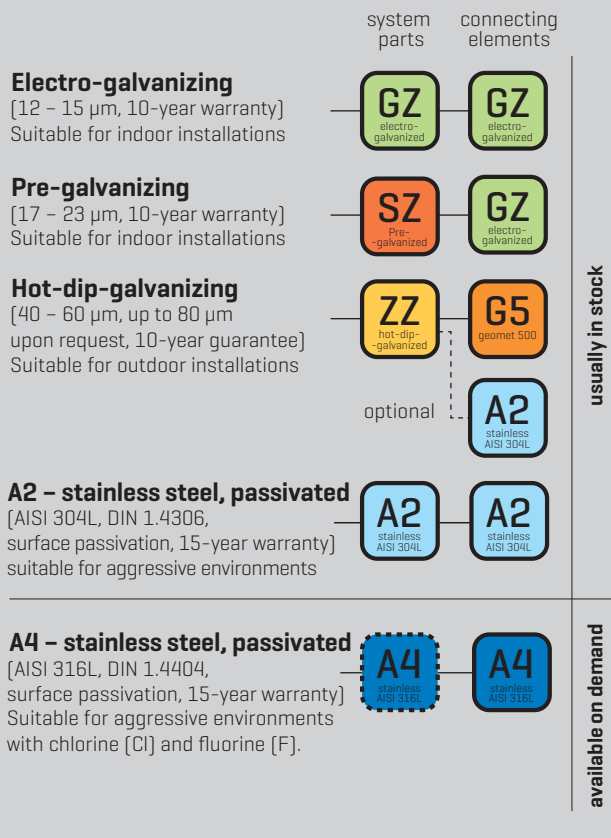
Considering the above-stated information, for all cable routes the right choice of surface finish is crucial in terms of lifetime, functionality and aesthetic qualities. If these were neglected, MERKUR 2 would hardly have become the most widespread mesh tray system in the Czech Republic. In fact, its name has become a synonym for wire mesh trays.

10-year extended warranty

Ten years of experience with MERKUR 2 cable routes represent an assessment which had led to endurance tests, fire, seismic and corrosion resistance tests all being successfully passed.

Consequently, we are pleased to extend the warranty, which is now at least 10 years. It covers material, welds and surface finish [providing the surface finish is suitable for the particular environment where the MERKUR 2 system has been installed]. For more details and recommendations regarding the surface finish warranty, please refer to the table below.

MERKUR 2 surface finish options



Warranty and recommendation for surface finish choice

warranty on material, welds and surface finish		extended warranty 10 years			15 years	
		Electro-galvanized GZ	Pre-galvanized SZ	Hot-dip-galvanized ZZ	Stainless AISI 304L A2	Stainless AISI 316L A4
interior	dry	recommended	recommended	redundant quality	redundant quality	redundant quality
	humid	restricted use	restricted use	recommended		
exterior	sheltered	unsuitable	unsuitable	recommended	recommended	recommended
	open			recommended		
chemicals and food-processing industries		unsuitable	unsuitable	unsuitable	recommended	recommended
environment with chorine [Cl] and fluorine [F]					unsuitable	recommended

This table is intended for informative purposes only. When choosing a suitable surface treatment of MERKUR 2 cable trays, the respective report on environmental effects should be taken into account. Such report forms an integral part of the project documentation for the particular implementation.

ARKYS - OFFICE, PRODUCTION AND LOGISTICS



ARKYS s.r.o. is a Czech company, established in 1997, currently with more than 80 employees. It has become the prime manufacturer and supplier of wire mesh trays in the Czech Republic. Its successful activity on the market comprises exceptional effort, logistics growth and development of the manufacturing process itself. Lately, the production plant and warehouse have considerably expanded. Modern production and assembly lines have been installed and the warehouse capacity and logistics process are now optimized to answer our customers' needs.



Main office

ARKYS moved to a new office building in the administrative center AREAL SLATINA in January 2017. Company management, the sales department, logistics, marketing and finances are now located here. The premises offer excellent opportunities for business activity, logistics coordination and improved customer service, all that with the contribution of our new colleagues.



Manufacture - MERKUR 2 assembly line

Our production of wire mesh trays and accessories does not depend on any subcontractors which is a crucial advantage. We benefit from our own technology, our own production plant with experienced staff, together with our own galvanic plant for electro-galvanizing.



provides direct current without any induction losses, thus delivering fast and precisely defined amounts of energy to the point of the weld joint. Enabling very dynamic regulation of the welding process, it also affects the final quality of the weld joint. This method is very speedy [the duration of the welding cycle is in the order of milliseconds]. The surrounding material does not warm up, which significantly reduces losses, additional tensions and material distortion during the cooling down period.

Mesh tray accessories [brackets, holders, straight brackets...] are produced using a high-speed FeiCut CNC fibre laser and a high-performance Mitsubishi electric industrial robot. Thanks to these machines, we are flexible regarding customers' requests - as regards exact dimensions of products or higher production capacity.

For MERKUR 2 mesh tray manufacture we use a fully automated production line, the LKZ 750. The production line machines and operating software are provided by Bosch Rexroth Electric Drives and Controls GmbH. Among others, it uses the latest technology of medium-frequency welding, widely used in the automotive industry. This modern and sophisticated welding method needs no accessory material, unlike "classic" low-frequency welding. Its other features also make this method superior to the classic one: the welding transformer, supplied over a medium-frequency converter,





Production – electro-galvanizing plant

Once manufactured, steel mesh trays and accessories are subjected to surface finish treatment. ARKYS produces and sells electro-galvanized, pre-galvanized and hot-dip-galvanized wire mesh cable trays and accessories. Stainless steel AISI 304L and 316L [with passivation] finishes are also available. Electro-galvanizing takes place on our own premises, the galvanic plant being one of the most ultra-modern, large-capacity lines in the Czech Republic. Electro-galvanizing is the most frequently used mesh tray surface treatment, mostly due to the fact that such wire mesh trays are usually installed in non-aggressive environments of building interiors where electro-galvanizing finish shows most benefits [for more details, please refer to p. 15 – 17 “Anticorrosive protection...”]. Hot-dip-galvanizing is contracted out by our external long-term partner. Stainless steel wire mesh trays are made of chromium-nickel austenitic steel [AISI 304L and 316L]. As the final treatment, stainless products receive additional protection called passivation, which makes the surface homogenous and enhances its anticorrosive qualities.



Warehouse

Considering our long-term sales policy and company philosophy [we prefer to have MERKUR 2 products in stock], we decided to enlarge our warehouse. We were also motivated by our clients’ call for rapid deliveries. If all surface finish options are taken into consideration, it is obvious that all wire mesh trays and accessories require more than 1800 pallet positions, which are now available in the ARKYS warehouse.

A “rolling shelf” system has been installed to make the process more effective and organized. These improvements help us to dispatch orders with no delay nor disruption of the scheduled production plan.



To sum up, ARKYS s.r.o. represents a complex partnership for all our customers - wholesale, assembly crews, architects; from business solution proposals to final material delivery.


PAVUS, a.s.
Autorizovaná osoba 216
Prosecká 41274, 190 00 Praha 9 - Prosek
Rozhodnutí o autorizaci č. 3/2018 ze dne 24. října 2018

CERTIFIKÁT VÝROBKU

č. 216/C5a/2020/0032

vydaný pro
výrobce:
ARKYS, s.r.o., Tuřanka 1519/115a, Slatina, 627 00 Brno, IČO: 25321366
místo výroby:
ARKYS, s.r.o., Uhřetice 287, 696 34 Uhřetice
stát původu výrobku:
Česká republika

V souladu s ustanovením § 5a nařízení vlády č. 163/2002 Sb., kterým se stanoví technické požadavky na vybrané stavební výrobky, ve znění nařízení vlády č. 312/2005 Sb. a nařízení vlády č. 215/2016 Sb. (dále jen „nařízení vlády č. 163/2002 Sb.“), Autorizovaná osoba 216 potvrzuje, že u stavebního výrobku:

Drátěné kabelové žláby MERKUR 2, typ M2, M2-G, M2-R
Nosné kabelové systémy pro kabelové trasy se zachováním funkčnosti v podmínkách požáru

provedla podklady předložené výrobcem, provedla počáteční zkoušku typu výrobku na vzorku, provedla počáteční prověrku v místě výroby, posoudila systém řízení výroby výrobků výrobcem a zjistila, že uvedený výrobek splňuje požadavky stanovené technickými předpisy, které souvisejí se základními požadavky vyjma uvedeného nařízení vlády uvedenými ve Slavném technickém osvědčení č. S-216/C5a/2020/0032 ze dne 3. března 2020 vydané Autorizovanou osobou 216 s platností do 31. března 2023 (dále jen „STO“).

Autorizovaná osoba 216 zjistila, že systém řízení výroby výrobků výrobcem odpovídá příslušné technické dokumentaci a zabezpečuje, aby výrobky vyrobené na fin. správný požadavky stanovené ve slavném uvedeném stavebním technickém osvědčení a odpovídaly technické dokumentaci podle § 4 odst. 3 vyše uvedeného nařízení vlády.

Nedílnou součástí tohoto certifikátu je Protokol o certifikaci č. P-216/C5a/2020/0032 ze dne 6. března 2020. Který obsahuje závěry zjišťování, ověřování, výsledky zkoušek a základní popis certifikovaného výrobku, nezbytný pro jeho identifikaci.

Tento certifikát zůstává v platnosti po dobu, po kterou se požadavky stanovené ve stavebním technickém osvědčení, na které byl uveden odkaz, nebo výrobní podmínky v místě výroby a systém řízení výroby výrobků výrobcem výrazně nezmění, nebo pokud Autorizovaná osoba tento certifikát reviduje nebo neztvrdí.

Tento certifikát nahrazuje a ruší Certifikát č. 216/C5a/2019/0139 ze dne 25.11.2019, vydaný AO 216.

Autorizovaná osoba 216 provádí nejméně jedenkrát za 12 měsíců dohled nad řádným fungováním systému řízení výroby u výrobce a posuzuje, zda vlastnosti výrobku odpovídají stavebnímu technickému osvědčení podle ustanovení §5a odst. 2 vyše uvedeného nařízení vlády.

O vyhotovení dohledu vydá autorizovaná osoba zprávu, kterou předá výrobcí.

V Praze dne 6. března 2020


Ing. Jaroslav Dufek
ředitel PAVUS, a.s. – AO 216

Posuzované vlastnosti certifikovaného výrobku jsou uvedeny na druhé straně tohoto certifikátu.


PAVUS, a.s.
Autorizovaná osoba 216
Prosecká 41274, 190 00 Praha 9 - Prosek
Rozhodnutí o autorizaci č. 3/2018 ze dne 24. října 2018

Zakázka č.: Z220200003 Počet stran: 7
Výtisk č.: 1

PROTOKOL O CERTIFIKACI

č. P-216/C5a/2020/0032

vydaný Autorizovanou osobou 216 jako nedílná součást certifikátu výrobku č. 216/C5a/2020/0032 ve smyslu § 10 zákona č. 22/1997 Sb., o technických požadavcích na výrobky a o změně a doplnění některých zákonů, ve znění zákona č. 71/2000 Sb., zákona č. 102/2001 Sb., zákona č. 205/2002 Sb., zákona č. 226/2003 Sb., zákona č. 277/2003 Sb., zákona č. 186/2005 Sb., zákona č. 229/2006 Sb., zákona č. 481/2008 Sb., zákona č. 281/2009 Sb., zákona č. 400/2009 Sb., zákona č. 155/2010 Sb., zákona č. 342/2011 Sb., zákona č. 100/2013 Sb., zákona č. 64/2014 Sb., zákona č. 91/2016 Sb., zákona č. 183/2017 Sb. a zákona č. 265/2017 Sb. a § 5a nařízení vlády č. 163/2002 Sb., kterým se stanoví technické požadavky na vybrané stavební výrobky, ve znění nařízení vlády č. 312/2005 Sb. a nařízení vlády č. 215/2016 Sb. (dále jen „nařízení vlády č. 163/2002 Sb.“). Obsahuje závěry zjišťování, ověřování, výsledky zkoušek a identifikaci certifikovaného výrobku.

1 NÁZEV CERTIFIKOVANÉHO VÝROBKU

Drátěné kabelové žláby MERKUR 2, typ M2, M2-G, M2-R
Nosné kabelové systémy pro kabelové trasy se zachováním funkčnosti v podmínkách požáru

Výrobek spadá do přílohy č. 2 k nařízení vlády č. 163/2002 Sb., skupina výrobků 10 poř. č. 17

Výrobce: ARKYS, s.r.o., Tuřanka 1519/115a, Slatina, 627 00 Brno, IČO: 25321366
Místo výroby: ARKYS, s.r.o., Uhřetice 287, 696 34 Uhřetice



СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р
ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ РОСС СЗ.НА34.Н05296
Срок действия с 04.06.2018 по 03.06.2021
№ 0191554

ОРГАН ПО СЕРТИФИКАЦИИ RA.RU.11HA24

Орган по сертификации продукции ООО "Бета" Адрес: 248033, РОССИЯ, Калининская область, Калуга, Первый академический проезд, дом 5, корпус 1Д, Телефон: 8-909-356-1455, адрес электронной почты: beta.info@yandex.ru

ПРОДУКЦИЯ Кабельные проволочные лотки т.м. MERKUR 2, в т.ч. несущие и монтажные элементы. Серийный выпуск.

КОД ОК
27.90.11.000

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ

Синификации изготовителя КОД ТИ ВЭД
7326 90 600 0

ИЗГОТОВИТЕЛЬ ARKYS s.r.o. Адрес: ЧЕШСКАЯ РЕСПУБЛИКА, Tuřanka 115a, Brno-Slatina 627 00, телефон/факс: +420 601 085 093, адрес электронной почты: medlova@arkys.cz.

СЕРТИФИКАТ ВЫДАН ARKYS s.r.o. Адрес: ЧЕШСКАЯ РЕСПУБЛИКА, Tuřanka 115a, Brno-Slatina 627 00, телефон/факс: +420 601 085 093, адрес электронной почты: medlova@arkys.cz.

НА ОСНОВАНИИ Протокол испытаний № 001/L-07/05/18 от 04.06.2018 года, выданный Испытательной лабораторией «Тест-Эксперт» (Аттестат аккредитации № РОСС RU.31578.040.ЛНО.11/03 от 09.01.2017 года по 09.01.2020).

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ

Связь сертификации: 3

Руководитель органа: М.П. А.Н. Золотов
Эксперт: А.А. Белаяни

Сертификат не применяется при обязательной сертификации

Compliance certificate GOST R, authorizing imports and installations of the M2 system on the territory of the Russian Federation.

 **Technický a zkušební ústav stavební Praha, s.p.**
Technical and Test Institute for Construction Prague

Autorizovaná osoba 204 - Notified Body 1020 - Zkušební laborator' - Certification Body - Inspekční orgán - Kvalifikační orgán
Authorized Body 204 - Notified Body 1020 - Test Laboratory - Certification Body - Inspection Body - Qualification Body

Pobočka: Brno Výtisk číslo: 1

Protokol o zkoušce

Protokol číslo: 060-031848 ze dne: 23.3.2010
Zakázka číslo: Z 060100041 ze dne: 26.2.2010

Výrobek: Kabelové žláby
Typ/varianta: MERKUR 2

Žadatel / zákazník: ARKYS s.r.o.
Adresa: Podstránská 1, 627 00 Brno, Česká Republika

Evidenční číslo vzorku: 100/10/1-33

Osoba odpovědná za obsah tohoto protokolu - vedoucí zkušební laboratoře:





Ing. Jarmila Malíková

Tento protokol byl vyhotoven ve dvou výtiscích. První originál náleží zákazníkovi, druhý je archivován spolu s další dokumentací v TZUS.
Tento protokol může být reprodukován jedním celým, jinak s písemným souhlasem vedoucí zkušební laboratoře.
Výsledky zkoušek a měření uvedené v tomto protokolu se týkají jen zkoušených předmětů.

1140
Technický a zkušební ústav stavební Praha, s.p. Technical and Test Institute for Construction Prague
Pobočka Brno Branch Brno
Hávkovského 77 Hávkovského 77
617 00 Brno - Konec 617 00 Brno - Konec
Česká republika Czech Republic




☎ 543420831, 3 operator
✉ 543420889, ATL manager
☎ +420543211591
✉ e-mail: malik@agus.cz

Load test protocol of the MERKUR 2 system.

 VOP-026 Šternberk, s.p. lokalita Vyškov s certifikovaným systémem jakosti dle ČSN EN ISO 9001		Číslo úkolu/ zakázky: AZ160726 Číslo protokolu: 7250-122/2011 Výřisek číslo: 1 Počet listů: 3 Počet příloh: 0
  Odbor zkoušení techniky – zkušební laboratoř č.1103 akreditovaná ČIA dle ČSN EN ISO/IEC 17025 ZKUŠEBNA EB		
PROTOKOL O ZKOUŠCE ELEKTRICKÉ KONTINUITY		
Jméno a adresa zadavatele (zákazníka): Arkys, s.r.o., Podstránská 1, 627 00 Brno		
Identifikace zkoušeného předmětu: Kabelové žlaby MERKUR 2, LINEAR 1, LINEAR 2 Výrobní číslo: - Výrobce: Arkys, s.r.o., Podstránská 1, 627 00 Brno Technická dokumentace: -		
Datum přijetí do zkoušky: 10. 11. 2011	Metoda zkoušení: ČSN EN 61537 ed. 2: 2007	
Datum a místo provedení zkoušky: 10. 11. 2011 Zkušebna elektrické bezpečnosti	Vedoucí zkoušky: Ing. František Dostál	Zkoušku provedl: Ing. František Dostál Ing. Jiří Vlček
Datum vydání protokolu: 11. 11. 2011	Kontroloval a schválil vedoucí zkušebny: Ing. František Dostál	
Výsledky zkoušky: Výsledky dílčích zkoušek jsou uvedeny na dalších stranách tohoto protokolu.		
ADRESA: VOP-026 Šternberk, s.p. Odbor zkoušení techniky V. Nejedlého 691 682 03 VYŠKOV		
Telefon: 517 303 601 Fax: 517 303 605 E-mail: prikryli@vop.cz		

Výsledky zkoušky se týkají jen zkoušeného předmětu. Bez písemného souhlasu zkušební laboratoře se nesmí protokol reprodukovat jinak, než celý.

Test Protocol of Electrical Continuity
 [measuring transition resistance]

 VOP-026 Šternberk, s.p. lokalita Vyškov s certifikovaným systémem jakosti dle ČSN EN ISO 9001		Číslo úkolu/zakázky: AZ160632 Číslo protokolu: 7240-541/2011 Výřisek číslo: 1 Počet listů: 16 Počet příloh: --
  Odbor zkoušení techniky – zkušební laboratoř č.1103 ZKUŠEBNA EMC		
PROTOKOL O ZKOUŠCE ELEKTROMAGNETICKÉHO ÚTLUMU		
Jméno a adresa zadavatele: Arkys, s.r.o. Podstránská 1 627 00 Brno		
Identifikace zkoušeného předmětu: Kabelový žlab Merkur 2 (500/100) Kabelový žlab Merkur 2 (500/50) Kabelový žlab Linear 1 (500/100) Kabelový žlab Linear 2 (500/100) Výrobní číslo: Vzorový Výrobce: Arkys, s.r.o. Podstránská 1; 627 00 Brno Technická dokumentace: Nedořada		
Metoda zkoušení: Měření elektromagnetického útumu dle požadavků zákazníka (poměrová metoda, viz kap. 4)		
Datum přijetí do zkoušky: 30.09.2011	Vedoucí zkoušky: Ing. Milan Rýděl	
Datum a místo provedení zkoušky: 30.09.2011 Semianečnická hala EMI, Vyškov	Zkoušku provedl: Ing. Jaroslav Tesar	
Datum vydání protokolu: 13.10.2011	Kontroloval a schválil vedoucí zkušebny: Ing. Vladimír Váňa	
Výsledky zkoušky: Výsledky zkoušky jsou uvedeny na dalších stranách protokolu Uvedená rozšířená nejistota měření je součinem standardní nejistoty měření a koeficientu rozšíření $K=2$, což pro normální rozdělení odpovídá pravděpodobnosti pokrytí asi 95%.		
Adresa: VOP-026 Šternberk, s.p. OZT – ZL č. 1103 V. Nejedlého 691 682 03 VYŠKOV		
Telefon: +420 517 303 564 Fax: +420 517 303 605 E-mail: tesar.j@vop.cz		

Výsledky zkoušek se týkají jen zkoušeného předmětu v sestavě uvedené v kapitole 3. Bez písemného souhlasu zkušební laboratoře se nesmí protokol reprodukovat jinak, než celý.

Protocol of the EMC test
 of the MERKUR 2 system

 INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a.s. zkušební laboratoř elektrických výrobků Sokolovská 573 686 01 Uherské Hradiště		Číslo protokolu: 5145/11 Počet výřisek: 2 Číslo výřisek: 2
ZKUŠEBNÍ LABORATOŘ č. 1004.3 akreditovaná Českým institutem pro akreditaci, o. p. s.		
ZKUŠEBNÍ PROTOKOL o zkoušce odolnosti povrchové ochrany systémů MERKUR 2, LINEAR		
		
Měřič/technik a autor protokolu: Jakub Procházka	Vedoucí zkušební laboratoře: Ing. Pavel Vávra	
Datum vydání: 28. 11. 2011 Rozdělovník: Divize 4 Elektró Arkys, s.r.o.	výřisek č. 1 výřisek č. 2	
		Počet listů: 8 Počet příloh: 0

Protocol of the surface finish resistance test
 of the MERKUR 2 system

 Vojenský technický ústav, s.p. s certifikovaným systémem jakosti dle ČSN EN ISO 9001		Číslo úkolu/ zakázky: 15-19-2-93-201 Číslo protokolu: 194200-150/2015 Výřisek číslo: / Počet listů: 25 Počet příloh: -
  Úsek zkoušení techniky – zkušební laboratoř č.1103 akreditovaná ČIA dle ČSN EN ISO/IEC 17025 ZKUŠEBNA SPECIÁLNÍCH MĚŘENÍ		
PROTOKOL O ZKOUŠCE SEIZMICKÉ ZPŮSOBILOSTI		
Jméno a adresa zadavatele (zákazníka): ARKYS, s.r.o., Podstránská 1, 627 00 Brno, Česká republika		
Identifikace zkoušených předmětů: Kabelové nosné systémy MERKUR 2 Výrobní číslo: přesná identifikace viz 2-10. strana protokolu Výrobce: ARKYS, s.r.o., Podstránská 1, 627 00 Brno, Česká republika		
Datum přijetí do zkoušky: 13.04.2015 06.07.2015	Metoda zkoušení: ČSN IEC 980: 1993, čl. 8	
Datum a místo provedení zkoušky: 16., 17., 27., 28.04.2015 8., 9., a 10.07.2015 Zkušebna speciálních měření	Vedoucí zkoušky: Ing. Jiří Leník	Zkoušku provedl: Ing. Jiří Leník
Datum vydání protokolu: 31.08.2015	Kontroloval a schválil vedoucí zkušebny: Ing. Ivan ŠTUCHAL	
Výsledky zkoušky: Zkoušený předmět byl podroben zkoušce seizmické způsobilosti. Výsledky zkoušek jsou uvedeny v protokolu. Uvedená rozšířená nejistota měření je součinem standardní nejistoty měření a koeficientu rozšíření $K=2$, což pro normální rozdělení odpovídá pravděpodobnosti pokrytí asi 95 %.		
ADRESA: Vojenský technický ústav, s.p. odštěpený závod VTÚPV ÚZT – ZL č. 1103 Vito Nejedlého 691 682 01 VYŠKOV		
Telefon: 517 303 623 Fax: 517 303 605 E-mail: ivan.stuchal@vtusp.cz		

Výsledky zkoušek se týkají jen zkoušeného předmětu. Bez písemného souhlasu zkušební laboratoře se nesmí protokol reprodukovat jinak, než celý.

Seismic resistance test protocol
 of the MERKUR 2 system

PARTS CATALOGUE

COMPLETE LIST OF PARTS
AND THEIR FUNCTION

WIRE MESH CABLE TRAYS

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COVERS

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COUPLERS, CLAMPS

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HANGERS, FASTENERS...

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STRAIGHT BRACKETS

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RAIL STRUTS

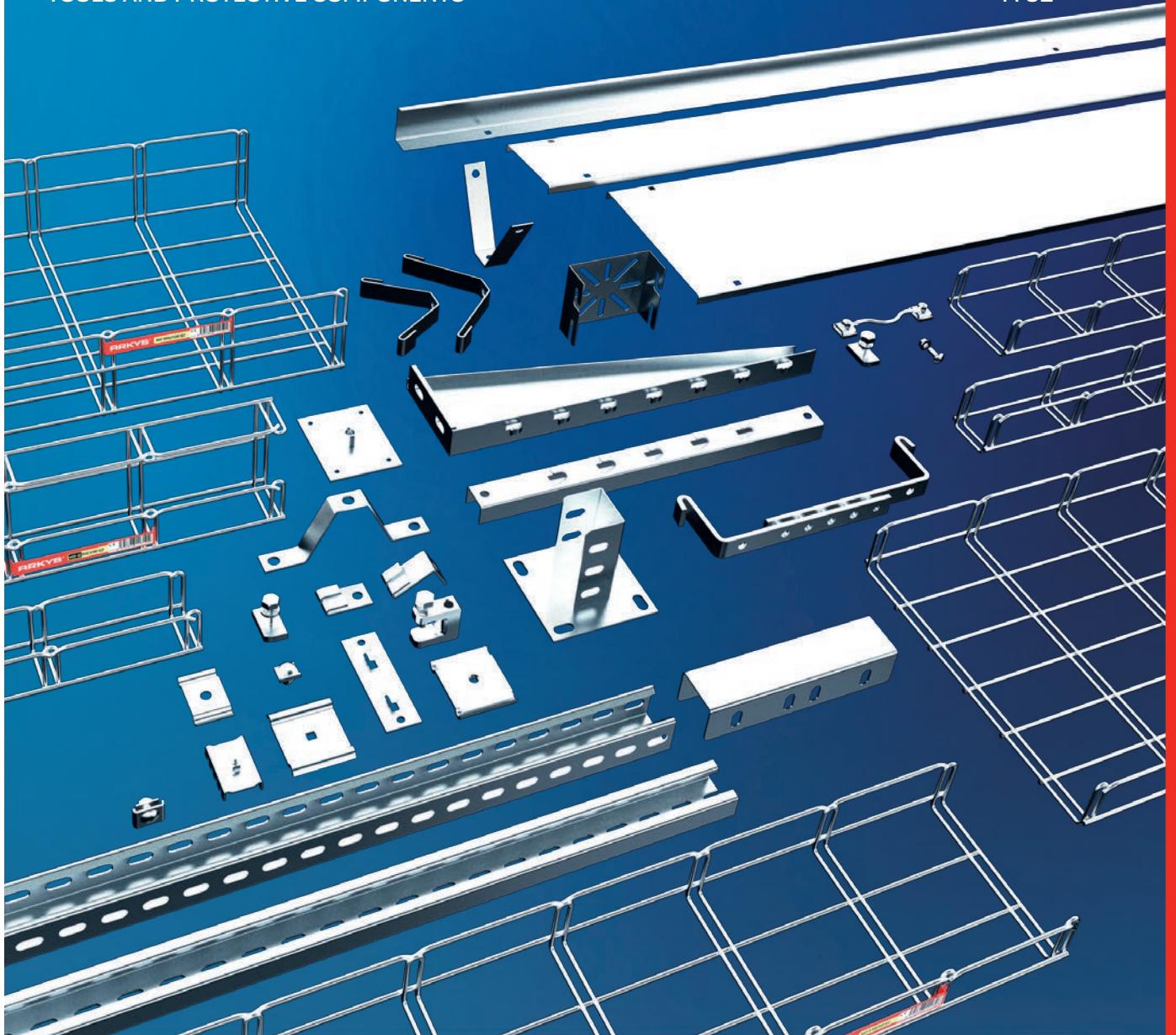
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CONNECTING ELEMENTS

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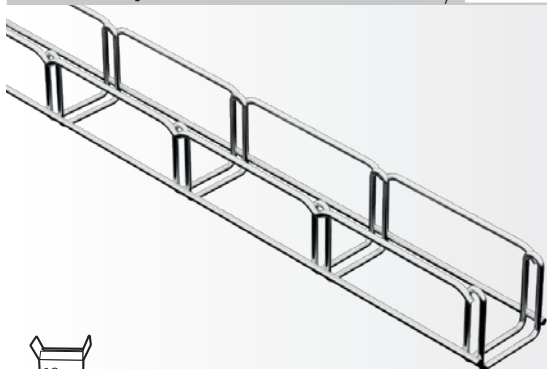
TOOLS AND PROTECTIVE COMPONENTS

P. 61



M2 50/50 wire cable tray

| ↔ 50 mm | ↑ 50 mm | ↔ 2 000 mm | 📦 1.2 kg 🔥



product code

GZ	ARK-211110
ZZ	ARK-221110
A2	ARK-231114
A4	ARK-241114

Mesh tray storage capacity

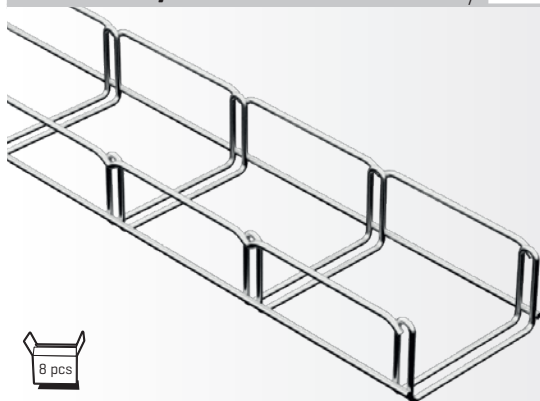
effective cross-section S_{eff} 1 320 mm²

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	4 pcs	3 pcs	2 pcs	2 pcs	1 pcs	1 pcs	1 pcs	1 pcs				
II	8 pcs	6 pcs	4 pcs	4 pcs	2 pcs							
III	12 pcs	9 pcs										
IV	16 pcs											

For more details on sizes, please refer to the Technical Annex, p. 74-87

M2 100/50 wire cable tray

| ↔ 100 mm | ↑ 50 mm | ↔ 2 000 mm | 📦 1.4 kg 🔥



product code

GZ	ARK-211120
ZZ	ARK-221120
A2	ARK-231124
A4	ARK-241124

Mesh tray storage capacity

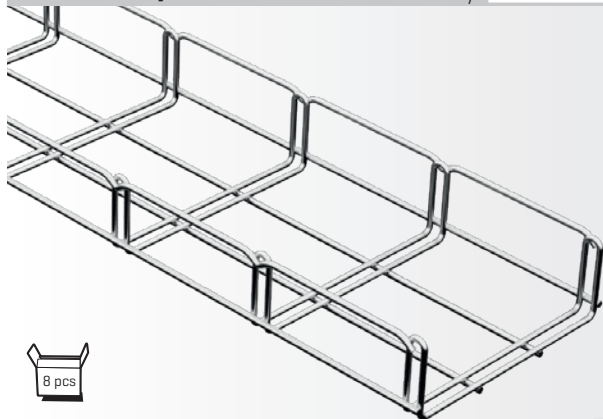
effective cross-section S_{eff} 2 900 mm²

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	9 pcs	7 pcs	5 pcs	4 pcs	3 pcs	3 pcs	2 pcs	2 pcs	2 pcs	1 pcs		
II	18 pcs	14 pcs	10 pcs	8 pcs	6 pcs							
III	27 pcs	21 pcs										
IV	36 pcs											

For more details on sizes, please refer to the Technical Annex, p. 74-87

M2 150/50 wire cable tray

| ↔ 150 mm | ↑ 50 mm | ↔ 2 000 mm | 📦 2.0 kg 🔥



product code

GZ	ARK-211130
ZZ	ARK-221130
A2	ARK-231134
A4	ARK-241134

Mesh tray storage capacity

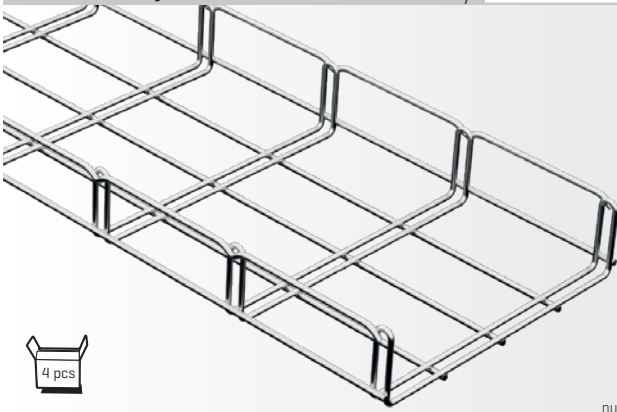
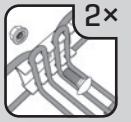
effective cross-section S_{eff} 4 470 mm²

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	14 pcs	11 pcs	8 pcs	7 pcs	5 pcs	4 pcs	4 pcs	3 pcs	3 pcs	2 pcs		
II	28 pcs	22 pcs	16 pcs	14 pcs	10 pcs							
III	42 pcs	33 pcs										
IV	56 pcs											

For more details on sizes, please refer to the Technical Annex, p. 74-87

M2 200/50 wire cable tray

| ↔ 200 mm | ↑ 50 mm | ↔ 2 000 mm | 📦 2.3 kg 🔥



product code

GZ	ARK-211140
ZZ	ARK-221140
A2	ARK-231144
A4	ARK-241144

Mesh tray storage capacity

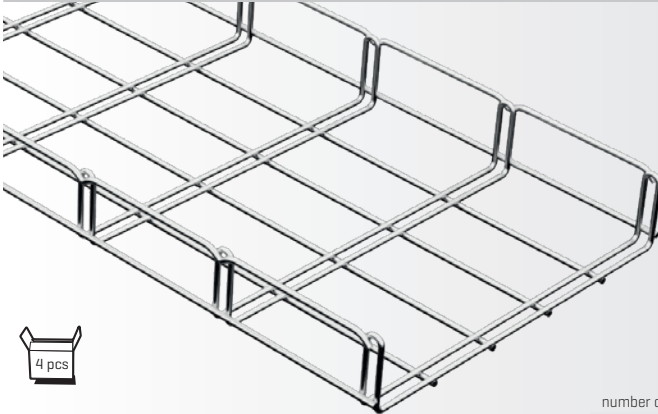
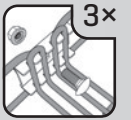
effective cross-section S_{eff} 6 050 mm²

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	19 pcs	15 pcs	11 pcs	9 pcs	7 pcs	6 pcs	5 pcs	4 pcs	4 pcs	3 pcs	x	x
II	38 pcs	30 pcs	22 pcs	18 pcs	14 pcs							
III	57 pcs	45 pcs										
IV	76 pcs											

For more details on sizes, please refer to the Technical Annex, p. 74-87

M2 250/50 wire cable tray

| ↔ 250 mm | ↑ 50 mm | ↔ 2 000 mm | 📦 3.0 kg 🔥



product code

GZ	ARK-211150
ZZ	ARK-221150
A2	ARK-231154
A4	* ARK-241154

Mesh tray storage capacity

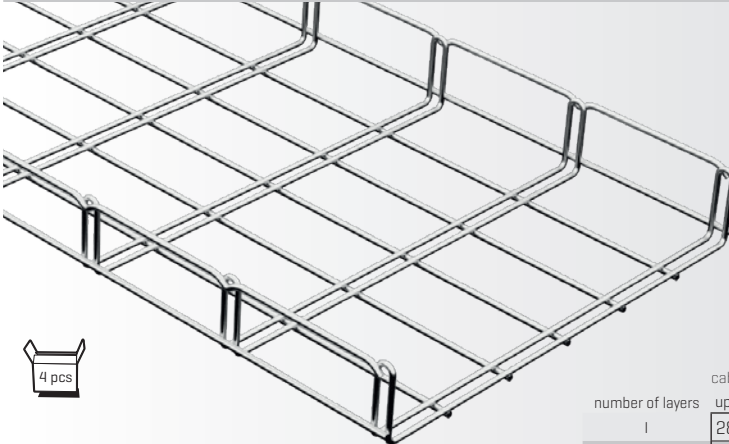
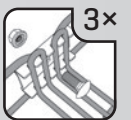
effective cross-section S_{eff} 7 620 mm²

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	23 pcs	19 pcs	14 pcs	11 pcs	9 pcs	7 pcs	6 pcs	5 pcs	5 pcs	4 pcs		
II	46 pcs	38 pcs	28 pcs	22 pcs	18 pcs							
III	69 pcs	57 pcs										
IV	92 pcs											

For more details on sizes, please refer to the Technical Annex, p. 74-87

M2 300/50 wire cable tray

| ↔ 300 mm | ↑ 50 mm | ↔ 2 000 mm | 📦 3.4 kg 🔥



product code

GZ	ARK-211160
ZZ	ARK-221160
A2	ARK-231164
A4	* ARK-241164

Mesh tray storage capacity

effective cross-section S_{eff} 9 200 mm²

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	28 pcs	24 pcs	18 pcs	14 pcs	11 pcs	9 pcs	8 pcs	7 pcs	6 pcs	5 pcs	x	
II	56 pcs	48 pcs	36 pcs	28 pcs	22 pcs							
III	84 pcs	72 pcs										
IV	112 pcs											

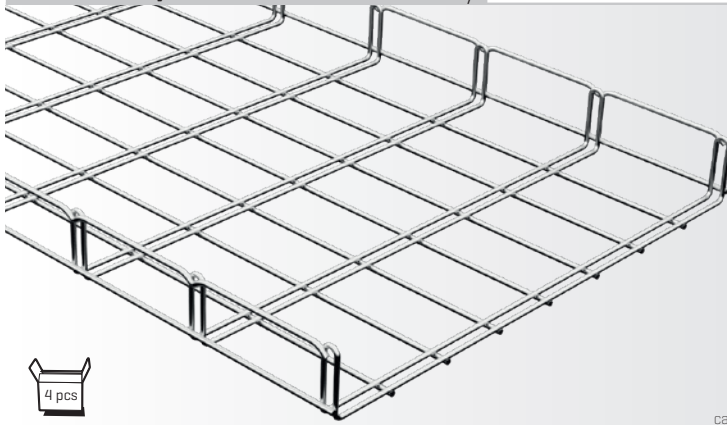
For more details on sizes, please refer to the Technical Annex, p. 74-87

[*] A4 parts are made-to-order.

Price and availability information is provided upon request.

M2 400/50 wire cable tray

| ↔ 400 mm | ↑ 50 mm | ↔ 2 000 mm | 📦 4.1 kg 🔥



product code

GZ	ARK-211170
ZZ	ARK-221170
A2	ARK-231174
A4	* ARK-241174

Mesh tray storage capacity

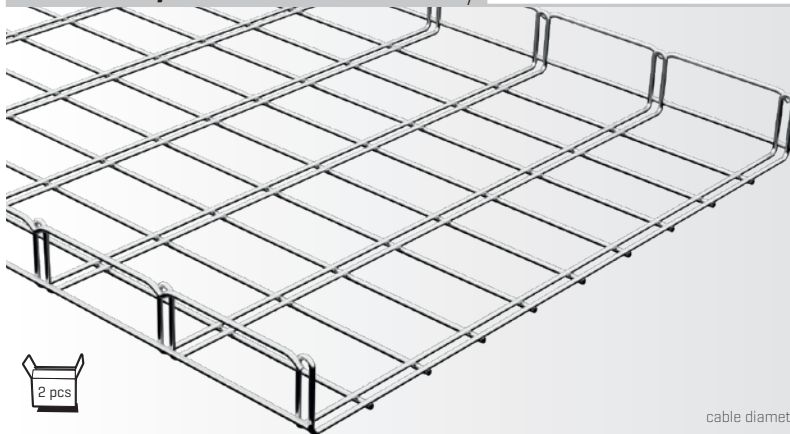
effective cross-section S_{eff} 12 350 mm²

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	38 pcs	32 pcs	24 pcs	19 pcs	15 pcs	13 pcs	11 pcs	9 pcs	8 pcs	7 pcs		
II	76 pcs	64 pcs	48 pcs	38 pcs	30 pcs							
III	114 pcs	96 pcs										
IV	152 pcs											

For more details on sizes, please refer to the Technical Annex, p. 74-87

M2 500/50 wire cable tray

| ↔ 500 mm | ↑ 50 mm | ↔ 2 000 mm | 📦 4.9 kg 🔥



product code

GZ	ARK-211180
ZZ	ARK-221180
A2	ARK-231184
A4	* ARK-241184

Mesh tray storage capacity

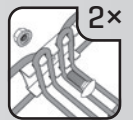
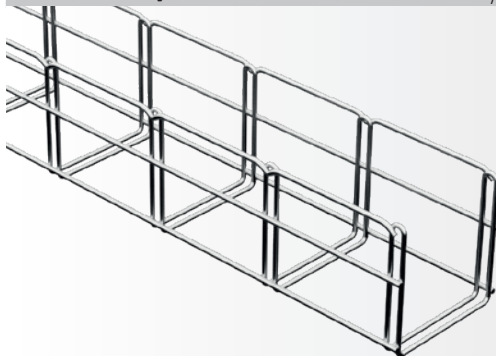
effective cross-section S_{eff} 15 500 mm²

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	48 pcs	40 pcs	30 pcs	24 pcs	19 pcs	16 pcs	14 pcs	12 pcs	10 pcs	9 pcs		
II	96 pcs	80 pcs	60 pcs	48 pcs	38 pcs	32 pcs						
III	144 pcs	120 pcs										
IV	192 pcs											

For more details on sizes, please refer to the Technical Annex, p. 74-87

M2 100/100 wire cable tray

| ↔ 100 mm | ↑ 100 mm | ↔ 2 000 mm | 📦 2.1 kg 🔥



product code

GZ	ARK-211210
ZZ	ARK-221210
A2	ARK-231214
A4	ARK-241214

Mesh tray storage capacity

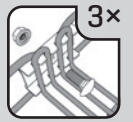
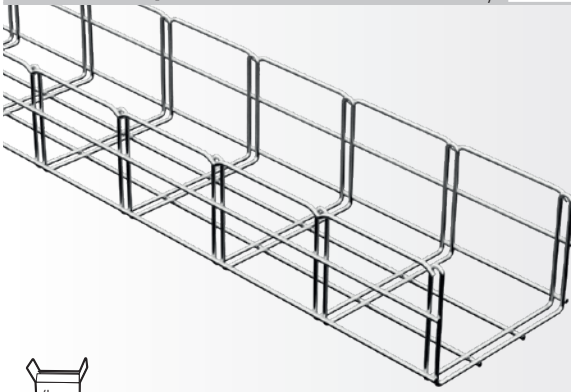
effective cross-section S_{eff} 6 120 mm²

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	9 pcs	7 pcs	5 pcs	4 pcs	3 pcs	3 pcs	2 pcs	2 pcs	2 pcs	1 pcs	1 pcs	1 pcs
II	18 pcs	14 pcs	10 pcs	8 pcs	6 pcs	6 pcs	4 pcs	4 pcs	4 pcs			
III	27 pcs	21 pcs	15 pcs	12 pcs	9 pcs	9 pcs						
IV	36 pcs	28 pcs	20 pcs	16 pcs								
V	45 pcs	35 pcs	25 pcs									
VI	54 pcs	42 pcs										
VII	63 pcs	49 pcs										
VIII	72 pcs											
IX	81 pcs											

For more details on sizes, please refer to the Technical Annex, p. 74-87

M2 150/100 wire cable tray

| ↔ 150 mm | ↓ 100 mm | ↔ 2 000 mm | 📦 3.0 kg 🔥



Mesh tray storage capacity

effective cross-section S_{eff} **9 440 mm²**



product code

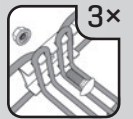
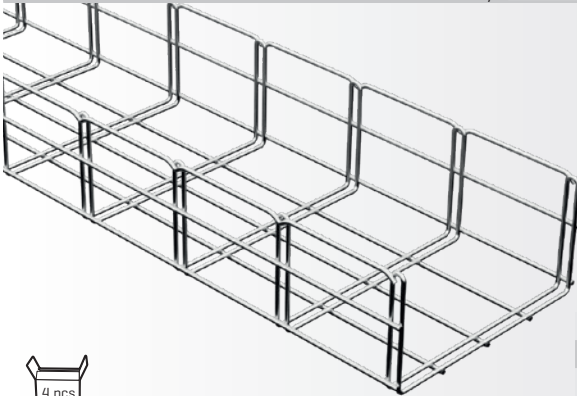
GZ	ARK-211220
ZZ	ARK-221220
A2	ARK-231224
A4	ARK-241224

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	14 pcs	11 pcs	8 pcs	7 pcs	5 pcs	4 pcs	4 pcs	3 pcs	3 pcs	2 pcs	2 pcs	2 pcs
II	28 pcs	22 pcs	16 pcs	14 pcs	10 pcs	8 pcs	8 pcs	6 pcs	6 pcs			
III	42 pcs	33 pcs	24 pcs	21 pcs	15 pcs	12 pcs						
IV	56 pcs	44 pcs	32 pcs	28 pcs								
V	70 pcs	55 pcs	40 pcs									
VI	84 pcs	66 pcs										
VII	98 pcs	77 pcs										
VIII	112 pcs											
IX	126 pcs											

For more details on sizes, please refer to the Technical Annex, p. 74-87

M2 200/100 wire cable tray

| ↔ 200 mm | ↓ 100 mm | ↔ 2 000 mm | 📦 3.4 kg 🔥



Mesh tray storage capacity

effective cross-section S_{eff} **12 770 mm²**



product code

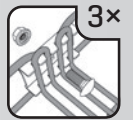
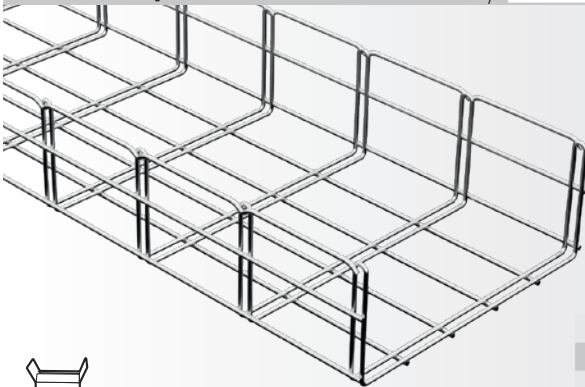
GZ	ARK-211230
ZZ	ARK-221230
A2	ARK-231234
A4	* ARK-241234

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	19 pcs	15 pcs	11 pcs	9 pcs	7 pcs	6 pcs	5 pcs	4 pcs	4 pcs	3 pcs	3 pcs	3 pcs
II	38 pcs	30 pcs	22 pcs	18 pcs	14 pcs	12 pcs	10 pcs	8 pcs	8 pcs			
III	57 pcs	45 pcs	33 pcs	27 pcs	21 pcs	18 pcs						
IV	76 pcs	60 pcs	44 pcs	36 pcs								
V	95 pcs	75 pcs	55 pcs									
VI	114 pcs	90 pcs										
VII	133 pcs	105 pcs										
VIII	152 pcs											
IX	171 pcs											

For more details on sizes, please refer to the Technical Annex, p. 74-87

M2 250/100 wire cable tray

| ↔ 250 mm | ↓ 100 mm | ↔ 2 000 mm | 📦 3.7 kg 🔥



Mesh tray storage capacity

effective cross-section S_{eff} **16 090 mm²**



product code

GZ	ARK-211240
ZZ	ARK-221240
A2	ARK-231244
A4	* ARK-241244

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	23 pcs	19 pcs	14 pcs	11 pcs	9 pcs	7 pcs	6 pcs	5 pcs	5 pcs	4 pcs	4 pcs	4 pcs
II	46 pcs	38 pcs	28 pcs	22 pcs	18 pcs	14 pcs	12 pcs	10 pcs	10 pcs			
III	69 pcs	57 pcs	42 pcs	33 pcs	27 pcs	21 pcs						
IV	92 pcs	76 pcs	56 pcs	44 pcs								
V	115 pcs	95 pcs	70 pcs									
VI	138 pcs	114 pcs										
VII	161 pcs	133 pcs										
VIII	184 pcs											
IX	207 pcs											

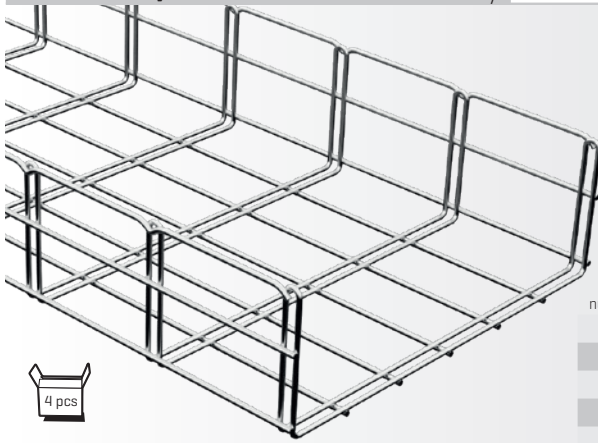
For more details on sizes, please refer to the Technical Annex, p. 74-87

[*] A4 parts are made-to-order.

Price and availability information is provided upon request.

M2 300/100 wire cable tray

| ↔ 300 mm | ↑ 100 mm | ↔ 2 000 mm | 📦 4.1 kg 🔥



3×

Mesh tray storage capacity

effective cross-section S_{eff} 19 420 mm²

product code

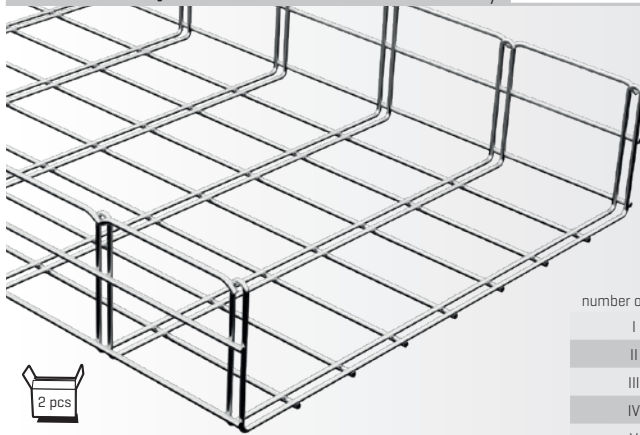
GZ	ARK-211250
ZZ	ARK-221250
A2	ARK-231254
A4	* ARK-241254

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	28 pcs	24 pcs	18 pcs	14 pcs	11 pcs	9 pcs	8 pcs	7 pcs	6 pcs	5 pcs	5 pcs	4 pcs
II	56 pcs	48 pcs	36 pcs	28 pcs	22 pcs	18 pcs	16 pcs	14 pcs	12 pcs			
III	84 pcs	72 pcs	54 pcs	42 pcs	33 pcs	27 pcs						
IV	112 pcs	96 pcs	72 pcs	56 pcs								
V	140 pcs	120 pcs	90 pcs									
VI	168 pcs	144 pcs										
VII	196 pcs	168 pcs										
VIII	224 pcs											
IX	252 pcs											

For more details on sizes, please refer to the Technical Annex, p. 74-87

M2 400/100 wire cable tray

| ↔ 400 mm | ↑ 100 mm | ↔ 2 000 mm | 📦 4.9 kg 🔥



4×

Mesh tray storage capacity

effective cross-section S_{eff} 26 070 mm²

product code

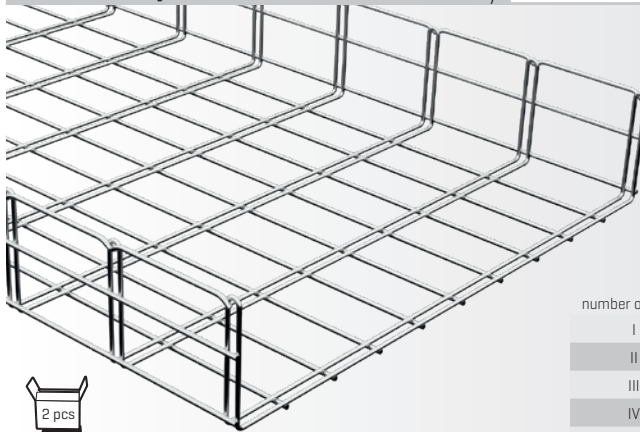
GZ	ARK-211260
ZZ	ARK-221260
A2	ARK-231264
A4	* ARK-241264

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	38 pcs	32 pcs	24 pcs	19 pcs	15 pcs	13 pcs	11 pcs	9 pcs	8 pcs	7 pcs	7 pcs	6 pcs
II	76 pcs	64 pcs	48 pcs	38 pcs	30 pcs	26 pcs	22 pcs	18 pcs	16 pcs			
III	114 pcs	96 pcs	72 pcs	57 pcs	45 pcs	39 pcs						
IV	152 pcs	128 pcs	96 pcs	76 pcs								
V	190 pcs	160 pcs	120 pcs									
VI	228 pcs	192 pcs										
VII	266 pcs	224 pcs										
VIII	304 pcs											
IX	342 pcs											

For more details on sizes, please refer to the Technical Annex, p. 74-87

M2 500/100 wire cable tray

| ↔ 500 mm | ↑ 100 mm | ↔ 2 000 mm | 📦 5.7 kg 🔥



4×

Mesh tray storage capacity

effective cross-section S_{eff} 32 740 mm²

product code

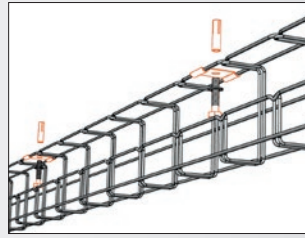
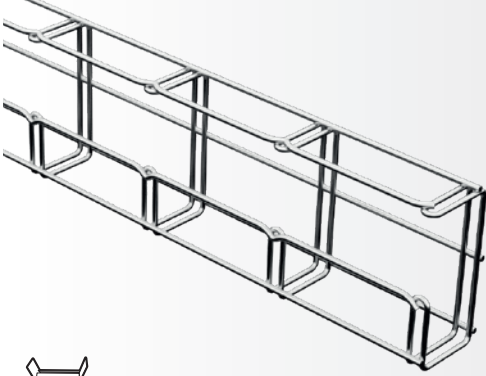
GZ	ARK-211270
ZZ	ARK-221270
A2	ARK-231274
A4	* ARK-241274

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	48 pcs	40 pcs	30 pcs	24 pcs	19 pcs	16 pcs	14 pcs	12 pcs	10 pcs	9 pcs	8 pcs	8 pcs
II	96 pcs	80 pcs	60 pcs	48 pcs	38 pcs	32 pcs	28 pcs	24 pcs	20 pcs			
III	144 pcs	120 pcs	90 pcs	72 pcs	57 pcs	48 pcs						
IV	192 pcs	160 pcs	120 pcs	96 pcs								
V	240 pcs	200 pcs	150 pcs									
VI	288 pcs	240 pcs										
VII	336 pcs	280 pcs										
VIII	384 pcs											
IX	432 pcs											

For more details on sizes, please refer to the Technical Annex, p. 74-87

M2-G 50/100 wire cable tray

↔ 50 mm | ↓ 100 mm | ↔ 2 000 mm | 📦 2.0 kg 🔥



Wire cable trays of the "G" range are intended for simplified assembly in the soffit by means of DZM 12 wall brackets.



product code

GZ	ARK-211310
ZZ	ARK-221310
A2	ARK-231314
A4	* ARK-241314

Mesh tray storage capacity

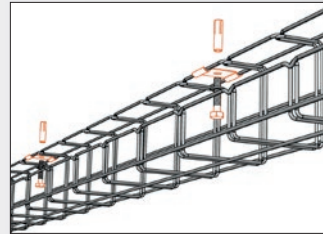
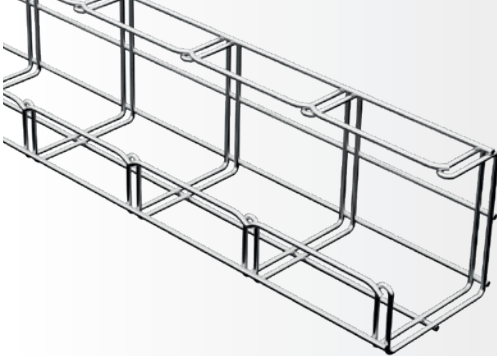
effective cross-section S_{eff} 1 320 mm²

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	4 pcs	3 pcs	2 pcs	2 pcs	1 pcs	1 pcs	1 pcs	1 pcs				
II	8 pcs	6 pcs	4 pcs	4 pcs	2 pcs							
III	12 pcs	9 pcs										
IV	16 pcs											

For more details on sizes, please refer to the Technical Annex, p. 74-87

M2-G 100/100 wire cable tray

↔ 100 mm | ↓ 100 mm | ↔ 2 000 mm | 📦 2.3 kg 🔥



Wire cable trays of the "G" range are intended for simplified assembly in the soffit by means of DZM 12 wall brackets.



product code

GZ	ARK-211320
ZZ	ARK-221320
A2	ARK-231324
A4	* ARK-241324

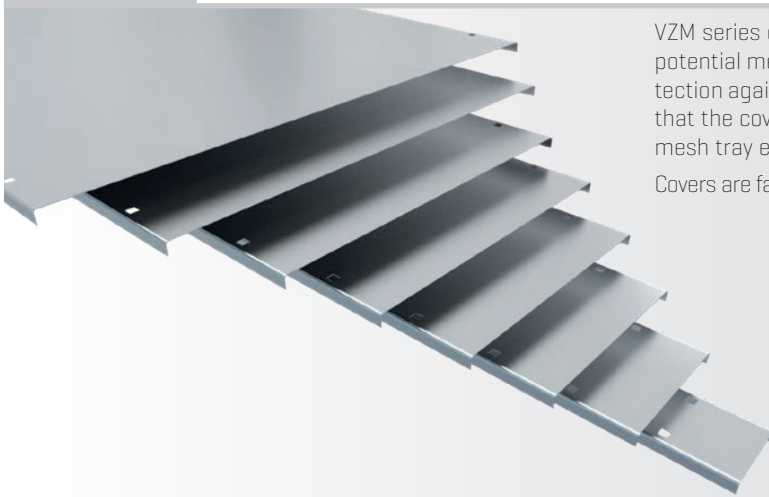
Mesh tray storage capacity

effective cross-section S_{eff} 6 120 mm²

number of layers	cable diameter [mm]											
	up to 10	11-12	13-16	17-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
I	9 pcs	7 pcs	5 pcs	4 pcs	3 pcs	3 pcs	2 pcs	2 pcs	2 pcs	1 pcs	1 pcs	1 pcs
II	18 pcs	14 pcs	10 pcs	8 pcs	6 pcs	6 pcs	4 pcs	4 pcs	4 pcs			
III	27 pcs	21 pcs	15 pcs	12 pcs	9 pcs	9 pcs						
IV	36 pcs	28 pcs	20 pcs	16 pcs								
V	45 pcs	35 pcs	25 pcs									
VI	54 pcs	42 pcs										
VII	63 pcs	49 pcs										
VIII	72 pcs											
IX	81 pcs											

For more details on sizes, please refer to the Technical Annex, p. 74-87

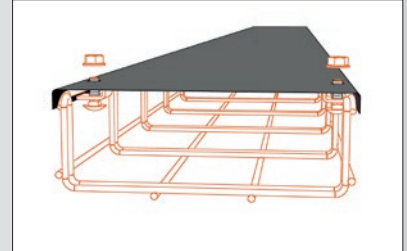
VZM cover



VZM series covers are used to cover a cable route to protect it against potential mechanical damage of the cables, as well as for outdoor protection against UV radiation. The number suggests the mesh tray width that the cover is to be used with [e.g. VZM 50 is intended for a 50 mm mesh tray etc.]

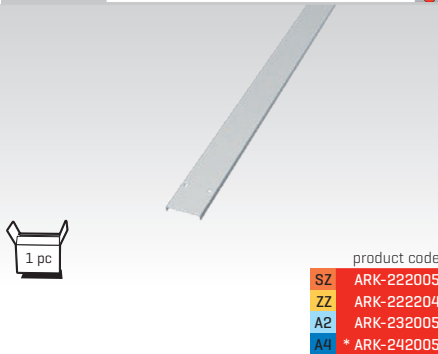
Covers are fastened to mesh trays by means of SVM 1 couplers [see p. 33].

example of assembly

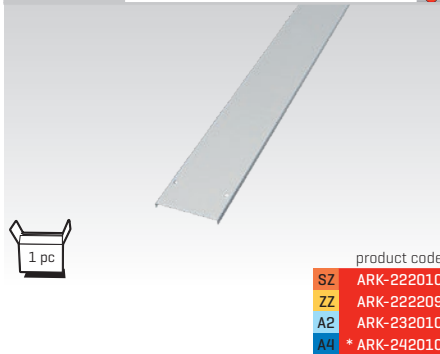


For more details on sizes, please refer to the Technical Annex, p. 74-87

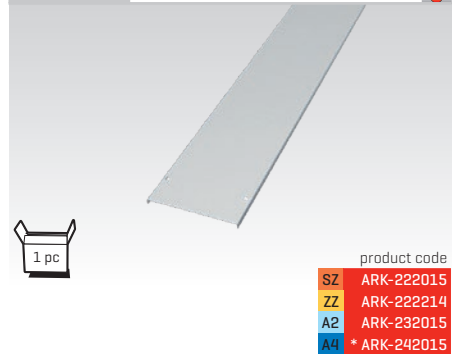
VZM 50



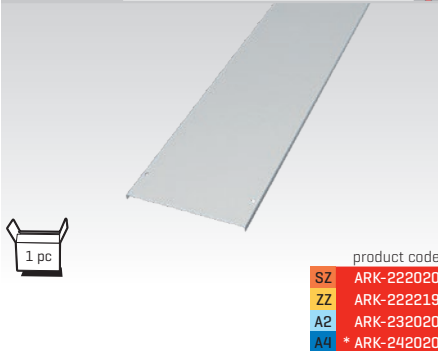
VZM 100



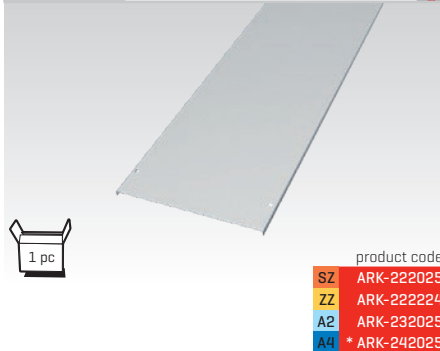
VZM 150



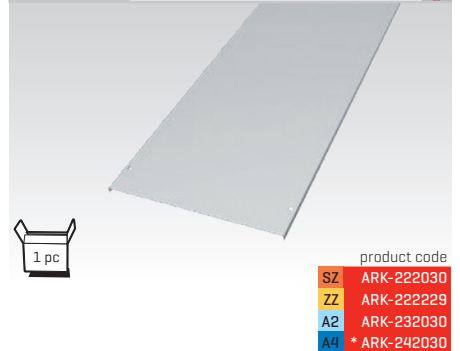
VZM 200



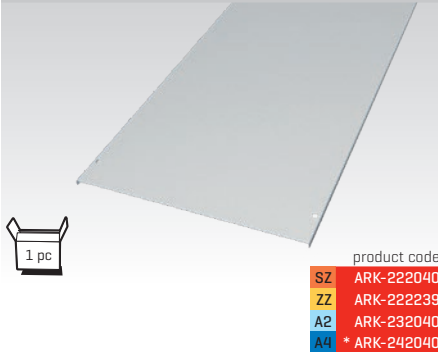
VZM 250



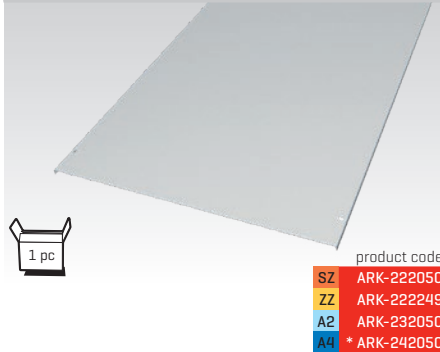
VZM 300



VZM 400



VZM 500



Standard cover cross-section



Mesh tray covers with ZZ [hot-dip-galvanized] finish, from 250 mm width



ZZ [hot-dip-galvanized] covers are produced as 1000 mm long [applies for all sizes].

KPZM divider

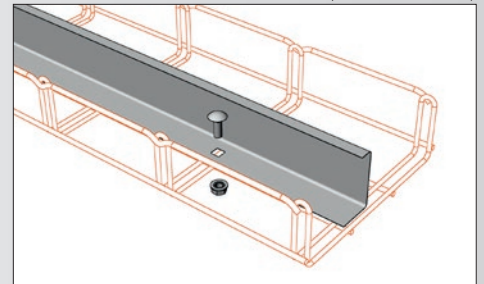


KPZM series dividers are used to divide the mesh tray into sections, e.g. to separate high-voltage from low-voltage circuits, or just for a clear arrangement of the cable route. The number suggests the mesh tray wall height that the cover is to be used with [e.g. KPZM 50 is intended for a 50 mm mesh tray, etc.]

Dividers are fastened to mesh trays by means of the SPM 1 connecting set [see p. 33].



example of assembly




For more details on sizes, please refer to the Technical Annex, p. 74-87

KPZM 50




KPZM 100

1 pc

product code

SZ	ARK-222105
ZZ	ARK-222305
A2	ARK-232105
A4	*ARK-242105



1 pc

product code

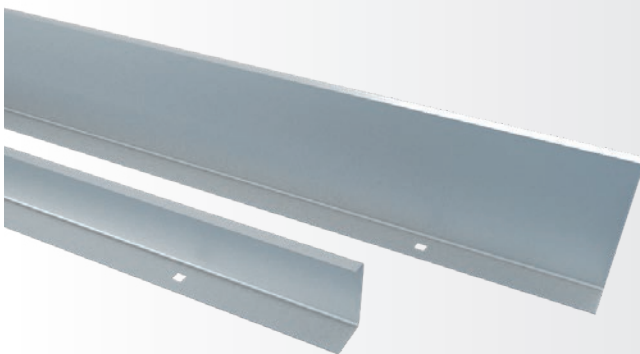
SZ	ARK-222110
ZZ	ARK-222310
A2	ARK-232110
A4	*ARK-242110

KPZMP divider - fire resistant

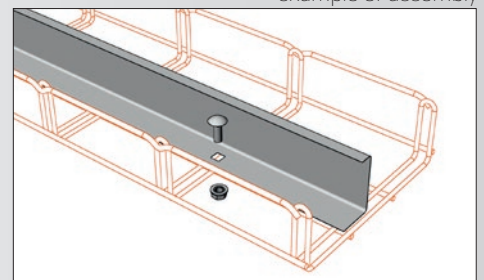


KPZMP series dividers separate cables in a cable route where fire resistance is required. The dividers are made of steel sheets [thickness 1.5 mm]. The number suggests the mesh tray wall height that the cover is to be used with [e.g. KPZM 50 is intended for a 50 mm mesh tray, etc.]

Dividers are fastened to mesh trays by means of the SPM 1 connecting set [see p. 33].



example of assembly




For more details on sizes, please refer to the Technical Annex, p. 74-87

KPZMP 50




KPZMP 100

1 pc

product code

SZ	ARK-222115
ZZ	ARK-222315
A2	ARK-232115



1 pc

product code

SZ	ARK-222120
ZZ	ARK-222320
A2	ARK-232120

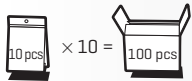
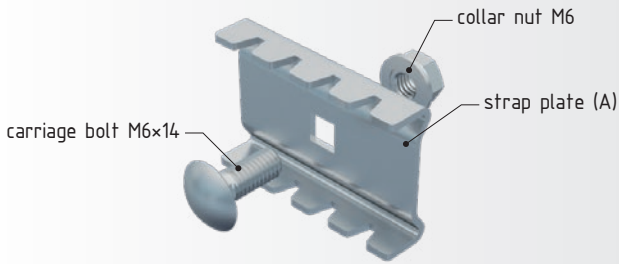
[*] A4 parts are made-to-order.
Price and availability information is provided upon request.

SZM 1 coupler



The SZM 1 mesh tray coupler is the general splice of the MERKUR 2 system. It is used for joining the mesh trays of a cable route.

The coupler set consists of the body - a strap plate [A], carriage bolt M6x16 and collar nut M6.

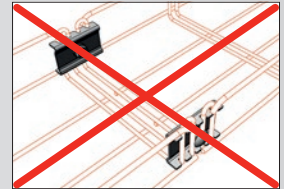
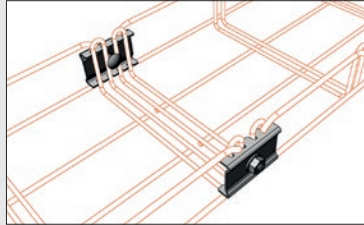


product code

GZ	ARK-213010
ZZ	ARK-223010
A2	ARK-233010
A4	ARK-243010

connecting element options:
 0 - electro-galvanized [GZ]
 2 - geomet 500 [GS]
 3 - stainless steel AISI 304 [A2]

example of assembly



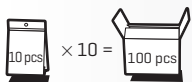
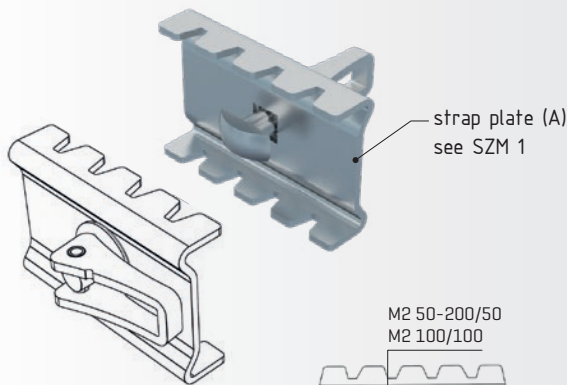
For more details on sizes, please refer to the Technical Annex, p. 74-87

SZM 1-R fast coupler | boltless coupler for fast assembly



SZM 1-R is a boltless quick-coupling element, enabling the M2 system to be installed even more quickly and comfortably.

However, the installation of this coupler is not permissible for cable routes with functional integrity [fire resistant]. This function is ensured by the SZM 1 couplers.



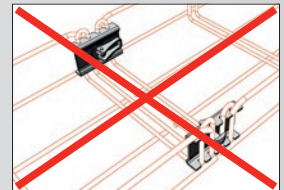
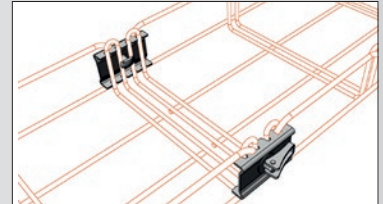
product code

GZ	ARK-213017
----	------------

M2 50-200/50
M2 100/100

M2 250-500/50
M2 150-500/100

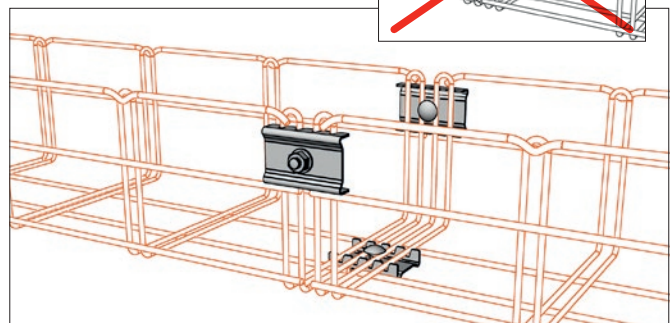
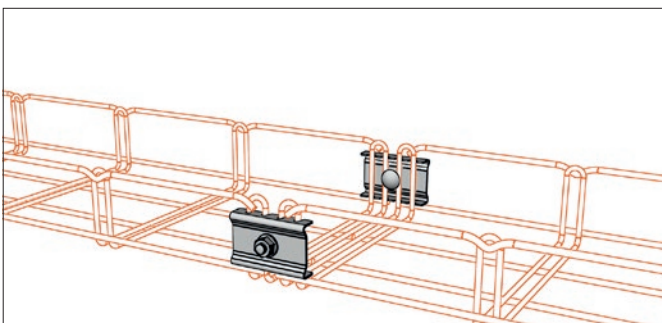
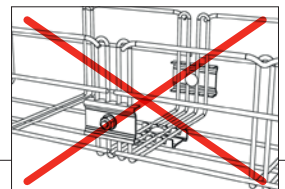
example of assembly



For more details on sizes, please refer to the Technical Annex, p. 74-87

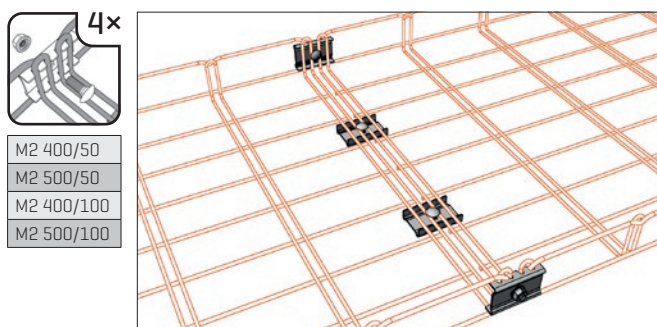
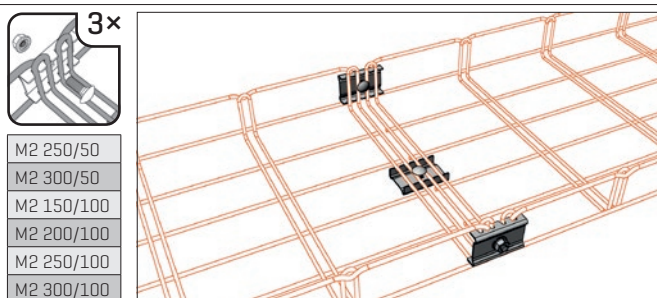
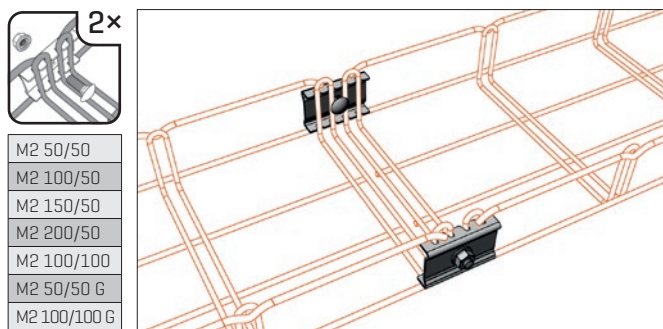
Correct placement of SMZ 1 and SZM 1-R couplers

The correct placement of the couplers on a mesh tray side wall is important for achieving the declared load capacity as well as the optimum stiffness of the assembled mesh tray, as shown in the figures. It is vital in particular for mesh trays with 100 mm high side walls requiring the junction piece to be located directly under the upper margin of the tray.



Connection rules

In order to meet the declared values, it is necessary to use the correct number of couplers in the positions according to the pictures. Declared values of tray capacity [see p. 13 - 14] apply under the condition of prescribed installation of connection points. Otherwise, we do not guarantee the stated values.

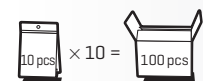
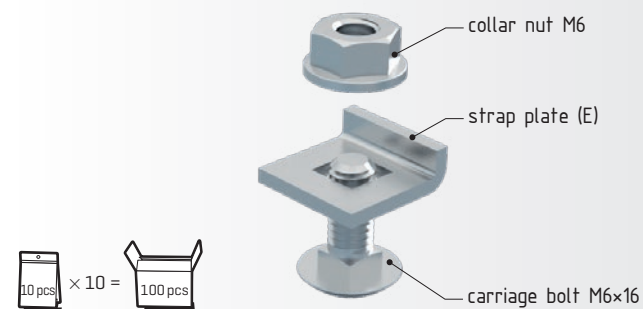


SVM 1 cover clamp

Components shown in the figure are included in the package.

The SVM 1 clamp serves for fastening the mesh tray cover.

The joint set consists of a liner with border (E), a carriage bolt M6x16 and a collar nut M6. Installation of 2 pcs of clamps every 100 cm of the cover.

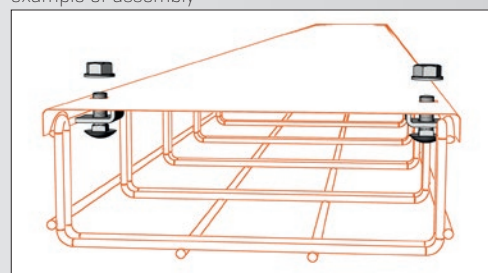


product code

GZ	ARK-213085
ZZ	ARK-223085
A2	ARK-233085
A4	* ARK-243085

connecting element options:
5 - geomet 500 (G5) - standard option
8 - stainless steel AISI 304 (A2)

example of assembly



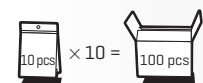
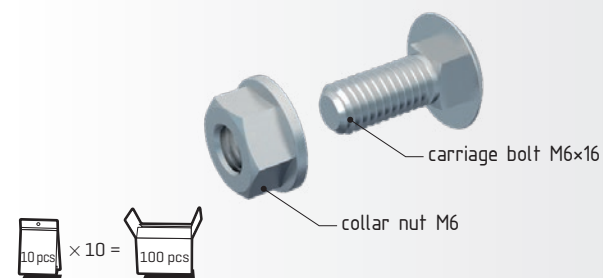
For more details on sizes, please refer to the Technical Annex, p. 74-87

SPM 1 divider clamp

Components shown in the figure are included in the package.

The SPM 1 divider clamp serves for fastening the dividers to any place within the entire width of a wire mesh tray. This versatility represents its main technical benefit. Installation of two SPM 1 divider clamps every 100 cm of the divider.

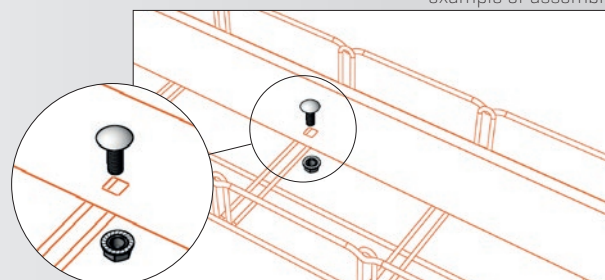
The divider clamp consists of a carriage bolt M6x16 and a collar nut M6.



product code

GZ	ARK-213080
G5	ARK-223080
A2	ARK-233080
A4	* ARK-243080

connecting element options:
5 - geomet 500 (G5) - standard option
8 - stainless steel AISI 304 (A2)

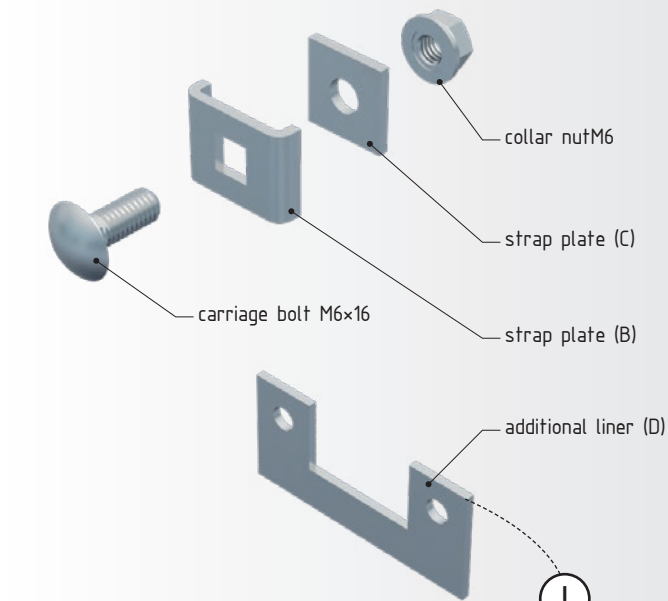


For more details on sizes, please refer to the Technical Annex, p. 74-87

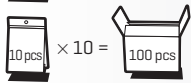
[*] A4 parts are made-to-order. Price and availability information is provided upon request.

SZM 4 installation coupler set

Components shown in the figure are included in the package.



+Every package contains 5 pcs of additional liner [D] to be installed with 2x SZM 4 coupler.



product code

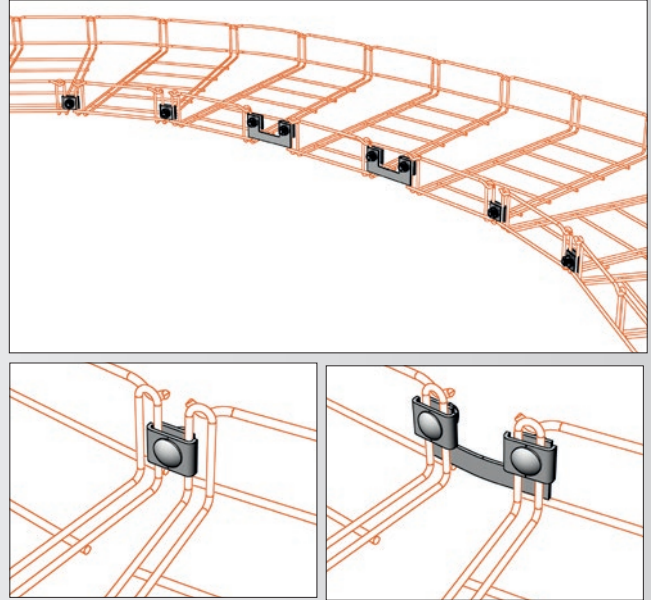
GZ	ARK-213040	connecting element options: 0 - electro-galvanized (GZ) 2 - geomet 500 (G5) 3 - stainless steel AISI 304 (A2)
ZZ	ARK-223040	
A2	ARK-233040	
A4	ARK-243040	



The SZM 4 installation coupler set is used to form elbows, T-pieces, mesh tray crossings and other branches as needed on the cable track. Various angles can be shaped by consecutive steps by combining liners C and D.

The coupler set consists of a strap plate [B] and [C], M6x16 carriage bolt, M6 collar nut and additional liner [D].

example of assembly

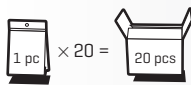
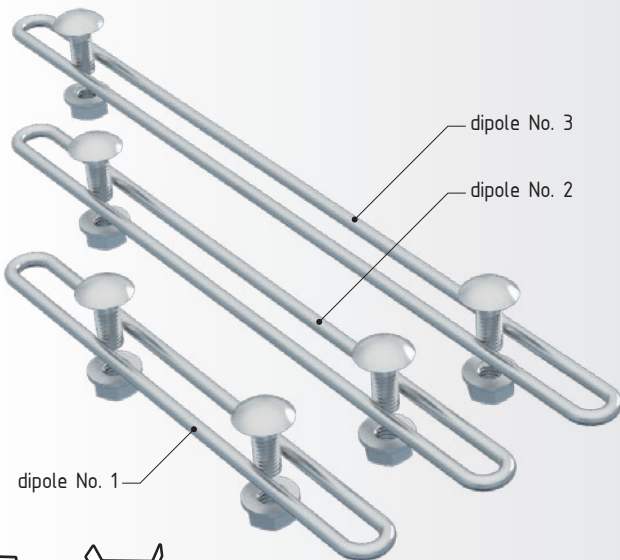


For more details on sizes, please refer to the Technical Annex, p. 74-87

Further information relating to the use of the SZM 4 see the section Shaping, p. 61 - 73.

TSM 50-100 installation set

Components shown in the figure are included in the package.



product code

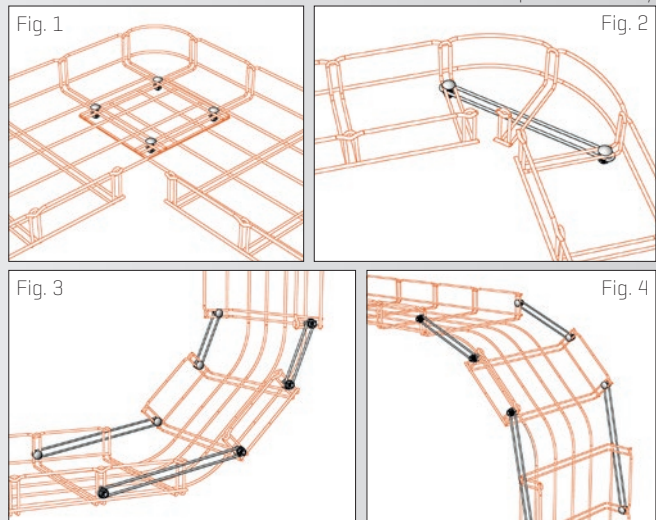
GZ	ARK-213050	connecting element options: 0 - electro-galvanized (GZ) 2 - geomet 500 (G5) 3 - stainless steel AISI 304 (A2)
ZZ	ARK-223050	
A2	ARK-233054	
A4	* ARK-243054	

1 pc = 2x dipole No. 1 + 2x dipole No. 2 + 2x dipole No. 3
8x carriage bolt M6x16 + 8x collar nut M6



The TSM 50-100 installation set serves as a supplement for the SMZ 4 installation coupler set. It is mostly used for shaping wire mesh trays of 50 and 100 mm width, but its connecting accessories [bolt + nut] can also be used to shape other mesh tray sizes [see Fig. 1 and 2]. It can also serve for shaping inner and outer elbows [see Fig. 3 and 4].

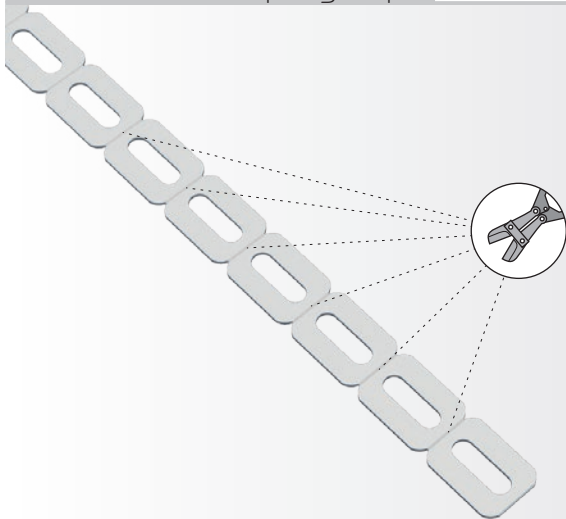
example of assembly



For more details on sizes, please refer to the Technical Annex, p. 74-87

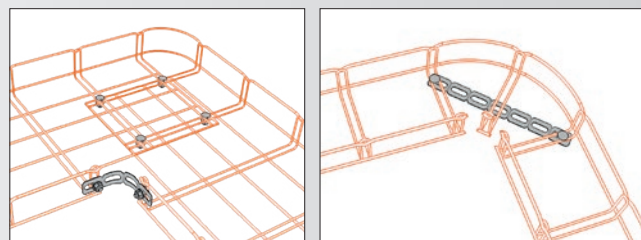
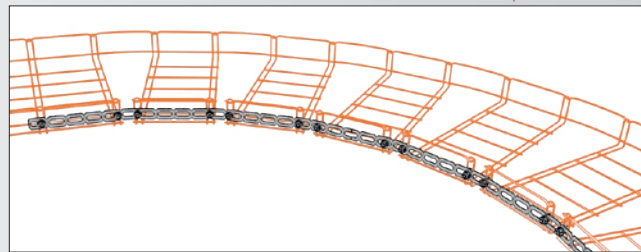
Further information relating to the use of the SZM 4 see the section Shaping, p. 61 - 73.

TPM 1000 shaping tape



TPM 1000 shaping tape serves to create bends or other shaped elements of cable routes. The tape is 1.000 mm long. Perforations between individual pieces enable easy hand-splitting. The tape is fixed to a mesh tray with a carriage bolt M6x16 and collar nut M6 [not included, see p. 56 and 58], using the oval holes of the strip.

example of assembly



For more details on sizes, please refer to the Technical Annex, p. 74-87



product code

SZ ARK-223056

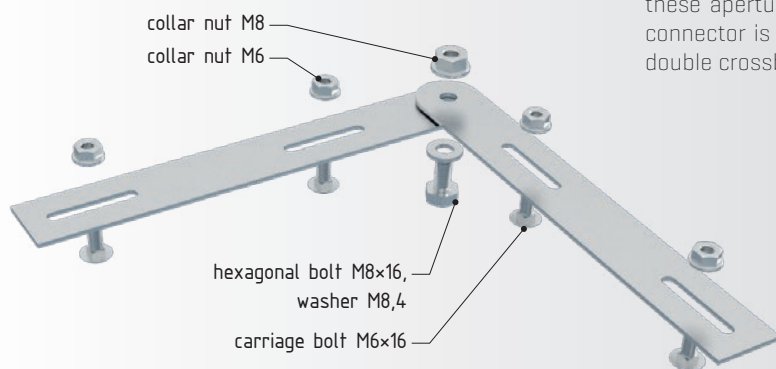
A2 ARK-233056

SKHM 1 angular connector



Components shown in the figure are included in the package.

The SKHM 1 angular connector consists of two identical parts, connected together with an M8x16 hexagonal bolt and M8 collar nut [both included in the kit]. This creates the final angular connector part. Each "leg" has 2 oval holes [40x6.4mm]. Using these apertures, a carriage bolt M6x16 and collar nut M6, the connector is fixed to the MERKUR 2 mesh tray [precisely to the double crossbeam].



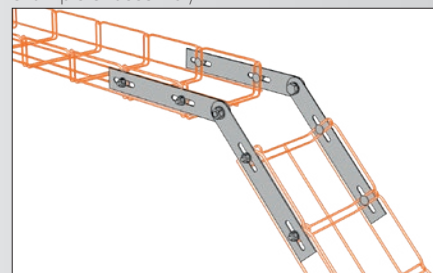
product code

GZ ARK-213067

ZZ ARK-223067

A2 ARK-233067

example of assembly

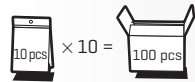
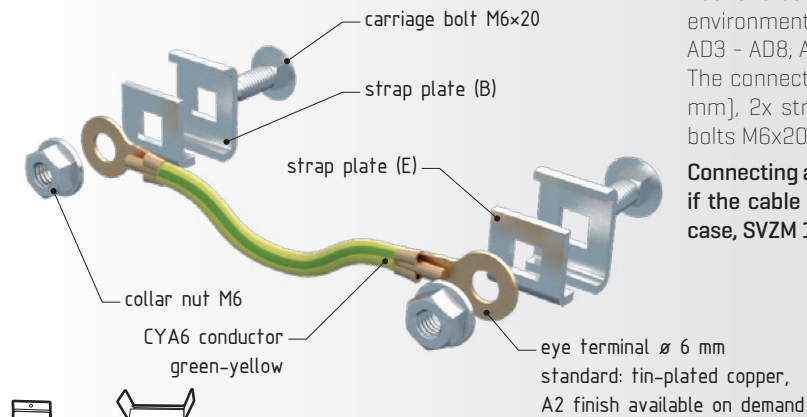


For more details on sizes, please refer to the Technical Annex, p. 74-87

[*] A4 parts are made-to-order.
Price and availability information is provided upon request.

SUM 1 earth conductor connector

Components shown in the figure are included in the package.



product code

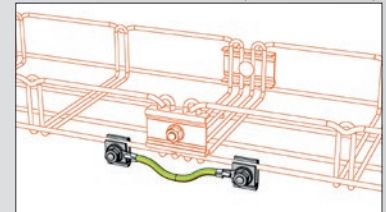
GZ	ARK-213070	connecting element options: 0 - electro-galvanized (GZ) 2 - geomet 500 (G5) 3 - stainless steel AISI 304 (A2)
ZZ	ARK-223070	
A2	ARK-233070	
A4	* ARK-243070	

The SUM 1 connector serves for supplementary conductive connections between mesh trays when implementing cable routes in environments with high corrosion aggressiveness (in particular AD3 - AD8, AF3, AF4 and others).

The connector set consists of a conductor CYA 6 GE (length 200 mm), 2x strap plates (B), 2x strap plates (E), 2 pcs of carriage bolts M6x20 and 2 pcs of nuts M6.

Connecting a cable route with the SUM 1 connector is not sufficient if the cable route fulfils a substitutive earthing function! In such case, SVZM 1 or SVZM 3 connectors ought to be used.

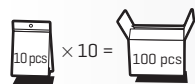
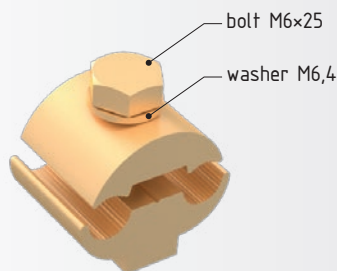
example of assembly



For more details on sizes, please refer to the Technical Annex, p. 74-87

SVZM 1 earth conductor clamp

Components shown in the figure are included in the package.



product code

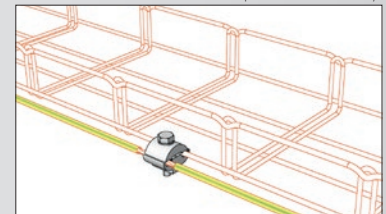
GZ	ARK-213078	Clamp and connecting material - brass
----	------------	---------------------------------------

The SVZM 1 earth conductor clamp is used for earthing a cable route. The clamp may be used with conductors of max. 25 mm² [cross-section]. Installation of SVZM 1 clamp at a spacing of approx. every 5 - 10 meters of the cable route.

The protective conductor cross-section is determined by planners or the construction company, based on technical data.

If the SVZM 1 clamp is used, the cable route may serve as substitutive earthing.

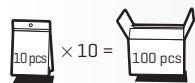
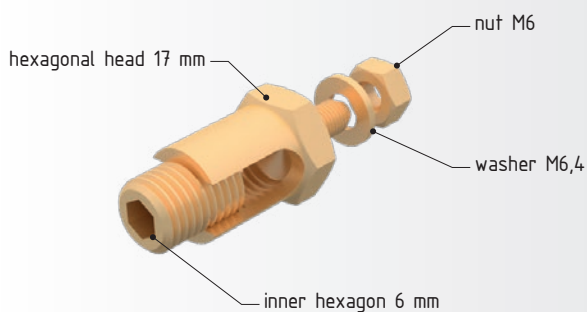
example of assembly



For more details on sizes, please refer to the Technical Annex, p. 74-87

SVZM 3 earth conductor clamp

Components shown in the figure are included in the package.



product code

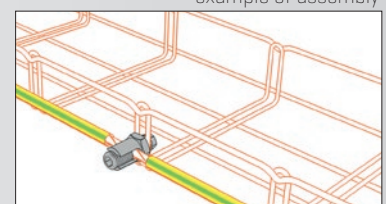
GZ	ARK-213077	Clamp and connecting material - brass
----	------------	---------------------------------------

The SVZM 3 earth conductor clamp is used for earthing a cable route. The clamp may be used with conductors of max. 50 mm² [cross-section]. Installation of SVZM 3 clamp at a spacing of approx. every 5 - 10 meters of the cable route.

The protective conductor cross-section is determined by planners or the construction company, based on technical data.

If the SVZM 3 clamp is used, the cable route may serve as substitutive earthing.

example of assembly



For more details on sizes, please refer to the Technical Annex, p. 74-87

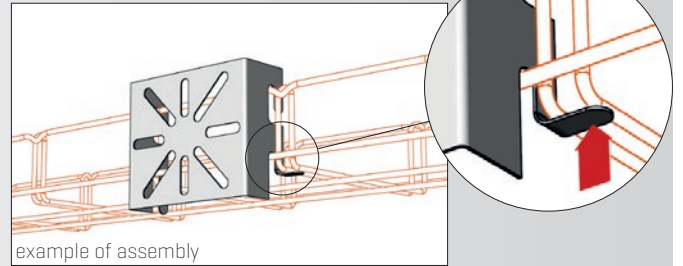
DZM 1 mounting plate



product code

GZ	ARK-214010
ZZ	ARK-224010
A2	ARK-234010
A4	* ARK-244010

The DZM 1 mounting plate serves to attach distribution boxes and other elements [sockets, switches, etc.] directly to the cable route. The holder is secured to the mesh tray by means of at least one lip. The maximum load capacity of the holder is 5 kg.



example of assembly

For more details on sizes, please refer to the Technical Annex, p. 74-87

DZM 2 threaded rod hanger



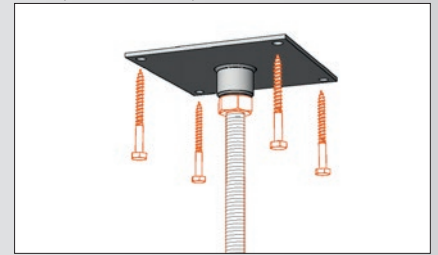
product code

GZ	ARK-214020
A2	ARK-234020

The DZM 2 hanger serves for spatial assemblies, anchoring threaded rods M8 to the ceiling [wooden, hourdis, etc.], or under any horizontal part of a building where metal dowels set in concrete cannot be used.

The maximum load capacity of the holder is 150 kg.

example of assembly

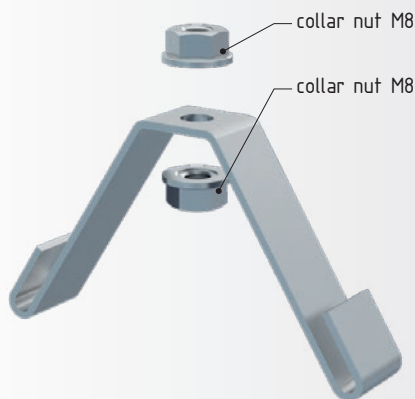


For more details on sizes, please refer to the Technical Annex, p. 74-87

DZM 3/100 central hanger



Components shown in the figure are included in the package.



product code

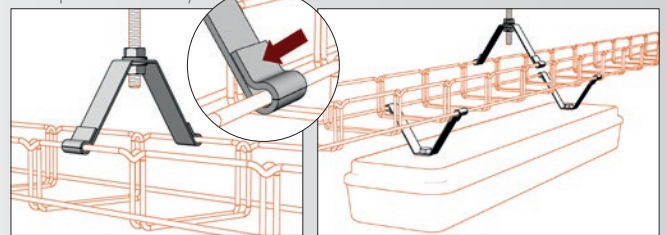
GZ	ARK-214030
ZZ	ARK-224030
A2	ARK-234030
A4	ARK-244030

connecting element options:
 0 - electro-galvanized [GZ]
 2 - geomet 500 [G5]
 3 - stainless steel AISI 304 [A2]

The DZM 3/100 central hanger serves for suspending 100 mm mesh trays from M8 threaded rods. It can also serve as a bearing element for the installation of various types of light fittings. Maximum recommended loading capacity is 50 kg.

This type of holder cannot be combined with mesh tray covers. If installation with a cover is required, it is necessary to use the PZM straight bracket [see p. 52 - 53] or DZM 6 holders [see p. 31].

example of assembly

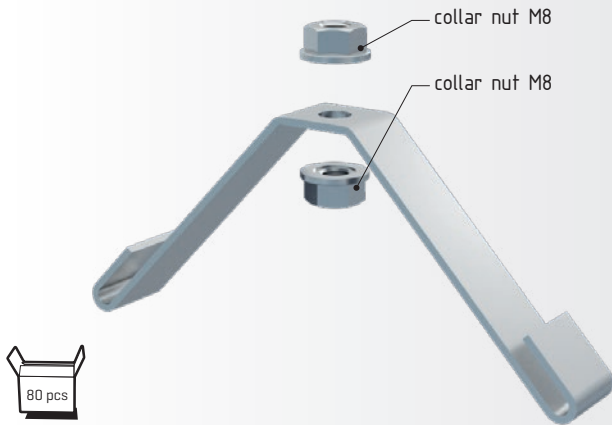


For more details on sizes, please refer to the Technical Annex, p. 74-87

[*] A4 parts are made-to-order.
 Price and availability information is provided upon request.

DZM 3/150 central hanger

Components shown in the figure are included in the package.

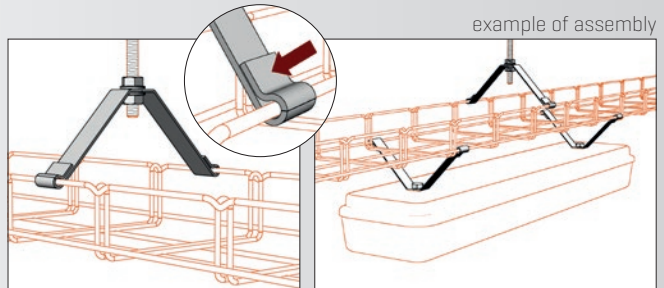


product code

GZ	ARK-214035	connecting element options: 5 - electro-galvanized (GZ) 7 - geomet 500 (GS) 8 - stainless steel AISI 304 (A2)
ZZ	ARK-224035	
A2	ARK-234035	
A4	* ARK-244035	

The DZM 3/10 central hanger serves for suspending 150 mm mesh trays from M8 threaded rods. It can also serve as a bearing element for the installation of various types of light fittings. Maximum recommended loading capacity is 50 kg.

This type of holder cannot be combined with mesh tray covers. If installation with a cover is required, it is necessary to use the PZM straight bracket [see p. 52 - 53] or DZM 6 holders [see p. 31].

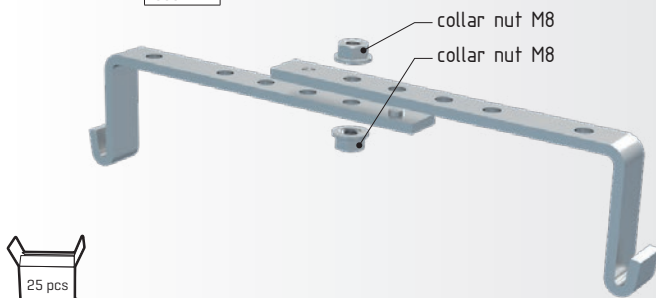


For more details on sizes, please refer to the Technical Annex, p. 74-87

DZM 4 adjustable central hanger

Components shown in the figure are included in the package.

L (holder spacing)	200 mm
	250 mm
	300 mm

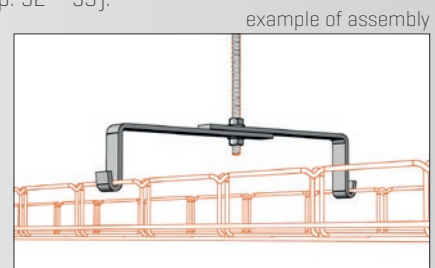


product code

GZ	ARK-214040	connecting element options: 0 - electro-galvanized (GZ) 2 - geomet 500 (GS) 3 - stainless steel AISI 304 (A2)
ZZ	ARK-224040	
A2	ARK-234040	

The DZM 4 central hanger serves for suspending 200 - 300 mm wide mesh trays from M8 threaded rods. It is not designed for trays of 100 mm width. Maximum recommended loading capacity is 80 kg.

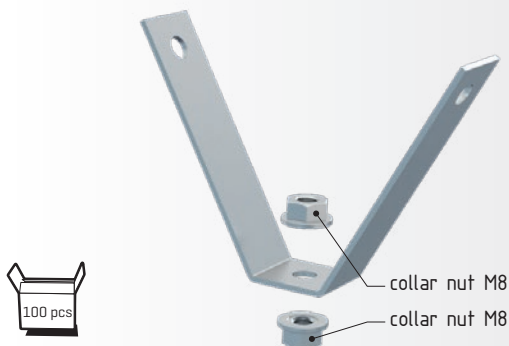
This type of holder cannot be combined with mesh tray covers. If installation with a cover is required, it is necessary to use the PZM straight bracket [see p. 52 - 53].



For more details on sizes, please refer to the Technical Annex, p. 74-87

DZM 5 trapezoidal sheet hanger

Components shown in the figure are included in the package.

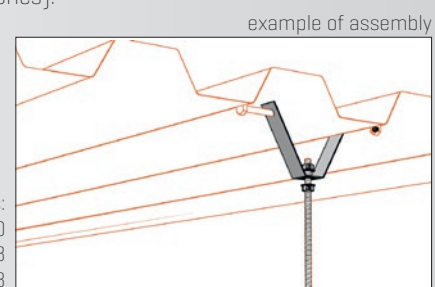


product code

GZ	ARK-214050	connecting element options: 0 - electro-galvanized (GZ) 2 - geomet 500 (GS) 3 - stainless steel AISI 304 (A2)
ZZ	ARK-224050	
A2	ARK-234050	
A4	* ARK-244050	

The DZM 5 hanger serves to anchor M8 threaded rods in roofs and soffits with trapezoidal sheet metal cladding. Maximum recommended loading capacity - 60 kg.

Trapezoid scissors are recommended for cutting the sheets [see p. 60, chapter Accessories].



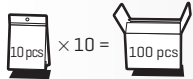
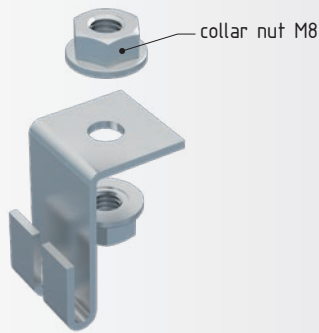
Applied connecting elements:
1x hexagonal bolt M8x100 - 140
1x nut M8
1x washer M8

For more details on sizes, please refer to the Technical Annex, p. 74-87

DZM 6 side hanger



Components shown in the figure are included in the package.



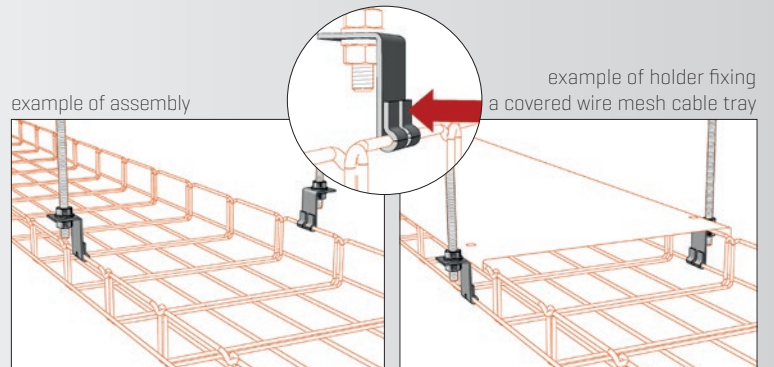
product code

GZ	ARK-214060
ZZ	ARK-224060
A2	ARK-234060
A4	* ARK-244060

connecting element options:
 0 - electro-galvanized (GZ)
 2 - geomet 500 (G5)
 3 - stainless steel AISI 304 (A2)

The DZM 6 hanger is used in pairs to suspend wire mesh cable trays from M8 threaded rods. Maximum recommended load capacity of a single hanger is 20 kg, while maximum recommended load capacity of a pair of holders is 50 kg.

If the mesh tray is covered, the DZM 6 hanger shall be attached to the bottom wire of the side wall.

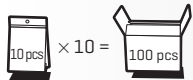
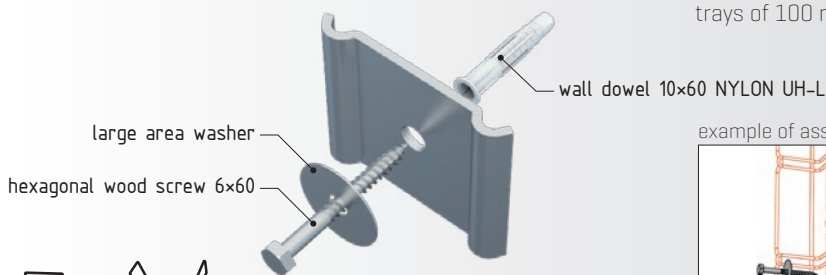


For more details on sizes, please refer to the Technical Annex, p. 74-87

DZM 7 wall bracket



Components shown in the figure are included in the package.

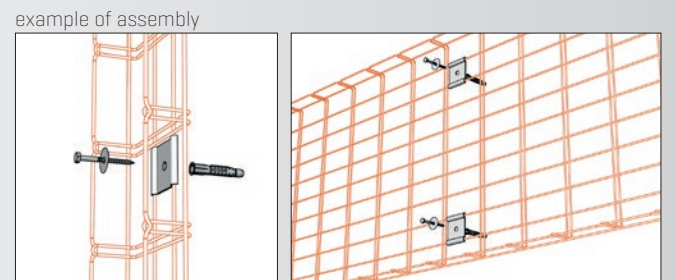


product code

GZ	ARK-214070
ZZ	ARK-224070
A2	ARK-234070
A4	* ARK-244070

connecting element options:
 0 - electro-galvanized (GZ)
 3 - stainless steel AISI 304 (A2)

The DZM 7 wall bracket serves to anchor wire mesh cable trays in horizontal and vertical routes upon walls. It is not designed for trays of 100 mm width.



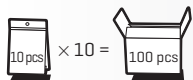
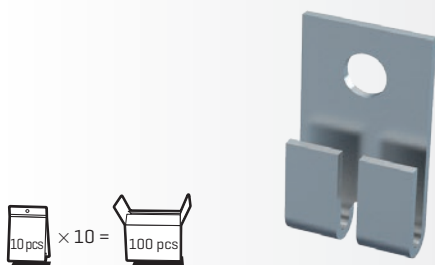
For more details on sizes, please refer to the Technical Annex, p. 74-87

DZM 8 wall bracket



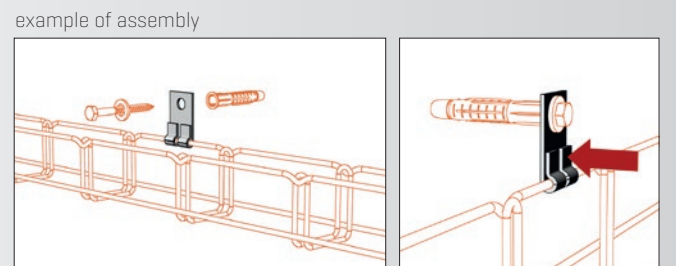
The DZM 8 wall bracket serves for anchoring wire mesh cable trays directly into the vertical parts of a building. Maximum recommended loading capacity - 40 kg.

The maximum recommended width of the wire mesh cable tray is 50 and 100 mm, depending upon the mass loading of the mesh tray.



product code

GZ	ARK-214080
ZZ	ARK-224080
A2	ARK-234080
A4	* ARK-244080

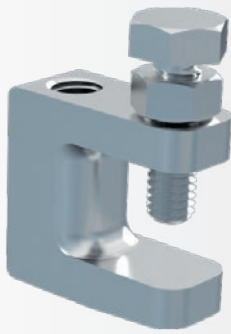


For more details on sizes, please refer to the Technical Annex, p. 74-87

[*] A4 parts are made-to-order.
 Price and availability information is provided upon request.

DZM 9 beam clamp

Components shown in the figure are included in the package.



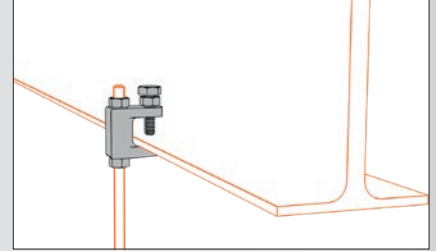
product code

GZ ARK-214090

The DZM 9 beam clamp serves to anchor M8 threaded rods in a spatial assembly by suspension on an "I" profile.

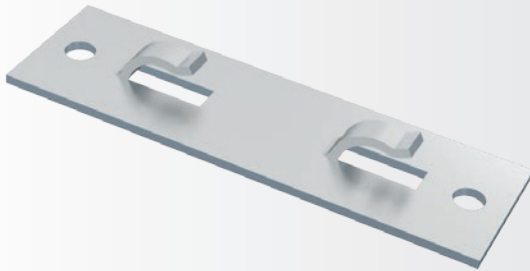
The maximum recommended load of the clamp is 120 kg.
Material: tempered cast iron, zinc-plated.

example of assembly



For more details on sizes, please refer to the Technical Annex, p. 74-87

DZM 10 wall bracket



product code

GZ ARK-214100

ZZ ARK-224100

A2 ARK-234100

A4 * ARK-244100

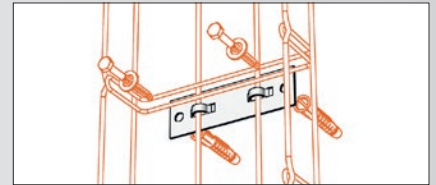
Due to its universality, the DZM 10 wall bracket can be used in multiple installation types for both vertical and horizontal mounting.

It is preferable especially in metal structures to which it can be welded or attached by bolts. It is not designed technically for trays of 100 mm width.

Maximum recommended loading capacity of hooks:

- in pulling 30 kg – in case of wall installation
- in torsion 10 kg – in case of ceiling installation

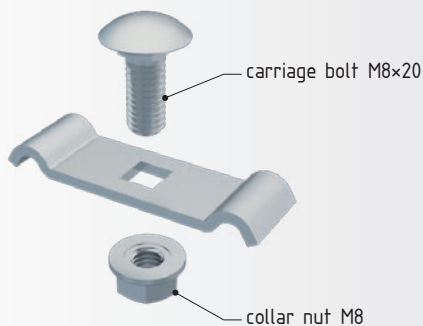
example of assembly



For more details on sizes, please refer to the Technical Annex, p. 74-87

DZM 11 fixing bracket

Components shown in the figure are included in the package.



product code

GZ ARK-214110

ZZ ARK-224112

A2 ARK-234110

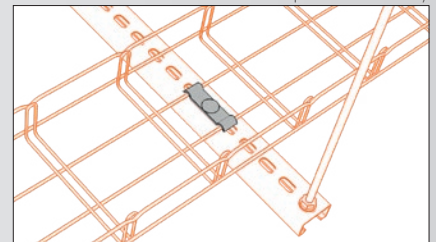
A4 * ARK-244110

connecting element options:
2 - geomet 500 (G5)
3 - stainless steel AISI 304 (A2)

The DZM 11 fixing bracket serves to anchor mesh trays to STNM rail struts or other steel constructions, especially with horizontal cable routes.

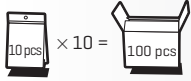
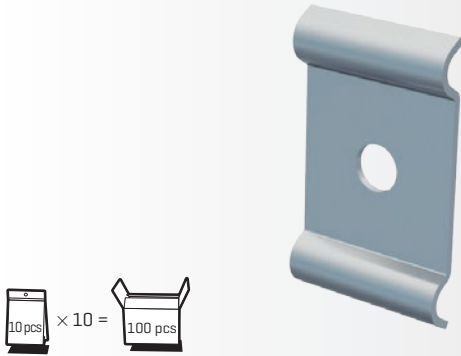
Note - With a mesh tray of 100 mm width, the bracket is fixed to only one of the runners.

example of assembly



For more details on sizes, please refer to the Technical Annex, p. 74-87

DZM 12 wall bracket



product code

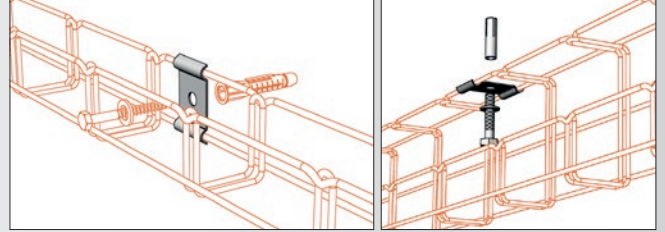
GZ	ARK-214120
ZZ	ARK-224120
A2	ARK-234120
A4	* ARK-244120

The DZM 12 wall bracket serves for anchoring wire mesh cable trays of smaller dimensions directly to vertical parts of the construction.

The maximum recommended width of the wire mesh cable tray is 150 mm, depending on the mass load of the tray.

The DZM 12 wall bracket is also suitable as an anchoring element for M2 cable trays of the "G" type.

example of assembly

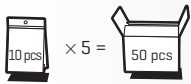
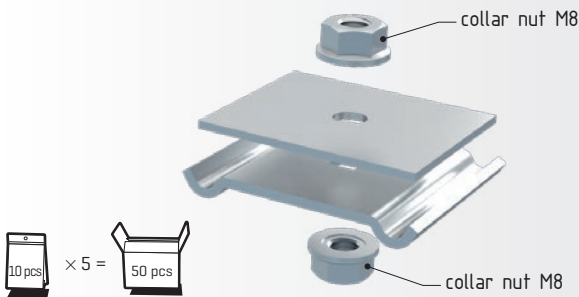


For more details on sizes, please refer to the Technical Annex, p. 74-87

DZM 13 suspension hanger



Components shown in the figure are included in the package.



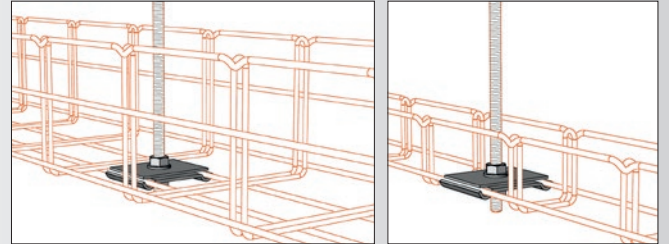
product code

GZ	ARK-214130
ZZ	ARK-224130
A2	ARK-234130
A4	ARK-244130

connecting element options:
 0 - electro-galvanized (GZ)
 2 - geomet 500 (G5)
 3 - stainless steel AISI 304 (A2)

The DZM 13 suspension hanger is used for wire mesh cable trays on M8 threaded rods. This installation is suitable for wire mesh cable trays M2 50/50, M2 150/50 and M2 150/100 only. Maximum recommended loading capacity is 50 kg.

example of assembly

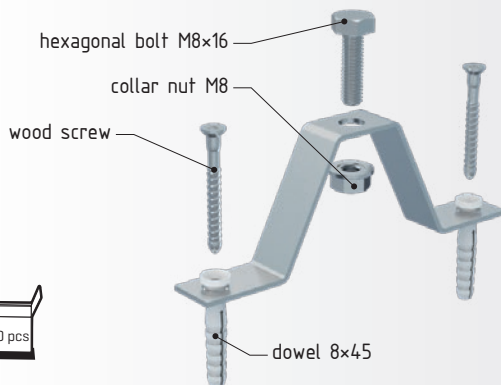


For more details on sizes, please refer to the Technical Annex, p. 74-87

DZM 14 floor bracket



Components shown in the figure are included in the package.



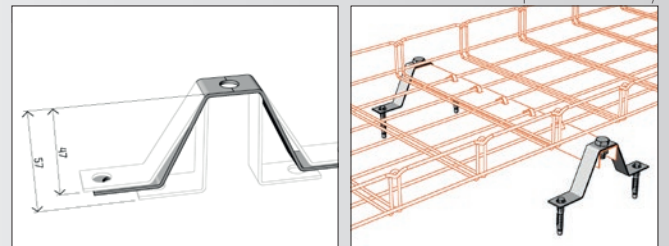
product code

GZ	ARK-214140
ZZ	ARK-224140
A2	ARK-234140
A4	* ARK-244140

connecting element options:
 0 - electro-galvanized (GZ)
 3 - stainless steel AISI 304 (A2)

The DZM 14 floor bracket serves in combination with PZM straight brackets for cable route installations in false floors. Their height can be adjusted to 47 - 57 mm by bending the holder. Maximum recommended loading capacity is 60 kg.

example of assembly

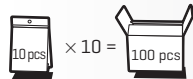
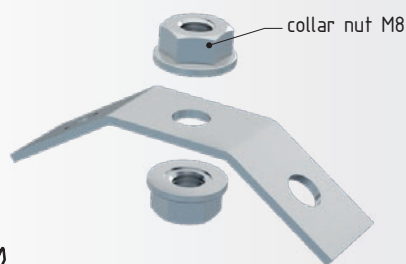


For more details on sizes, please refer to the Technical Annex, p. 74-87

[*] A4 parts are made-to-order.
 Price and availability information is provided upon request.

DZM 15 suspension hanger

Components shown in the figure are included in the package.

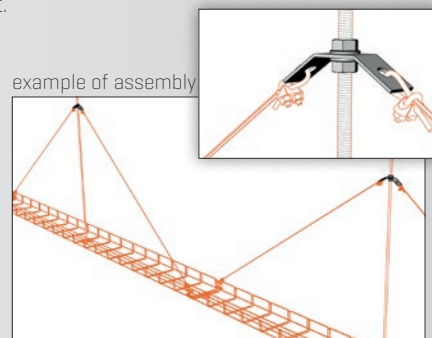


product code

GZ	ARK-214150
ZZ	ARK-224150
A2	ARK-234150
A4	* ARK-244150

connecting element options:
 0 – electro-galvanized (GZ)
 2 – geomet 500 (GS)
 3 – stainless steel AISI 304 (A2)

The DZM 15 suspension hanger is used for anchoring suspension cable to threaded rod. It is designed for cable suspension in places where it is necessary to cross the space without the chance of direct anchoring to the soffit.



For more details on sizes, please refer to the Technical Annex, p. 74-87

DZM STP mounting profile head



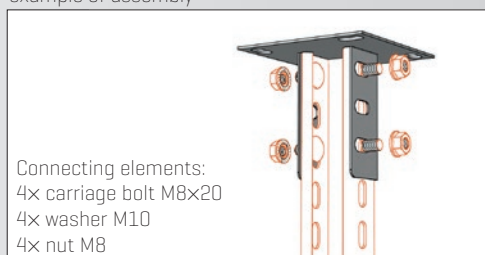
product code

GZ	ARK-214300
ZZ	ARK-224300
A2	ARK-234304
A4	* ARK-244304

The DZM STP mounting profile head serves for anchoring STPM rail struts with side perforations [see p.54] of spatial mounting under horizontal building structures. The holder can be turned by 180° and used as a floor bracket.

The maximum pull load capacity of the DZM STP is 250 kg.

example of assembly



For more details on sizes, please refer to the Technical Annex, p. 74-87

DZM STPU angular mounting profile head



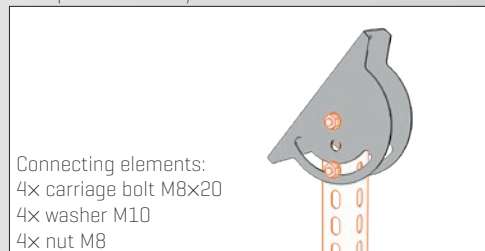
product code

ZZ	ARK-224310
A2	ARK-234310
A4	* ARK-244310

The DZM STPU angular mounting profile head is used for anchoring STPM rail struts with side perforations [see p. 54] of spatial mounting under horizontal constructions in situations where it is necessary to compensate an angular difference between the angle of the soffit with the horizontal plane.

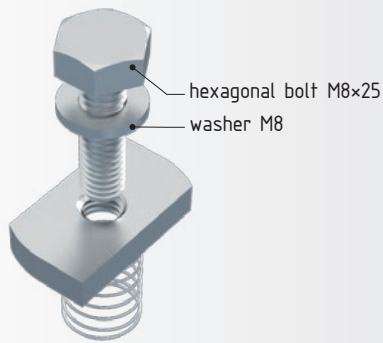
The maximum pull load capacity of the DZM STPU is 150 kg.

example of assembly



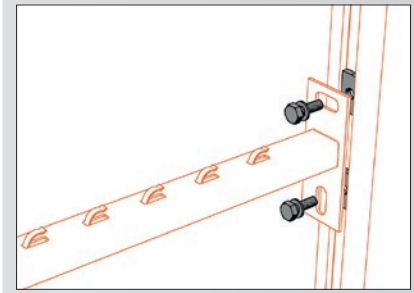
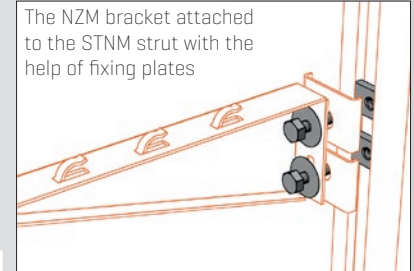
For more details on sizes, please refer to the Technical Annex, p. 74-87

MSM rectangular nut with spring



The rectangular MSM nut serves for anchoring brackets to struts in combination with the PVM fixing plate. It is redundant with NPZM brackets due to its sturdy base.

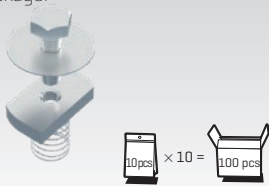
example of assembly



For more details on sizes, please refer to the Technical Annex, p. 74-87

MSM/M6

Components shown in the figure are included in the package.

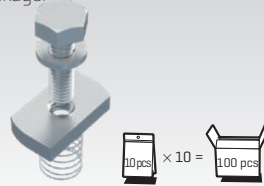


intended only for NZM and NZMU brackets of sizes 50, 100, 150, 200.

product code
GZ ARK-218951
A2 ARK-238951

MSM/M8

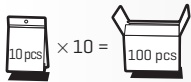
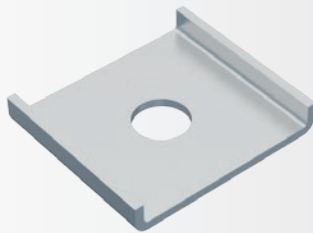
Components shown in the figure are included in the package.



intended for NZM and NZMU brackets of sizes 250, 300, 400, 500 and for NPZM brackets

product code
GZ ARK-218952
A2 ARK-238952

PVM rail strut fixing clamp

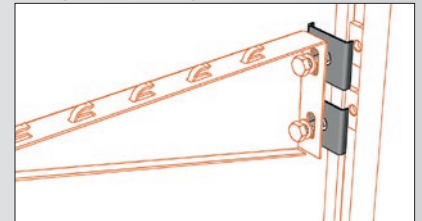


product code

GZ ARK-218953
ZZ ARK-228953
A2 ARK-238953
A4 * ARK-248953

The PVM fixing clamp serves for centring NZM and NZMU brackets when anchoring them to a rail strut. It is redundant with NPZM brackets due to its sturdy base.

example of assembly

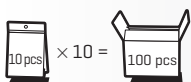
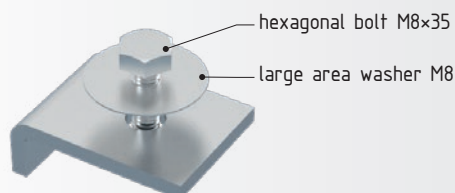


For more details on sizes, please refer to the Technical Annex, p. 74-87

PIM I profile fixing clamp



Components shown in the figure are included in the package.



product code

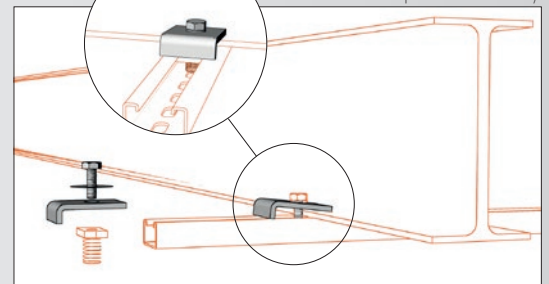
GZ ARK-218960
ZZ ARK-228960
A2 ARK-238960
A4 * ARK-248960

connecting element options:
0 - electro-galvanized (GZ)
3 - stainless steel AISI 304 (A2)

The MSM/M8 rectangular nut is not included in the package.

The PIM I profile fixing clamp, combined with rectangular nut MSM/M8, serves for attaching I-profile brackets to struts, the maximum section of the I-beam being 15 mm.

example of assembly

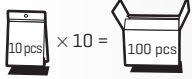
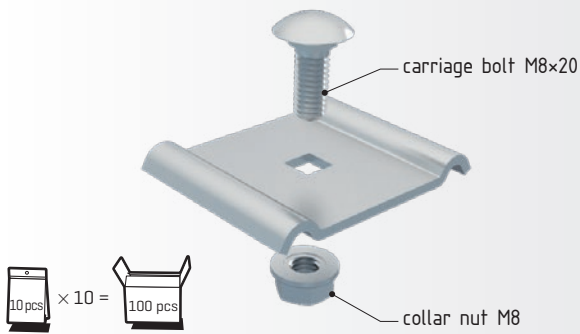


For more details on sizes, please refer to the Technical Annex, p. 74-87

[*] A4 parts are made-to-order.
Price and availability information is provided upon request.

PZSM 2 fixing clamp

Components shown in the figure are included in the package.



product code

GZ ARK-218956

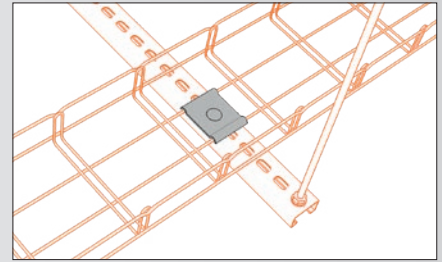
ZZ ARK-228956

A2 ARK-238956

connecting element options:
6 – geomet 500 (G5)
8 – stainless steel AISI 304 (A2)

The PZSM 2 fixing clamp serves for connecting MERKUR 2 mesh trays to STNM profile struts or to STPM profile struts with side perforations, especially in horizontal fire-resistant cable routes. The PZSM 2 fixing clamp is only used for tray bottoms (technically, it is not intended for trays of 100 mm width).

example of assembly



For more details on sizes, please refer to the Technical Annex, p. 74–87

SSPM splice plate



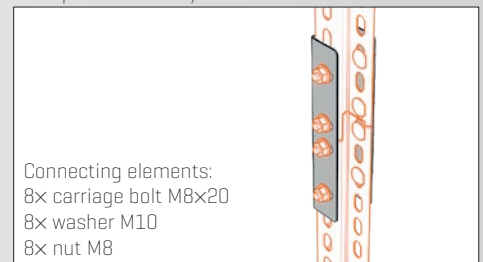
product code

ZZ ARK-223095

The SSPM splice plate serves for joining two STPM profile struts with side perforations (see p. 54).

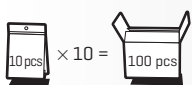
A good quality connection requires using no less than the connecting elements specified in the figure.

example of assembly



For more details on sizes, please refer to the Technical Annex, p. 74–87

SVSM fixing plate

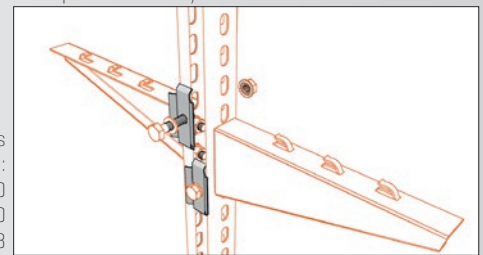


product code

GZ ARK-218958

The SVSM fixing plate is used for reinforcing the open profile of the STPM profile strut with side perforations in place of anchoring the brackets in installations with functional integrity. For brackets with a small base [NZM 50-200] one piece is used. For brackets with a larger base [NZM 250-500] a pair should always be used. Correctly installed stabilizing setting will prevent the sideboard of the strut from bending inwards under the pressure of the loaded bracket.

example of assembly



Connecting elements for one SVSM setting:
1x bolt M8x50
1x washer M10
1x collared nut M8

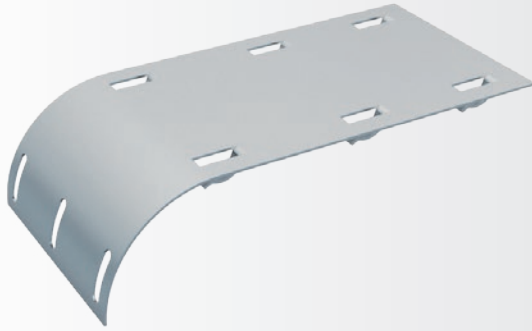
For more details on sizes, please refer to the Technical Annex, p. 74–87

KSM drop-out plate



The KSM drop-out plate is used to guide the cable bunch safely out of the tray.

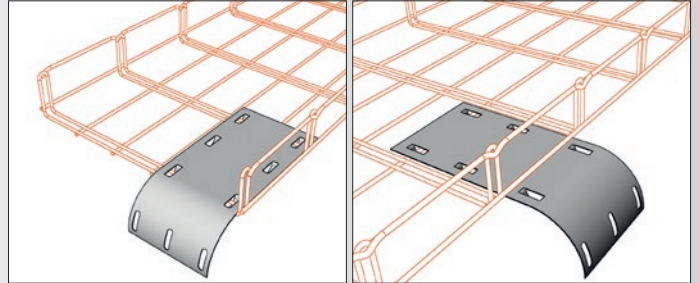
It protects the cabling against mechanical damage, while ensuring the minimum bending radius of the cables [may not be used for 50/50 trays in parallel direction].



product code

GZ	ARK-212410
ZZ	ARK-222410
A2	ARK-232410

example of assembly

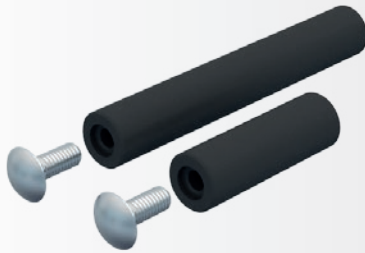


For more details on sizes, please refer to the Technical Annex, p. 74-87

KOM cable separator



Components shown in the figure are included in the package.

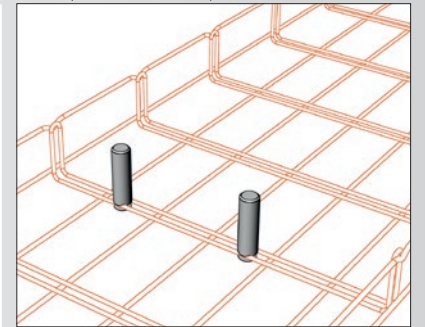


The KOM cable separator is used prior to the insertion of cables to divide the space temporarily (e.g. power circuits/low-voltage) in a greater number of chambers, which makes subsequent bundling of cables easier.

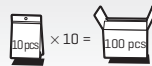
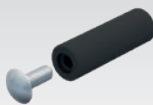
The advantage of these KOM separators lies in their design - they may be fixed in any part of the double beam of the tray over its whole width, thus facilitating the installation and transparency for a greater number of cable chambers.

When the bundling is ready, the KOM separators can be removed and then used anew.

example of assembly



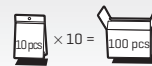
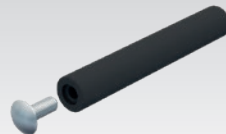
KOM 50



intended for cable trays of 50 mm height

plastic product code **ARK-219975**

KOM 100

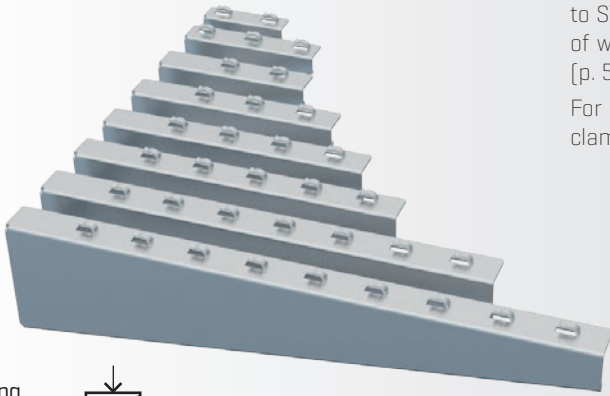


intended for cable trays of 100 mm height

plastic product code **ARK-219975**

For more details on sizes, please refer to the Technical Annex, p. 74-87

NZM bracket



loading capacity



NZM 50	30 kg
NZM 100	40 kg
NZM 150	45 kg
NZM 200	50 kg
NZM 250	75 kg
NZM 300	100 kg
NZM 400	120 kg
NZM 500	150 kg

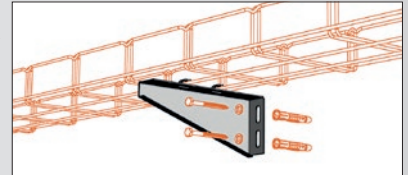
To ensure correct functioning of the brackets and to achieve their nominal loading capacity, it is important to maintain an even distribution of weight along their length.

NZM-series brackets are used as wall bearing elements for wall mounting of cable routes. For spatial installations, the brackets are anchored to STPM rail struts with side perforations. In case of a greater number of wall mounted parallel tracks, the combination with STNM rail strut [p. 55] can be used.

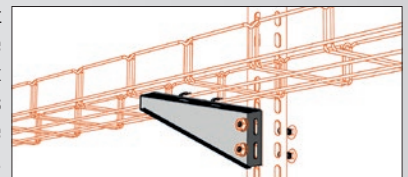
For easy installation of trays, the brackets are equipped with boltless clamps.

Wall mounting

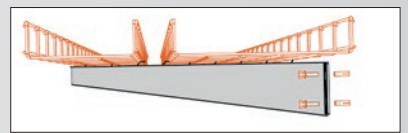
This execution serves for anchoring cable routes directly to the masonry or another vertical construction.

**Mounting on strut**

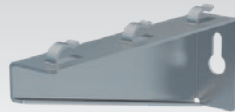
It is used for spatial cable routes or for complex wall-mounting cable tracks stacked one above the other.

**Complex mounting**

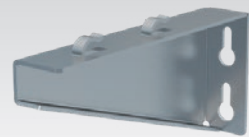
for more trays on one cantilever.

**NZM 50**

product code	
GZ	ARK-215005
ZZ	ARK-225005
A2	ARK-235005
A4	ARK-245005

NZM 100

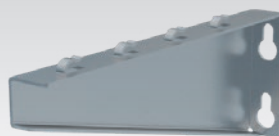
product code	
GZ	ARK-215010
ZZ	ARK-225010
A2	ARK-235010
A4	ARK-245010

NZM 150

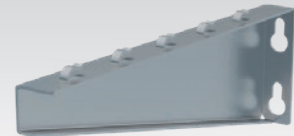
product code	
GZ	ARK-215015
ZZ	ARK-225015
A2	ARK-235015
A4	ARK-245015

NZM 200

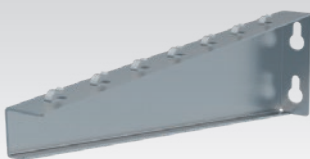
product code	
GZ	ARK-215020
ZZ	ARK-225020
A2	ARK-235020
A4	ARK-245020

NZM 250

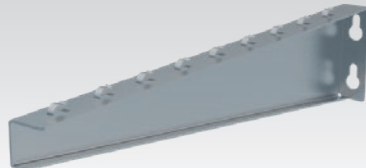
product code	
GZ	ARK-215025
ZZ	ARK-225025
A2	ARK-235025
A4	* ARK-245025

NZM 300

product code	
GZ	ARK-215030
ZZ	ARK-225030
A2	ARK-235030
A4	* ARK-245030

NZM 400

product code	
GZ	ARK-215040
ZZ	ARK-225040
A2	ARK-235044
A4	* ARK-245044

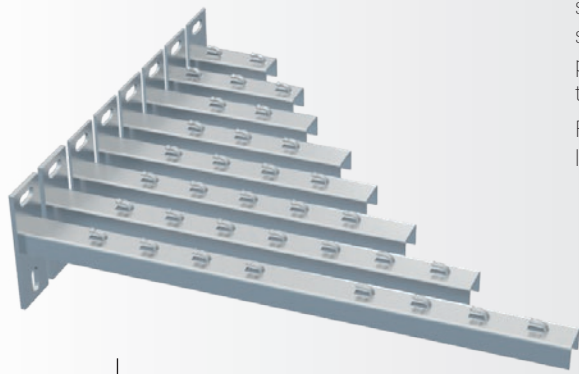
NZM 500

product code	
GZ	ARK-215050
ZZ	ARK-225050
A2	ARK-235054
A4	* ARK-245054

For more details on sizes, please refer to the Technical Annex, p. 74-87

Information on cantilevers and tray assembly options on p. 51

NPZM bracket



NPZM brackets are used as wall supporting elements for cable route mounting, their crucial technical advantage being simple and fast installation of anchoring elements. In case these cantilevers are used in spatial installations, they are anchored into STPM rail struts with side perforations. In case of vertical wall mounting of several cable tracks, they are anchored into STNM rail struts [see p. 55].

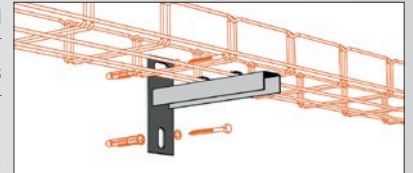
For easy pathway installation, the cantilevers are equipped with bolt-less clamps.

loading capacity	
NPZM 50	90.0 kg
NPZM 100	88.3 kg
NPZM 150	86.7 kg
NPZM 200	85.0 kg
NPZM 250	81.7 kg
NPZM 300	80.0 kg
NPZM 400	78.3 kg
NPZM 500	75.0 kg

To ensure correct functioning of the brackets and to achieve their nominal loading capacity, it is important to maintain an even distribution of weight along their length.

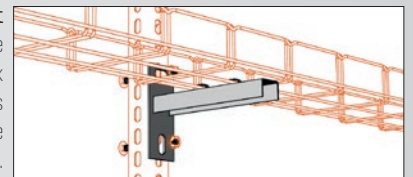
Wall mounting

This execution serves for anchoring cable routes directly to the masonry or another vertical construction.



Mounting on strut

It is used for spatial cable routes or for complex wall-mounting cable tracks stacked one above the other.



Complex mounting

for more trays on one cantilever.

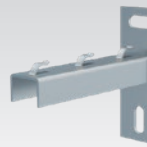


NPZM 50



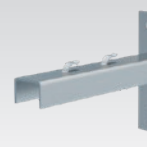
product code
GZ ARK-215105
ZZ ARK-225105

NPZM 100



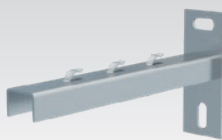
product code
GZ ARK-215110
ZZ ARK-225110

NPZM 150



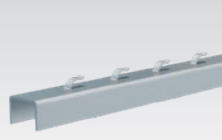
product code
GZ ARK-215115
ZZ ARK-225115

NPZM 200



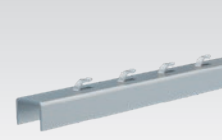
product code
GZ ARK-215120
ZZ ARK-225120

NPZM 250



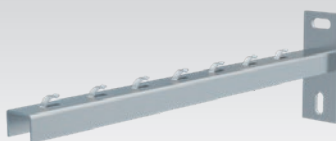
product code
GZ ARK-215125
ZZ ARK-225125

NPZM 300



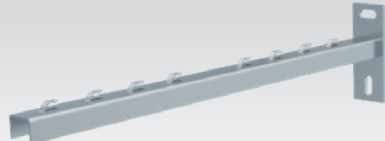
product code
GZ ARK-215130
ZZ ARK-225130

NPZM 400



product code
GZ ARK-215140
ZZ ARK-225140

NPZM 500



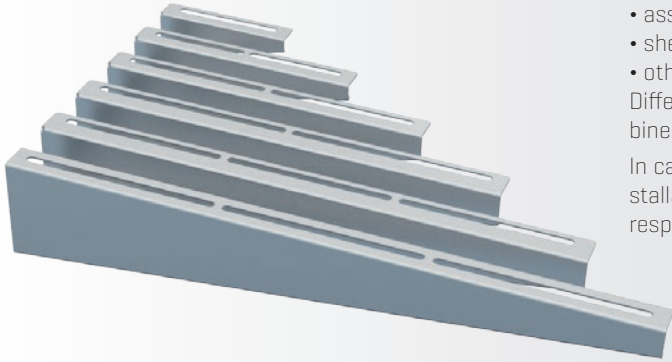
product code
GZ ARK-215150
ZZ ARK-225150

For more details on sizes, please refer to the Technical Annex, p. 74-87

Information on cantilevers and tray assembly options on p. 51

[*] A4 parts are made-to-order. Price and availability information is provided upon request.

NZMU universal bracket



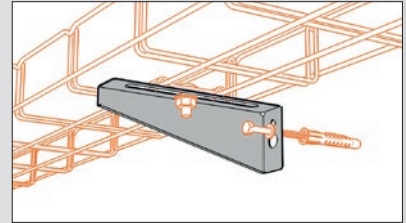
NZMU universal brackets are used as wall bearing elements for wall mounting of cable routes. Their universality allows:

- assembly of MERKUR 2 mesh trays with the DZM 11 holder
 - sheet steel trays with carriage bolt and nut
 - other media [water supply/heating] with the corresponding clamps
- Different cable trays and media installed on the bracket may be combined if necessary.

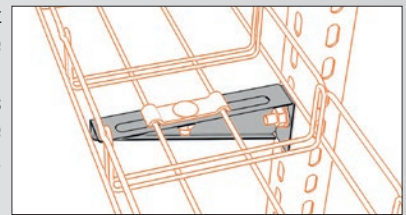
In case of several wall-mounted parallel cable routes or for spatial installation, the STNM or STPM rail struts may be used with their corresponding holders.

Wall mounting

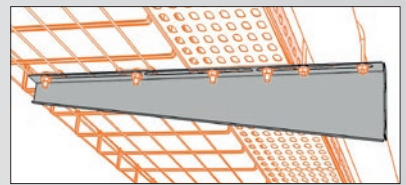
This execution serves for anchoring cable routes directly to the masonry or another vertical construction.

**Mounting on strut**

It is used for spatial cable routes or for complex wall mounting cable tracks stacked one above the other.

**Complex mounting**

for more trays on one cantilever.

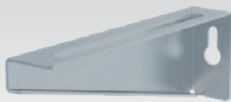


loading capacity



NZMU 100	40 kg
NZMU 200	50 kg
NZMU 300	75 kg
NZMU 400	100 kg
NZMU 500	120 kg
NZMU 600	150 kg

To ensure correct functioning of the brackets and to achieve their nominal loading capacity, it is important to maintain an even distribution of weight along their length.

NZMU 100

product code
GZ ARK-215310
ZZ ARK-225310
A2 ARK-235310

NZMU 200

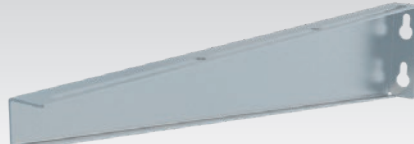
product code
GZ ARK-215320
ZZ ARK-225320
A2 ARK-235320

NZMU 300

product code
GZ ARK-215330
ZZ ARK-225330
A2 ARK-235330

NZMU 400

product code
GZ ARK-215340
ZZ ARK-225340
A2 ARK-235344

NZMU 500

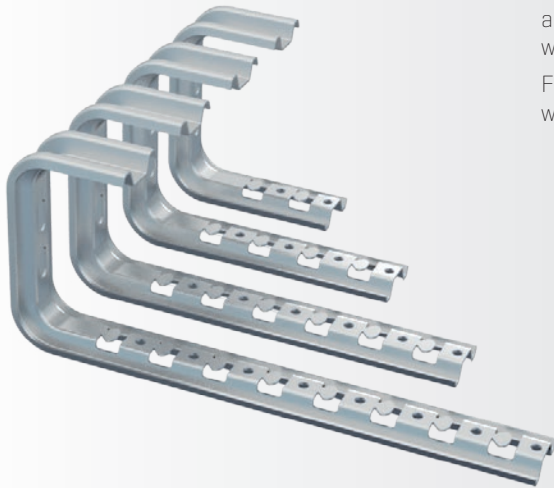
product code
GZ ARK-215350
ZZ ARK-225350
A2 ARK-235354

NZMU 600

product code
GZ ARK-215360
ZZ ARK-225360
A2 ARK-235364

For more details on sizes, please refer to the Technical Annex, p. 74–87

NZMC universal cantilever arm



NZMC series universal cantilever arms are mainly used as bearing elements for installations under the ceiling. Their major advantage is easy access to mesh trays when laying cables, which is otherwise impossible, with the exception of certain more complex design solutions.

For easy wire mesh cable tray installation, the cantilever arms are provided with boltless grips.

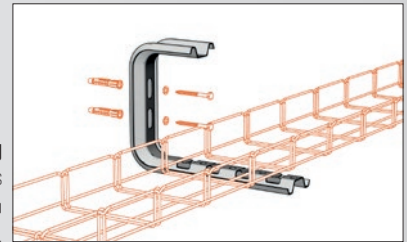
Ceiling mounting

serves to anchor cable routes running under the ceiling or suspended from another horizontal structure.



Wall mounting

serves to anchor cable routes directly into the masonry or to another vertical building structure.



NZMC 100



CAUTION !!! designed for mesh tray 50/50 only

product code
SZ ARK-225210

loading capacity			max. tray width
NZMC 100	140 kg	85 kg	50 mm
NZMC 200	90 kg	50 kg	200 mm
NZMC 300	50 kg	30 kg	300 mm
NZMC 400	37 kg	23 kg	400 mm

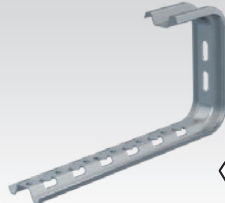
NZMC 200



this cantilever arm is also intended for 100 mm mesh trays

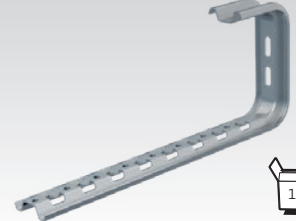
product code
SZ ARK-225220

NZMC 300



product code
SZ ARK-225230

NZMC 400



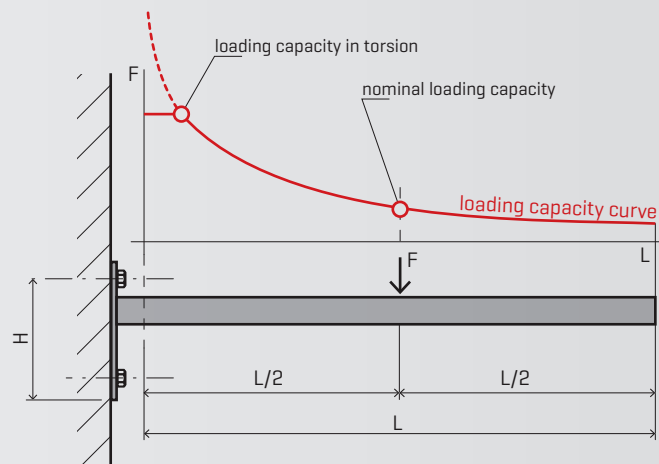
product code
SZ ARK-225240

For more details on sizes, please refer to the Technical Annex, p. 74-87

Rules for bracket anchoring and loading

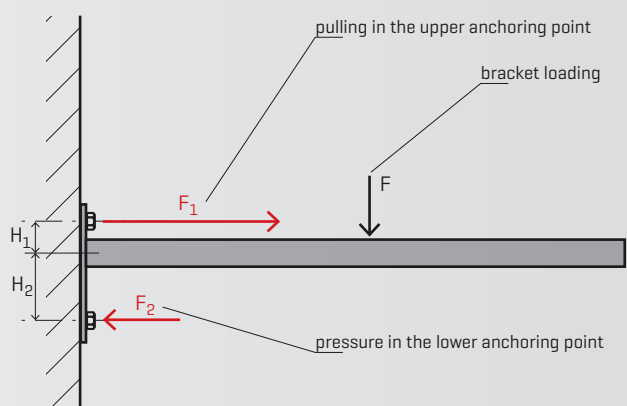
In order to meet the declared values of cable route loading capacity, it is necessary to follow a few rules during assembly and laying cabling into trays.

Optimum loading distribution

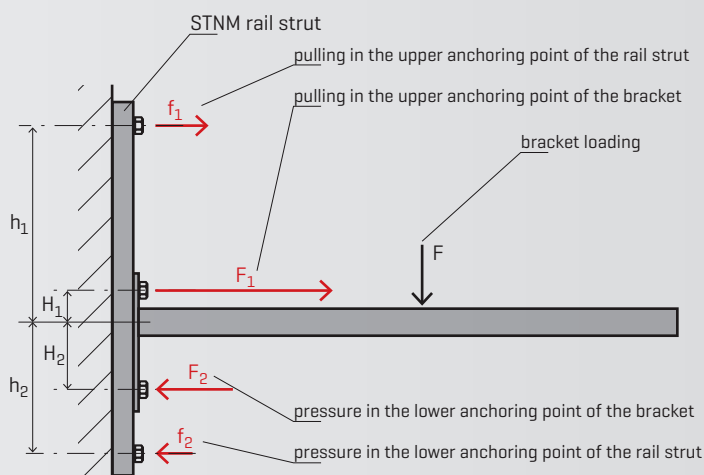


The loading capacity of a cable route is affected by distribution alongside the bracket. Declared values of various brackets apply to even loading distribution. The resultant of forces is placed in the centre and corresponds to the sum of weights of the cables. In case it is not possible or suitable to ensure even loading distribution, it is important that cables of greater weight be lain closer to the bracket base. If even this is impossible, it is necessary to expect reduced loading capacity which is reduced proportionally to the asymmetry of the loading [see picture and chart on the left].

Correctly chosen and installed anchoring



The capacity of the anchoring points is usually the most crucial parameter of a cable route. The distribution of forces implies that the most stressed point is the higher one of both anchoring points and it is most stressed in pulling. Therefore, if a higher loading capacity is requested, it is necessary to examine the quality and type of wall materials in which the cable route is anchored over the whole length of the installation because the situation may vary greatly. The right choice of anchoring type and installation method is the decisive condition for achieving higher cable route loading capacity.



In case the wall quality does not allow sufficiently solid anchoring or if the wall quality cannot be examined, the option of installing brackets on the wall through STNM struts is advisable. In such case, the distribution of forces at anchoring points significantly improves and a higher loading capacity of the cable route is thus achieved. This option is suitable for the most loaded cable routes anchored directly to the wall.

Anchoring technology

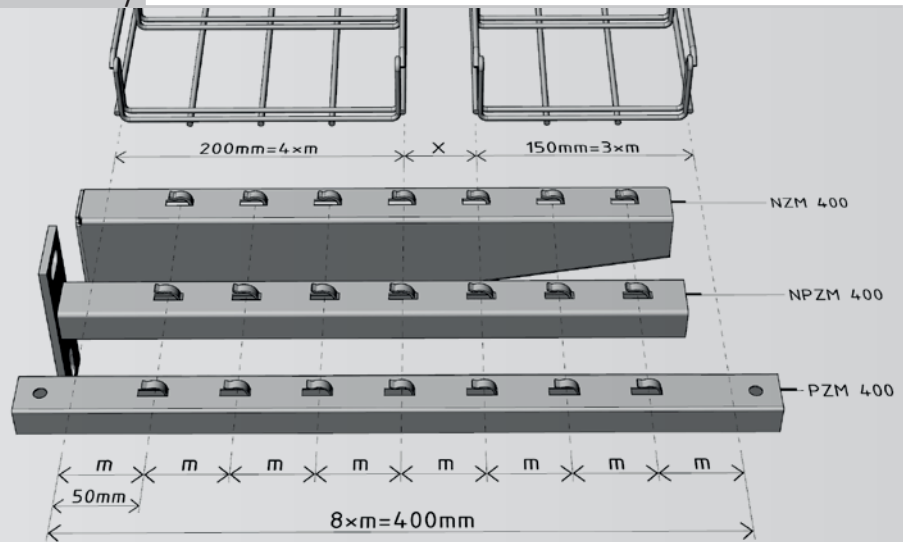


We offer a wide selection of anchoring elements from renowned suppliers that cover a full range of building situations and solve most common issues during cable route installation. See p. 49 for more details on anchoring or visit www.arkys.eu.

Tray combinations and assembly

MERKUR 2 support parts can carry many different tray combinations. Assembly options are governed by m - 50 mm number of support modules. If several trays are combined on one support, one module between particular trays is always lost.

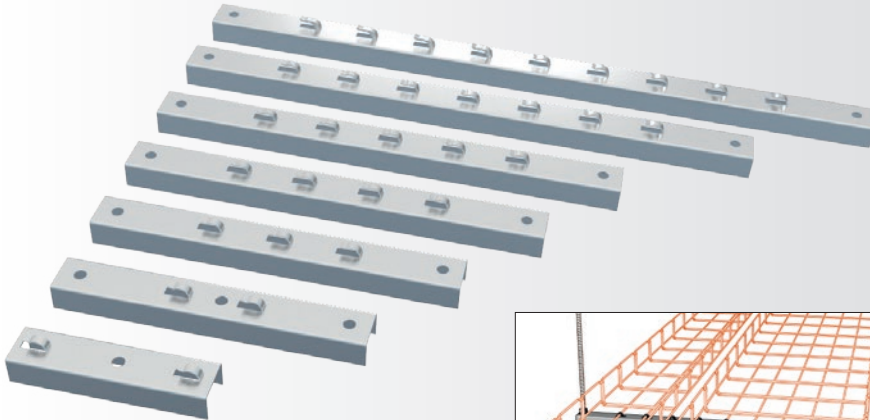
For a complete overview of assembly options and combinations of different trays and supports, please check www.arkys.eu [the section Tray combinations on holders and supports].



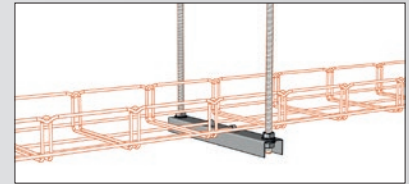
PZM straight bracket



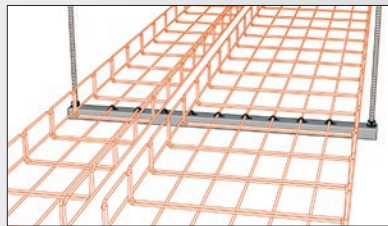
PZM series straight brackets are used in combination with pairs of M8 threaded rods as bearing elements in vertical cable route installations. However, they can also be used for wall mounting or, in combination with the DZM 14 floor bracket, for floor mounting (see p. 41). Boltless grips are provided for easy installation.



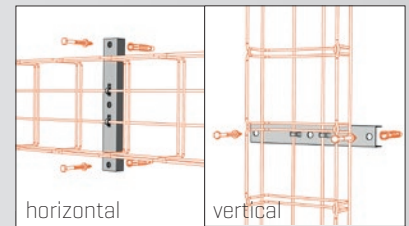
For more details on sizes, please refer to the Technical Annex, p. 74-87
Information on supports and trays assembly options on p. 51



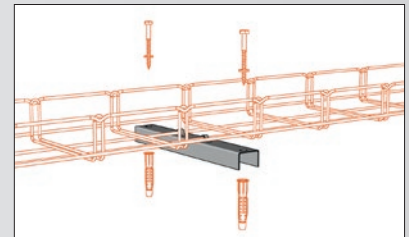
Mounting on threaded rod pairs
serves for suspended cable routes anchored directly into the ceiling.



Multiple route assembly
Multiple wire mesh cable trays can be attached to the straight brackets, up to the full capacity of each support.

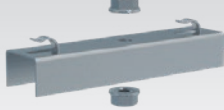


Wall mounting
serves for wall mounted cable routes.



Floor mounting
serves for horizontal cable routes anchored directly into the floor.

PZM 100

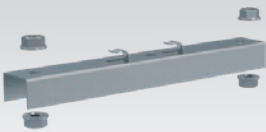


Components shown in the figure are included in the package

product code

GZ	ARK-216010	connecting element options: 0 - electro-galvanized (GZ) 2 - geomet 500 (G5) 3 - stainless steel AISI 304 (A2)
ZZ	ARK-226010	
A2	ARK-236010	
A4	ARK-246010	

PZM 150

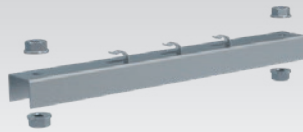


Components shown in the figure are included in the package

product code

GZ	ARK-216015	connecting element options: 5 - electro-galvanized (GZ) 7 - geomet 500 (G5) 8 - stainless steel AISI 304 (A2)
ZZ	ARK-226015	
A2	ARK-236015	
A4	ARK-246015	

PZM 200

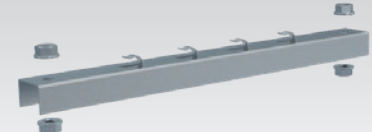


Components shown in the figure are included in the package

product code

GZ	ARK-216020	connecting element options: 0 - electro-galvanized (GZ) 2 - geomet 500 (G5) 3 - stainless steel AISI 304 (A2)
ZZ	ARK-226020	
A2	ARK-236020	
A4	ARK-246020	

PZM 250

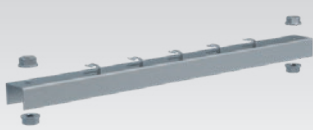


Components shown in the figure are included in the package

product code

GZ	ARK-216025	connecting element options: 5 - electro-galvanized (GZ) 7 - geomet 500 (G5) 8 - stainless steel AISI 304 (A2)
ZZ	ARK-226025	
A2	ARK-236025	
A4	* ARK-246025	

PZM 300

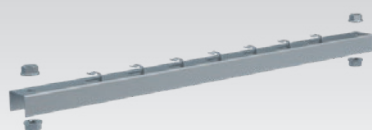


Components shown in the figure are included in the package

product code

GZ	ARK-216030	connecting element options: 0 - electro-galvanized (GZ) 2 - geomet 500 (G5) 3 - stainless steel AISI 304 (A2)
ZZ	ARK-226030	
A2	ARK-236030	
A4	* ARK-246030	

PZM 400

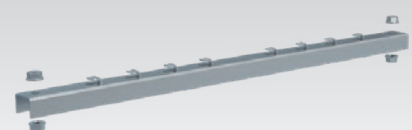


Components shown in the figure are included in the package

product code

GZ	ARK-216040	connecting element options: 0 - electro-galvanized (GZ) 2 - geomet 500 (G5) 3 - stainless steel AISI 304 (A2)
ZZ	ARK-226040	
A2	ARK-236040	
A4	* ARK-246040	

PZM 500



Components shown in the figure are included in the package

product code

GZ	ARK-216050	connecting element options: 0 - electro-galvanized (GZ) 2 - geomet 500 (G5) 3 - stainless steel AISI 304 (A2)
ZZ	ARK-226050	
A2	ARK-236050	
A4	* ARK-246050	

[*] A4 parts are made-to-order.

Price and availability information is provided upon request.

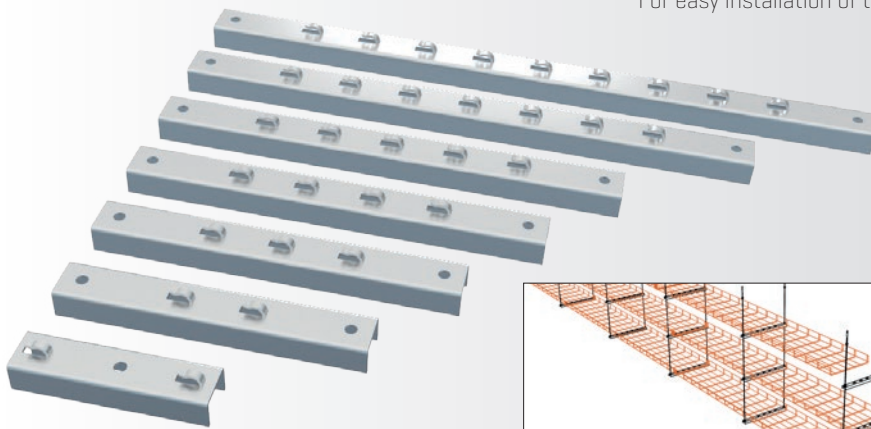
PZMP straight bracket - fire resistant



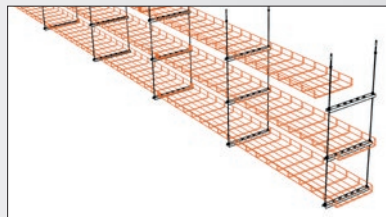
PZMP straight brackets are tested for fire resistance acc. to temperature curves P and PH. They can be used for:

- suspended spatial assembly, in combination with an M8 threaded rod
- horizontal or vertical wall assembly
- ceiling assembly

For easy installation of tracks they are equipped with boltless clamps.

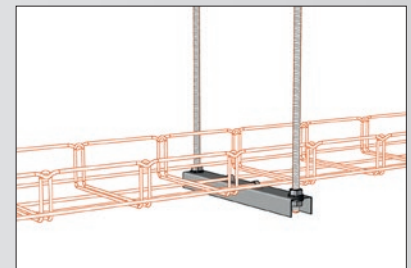


For more details on sizes, please refer to the Technical Annex, p. 74-87
Information on supports and trays assembly options on p. 51



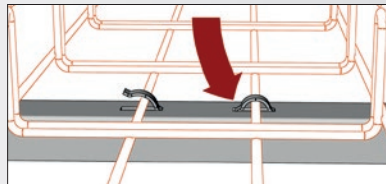
Suspended mounting

Threaded rods can carry multiple cable trays one above the another. The wire mesh cable trays may have various widths, up to the full support capacity.



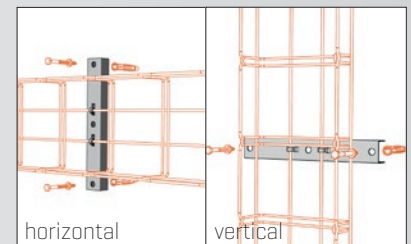
Mounting on pairs of threaded rods

This execution serves for suspended pathways anchored to the ceiling.



Attaching the wire mesh cable trays to the straight brackets

Wire mesh cable trays placed on supports are attached by bending the grips as shown in the figure.



Wall mounting

serves for wall mounted cable routes.

PZMP 100



product code

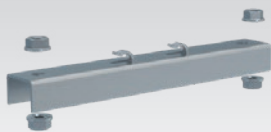


Components shown in the figure are included in the package

GZ ARK-216210
ZZ ARK-226210
A2 ARK-236210

connecting element options:
0 - electro-galvanized (GZ)
2 - geomet 500 (G5)
3 - stainless steel AISI 304 (A2)

PZMP 150



product code

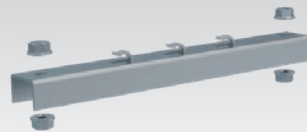


Components shown in the figure are included in the package

GZ ARK-216215
ZZ ARK-226215
A2 ARK-236215

connecting element options:
5 - electro-galvanized (GZ)
7 - geomet 500 (G5)
8 - stainless steel AISI 304 (A2)

PZMP 200



product code

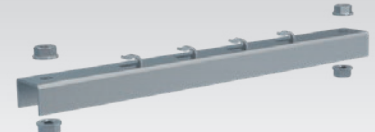


Components shown in the figure are included in the package

GZ ARK-216220
ZZ ARK-226220
A2 ARK-236220

connecting element options:
0 - electro-galvanized (GZ)
2 - geomet 500 (G5)
3 - stainless steel AISI 304 (A2)

PZMP 250



product code

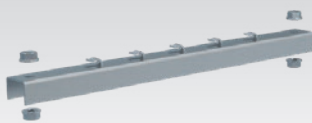


Components shown in the figure are included in the package

GZ ARK-216225
ZZ ARK-226225
A2 ARK-236225

connecting element options:
5 - electro-galvanized (GZ)
7 - geomet 500 (G5)
8 - stainless steel AISI 304 (A2)

PZMP 300



product code

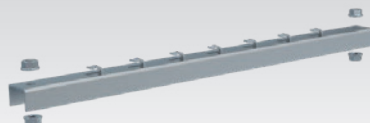


Components shown in the figure are included in the package

GZ ARK-216230
ZZ ARK-226230
A2 ARK-236230

connecting element options:
0 - electro-galvanized (GZ)
2 - geomet 500 (G5)
3 - stainless steel AISI 304 (A2)

PZMP 400



product code

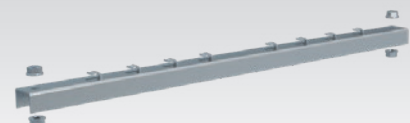


Components shown in the figure are included in the package

GZ ARK-216240
ZZ ARK-226240
A2 ARK-236240

connecting element options:
0 - electro-galvanized (GZ)
2 - geomet 500 (G5)
3 - stainless steel AISI 304 (A2)

PZMP 500



product code



Components shown in the figure are included in the package

GZ ARK-216250
ZZ ARK-226250
A2 ARK-236250

connecting element options:
0 - electro-galvanized (GZ)
2 - geomet 500 (G5)
3 - stainless steel AISI 304 (A2)

STPM (1.5 mm) rail strut with side perforations



The rail struts with side perforations of the STPM series are used for creating carrying structures for cable routes.

The anchoring to the horizontal parts of the structure is made in combination with DZM STP or DZM STPU mounting profile heads. Subsequently, NZM and NPZM brackets are installed on them if needed.

For safety reasons, the end of the strut can be sealed by the OK 2 cap.

For more details on sizes, please refer to the Technical Annex, p. 74–87



product code

SZ	ARK-227xxx
ZZ	ARK-227xxx
A2	ARK-237xxx
A4	* ARK-247xxx

	strut length [mm]	mass [kg/pc]	SZ	ZZ	A2	A4
			Pre-galvanized (17-23 µm)	Hot-dip galvanized (80-90 µm)	Standard AISI 304L	Standard AISI 316L
STPM 200 (1.5 mm)	200 mm	0.24 kg	ARK-227020	ARK-227620	ARK-237020	-
STPM 250 (1.5 mm)	250 mm	0.30 kg	ARK-227025	ARK-227625	ARK-237025	-
STPM 300 (1.5 mm)	300 mm	0.36 kg	ARK-227030	ARK-227630	ARK-237030	-
STPM 400 (1.5 mm)	400 mm	0.54 kg	ARK-227040	ARK-227640	ARK-237040	-
STPM 500 (1.5 mm)	500 mm	0.61 kg	ARK-227050	ARK-227650	ARK-237050	-
STPM 600 (1.5 mm)	600 mm	0.73 kg	ARK-227060	ARK-227660	ARK-237060	-
STPM 700 (1.5 mm)	700 mm	0.83 kg	ARK-227070	ARK-227670	ARK-237070	-
STPM 800 (1.5 mm)	800 mm	0.97 kg	ARK-227080	ARK-227680	ARK-237080	-
STPM 900 (1.5 mm)	900 mm	1.09 kg	ARK-227090	ARK-227690	ARK-237090	-
STPM 1000 (1.5 mm)	1 000 mm	1.21 kg	ARK-227100	ARK-227700	ARK-237100	-
STPM 1100 (1.5 mm)	1 100 mm	1.35 kg	ARK-227110	ARK-227710	ARK-237110	-
STPM 3000 (1.5 mm)	3 000 mm	3.50 kg	ARK-227300	ARK-227900	ARK-237300	* ARK-247300

STPM (2.0 mm) rail strut with side perforations



For more details on sizes, please refer to the Technical Annex, p. 74–87

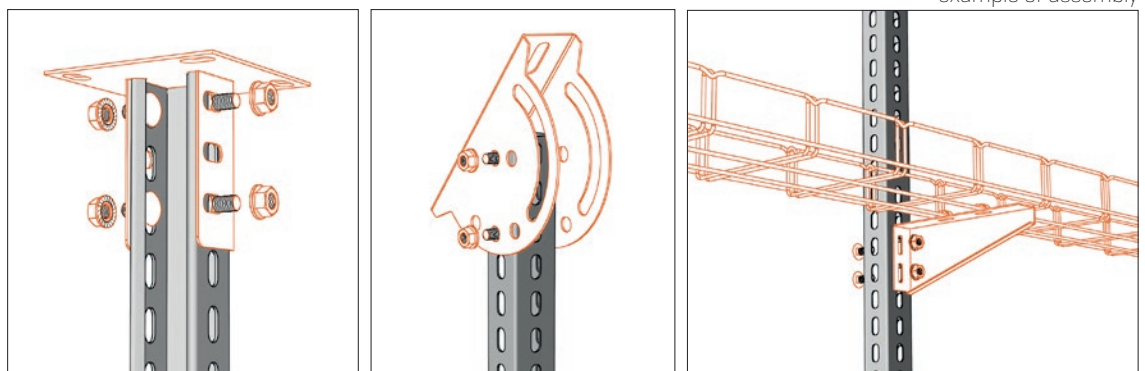


product code

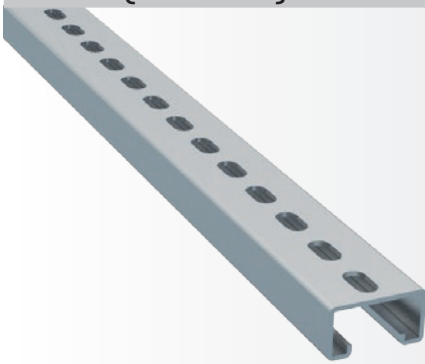
SZ	ARK-227xxx
ZZ	ARK-227xxx
A2	ARK-237xxx
A4	* ARK-247xxx

	strut length [mm]	mass [kg/pc]	SZ	ZZ	A2	A4
			Pre-galvanized (17-23 µm)	Hot-dip galvanized (80-90 µm)	Standard AISI 304L	Standard AISI 316L
STPM 1200 (2.0 mm)	1 200 mm	1.96 kg	ARK-227120	ARK-227720	ARK-237120	-
STPM 1300 (2.0 mm)	1 300 mm	2.05 kg	ARK-227130	ARK-227730	ARK-237130	-
STPM 1400 (2.0 mm)	1 400 mm	2.14 kg	ARK-227140	ARK-227740	ARK-237140	-
STPM 1500 (2.0 mm)	1 500 mm	2.31 kg	ARK-227150	ARK-227750	ARK-237150	-
STPM 1600 (2.0 mm)	1 600 mm	2.43 kg	ARK-227160	ARK-227760	ARK-237160	-
STPM 1700 (2.0 mm)	1 700 mm	2.65 kg	ARK-227170	ARK-227770	ARK-237170	-
STPM 1800 (2.0 mm)	1 800 mm	2.78 kg	ARK-227180	ARK-227780	ARK-237180	-
STPM 1900 (2.0 mm)	1 900 mm	2.90 kg	ARK-227190	ARK-227790	ARK-237190	-
STPM 2000 (2.0 mm)	2 000 mm	3.10 kg	ARK-227200	ARK-227800	ARK-237200	-
STPM 2100 (2.0 mm)	2 100 mm	3.21 kg	ARK-227210	ARK-227810	ARK-237210	-
STPM 2200 (2.0 mm)	2 200 mm	3.38 kg	ARK-227220	ARK-227820	ARK-237220	-
STPM 2300 (2.0 mm)	2 300 mm	3.52 kg	ARK-227230	ARK-227830	ARK-237230	-
STPM 2400 (2.0 mm)	2 400 mm	3.66 kg	ARK-227240	ARK-227840	ARK-237240	-
STPM 2500 (2.0 mm)	2 500 mm	3.81 kg	ARK-227250	ARK-227850	ARK-237250	-
STPM 2600 (2.0 mm)	2 600 mm	3.98 kg	ARK-227260	ARK-227860	ARK-237260	-
STPM 2700 (2.0 mm)	2 700 mm	4.09 kg	ARK-227270	ARK-227870	ARK-237270	-
STPM 2800 (2.0 mm)	2 800 mm	4.22 kg	ARK-227280	ARK-227880	ARK-237280	-
STPM 2900 (2.0 mm)	2 900 mm	4.39 kg	ARK-227290	ARK-227890	ARK-237290	-
STPM 3000 (2.0 mm)	3 000 mm	4.50 kg	ARK-227302	ARK-227902	ARK-237302	* ARK-247302
STPM 6000 (2.0 mm)	6 000 mm	9.00 kg	ARK-227602	-	-	-

example of assembly



STNM [1.5 mm] rail strut



For more details on sizes, please refer to the Technical Annex, p. 74-87



product code

SZ	ARK-228xxx
ZZ	ARK-228xxx
A2	ARK-238xxx
A4	* ARK-248xxx

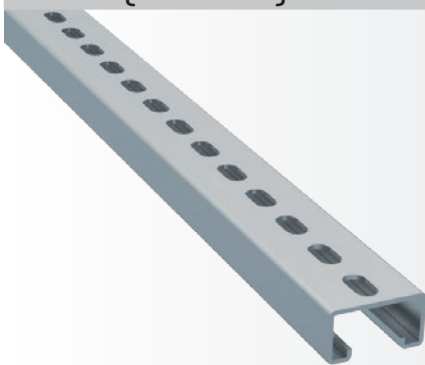
The rail struts of the STNM series are used for wall mounting of cable routes in places where the anchoring forces should be distributed in poor quality masonry.

Using rectangular nuts MSM/M6-M8 and the PVM positioning clamp, it is possible to add another cable track at any time, a so-called adjustable installation.

For safety reasons, the end of the strut can be sealed by the OK 3 cap.

strut length [mm]	mass [kg/pc]	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">SZ Pre-galvanized [17-23 µm]</div> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">ZZ hot-dip-galvanized [80-90 µm]</div> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">A2 stainless AISI 304L [AISI 304L]</div> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">A4 stainless AISI 316L [AISI 316L]</div> </div>				
		SZ	ZZ	A2	A4	
STNM 200 [1.5 mm]	200 mm	0.24 kg	ARK-228020	ARK-228620	ARK-238020	-
STNM 250 [1.5 mm]	250 mm	0.30 kg	ARK-228025	ARK-228625	ARK-238025	-
STNM 300 [1.5 mm]	300 mm	0.36 kg	ARK-228030	ARK-228630	ARK-238030	-
STNM 400 [1.5 mm]	400 mm	0.54 kg	ARK-228040	ARK-228640	ARK-238040	-
STNM 500 [1.5 mm]	500 mm	0.61 kg	ARK-228050	ARK-228650	ARK-238050	-
STNM 600 [1.5 mm]	600 mm	0.73 kg	ARK-228060	ARK-228660	ARK-238060	-
STNM 700 [1.5 mm]	700 mm	0.83 kg	ARK-228070	ARK-228670	ARK-238070	-
STNM 800 [1.5 mm]	800 mm	0.97 kg	ARK-228080	ARK-228680	ARK-238080	-
STNM 900 [1.5 mm]	900 mm	1.09 kg	ARK-228090	ARK-228690	ARK-238090	-
STNM 1000 [1.5 mm]	1 000 mm	1.21 kg	ARK-228100	ARK-228700	ARK-238100	-
STNM 1100 [1.5 mm]	1 100 mm	1.35 kg	ARK-228110	ARK-228710	ARK-238110	-
STNM 3000 [1.5 mm]	3 000 mm	3.50 kg	ARK-228300	ARK-228900	ARK-238300	ARK-248300

STNM [2.0 mm] rail strut



For more details on sizes, please refer to the Technical Annex, p. 74-87



product code

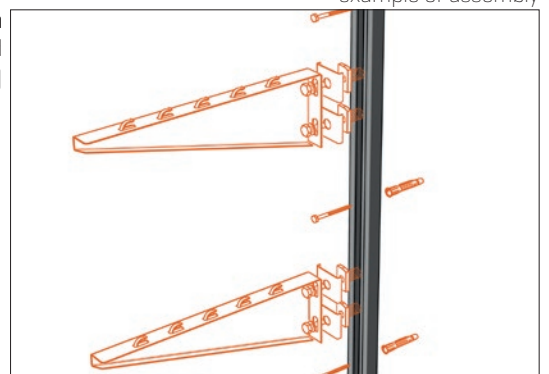
SZ	ARK-228xxx
ZZ	ARK-228xxx
A2	ARK-238xxx

strut length [mm]	mass [kg/pc]	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">SZ Pre-galvanized [17-23 µm]</div> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">ZZ hot-dip-galvanized [80-90 µm]</div> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">A2 stainless AISI 304L [AISI 304L]</div> </div>			
		SZ	ZZ	A2	
STNM 1200 [2.0 mm]	1 200 mm	2.04 kg	ARK-228120	ARK-228720	**ARK-238120
STNM 1300 [2.0 mm]	1 300 mm	2.14 kg	ARK-228130	ARK-228730	**ARK-238130
STNM 1400 [2.0 mm]	1 400 mm	2.24 kg	ARK-228140	ARK-228740	**ARK-238140
STNM 1500 [2.0 mm]	1 500 mm	2.41 kg	ARK-228150	ARK-228750	**ARK-238150
STNM 1600 [2.0 mm]	1 600 mm	2.54 kg	ARK-228160	ARK-228760	**ARK-238160
STNM 1700 [2.0 mm]	1 700 mm	2.77 kg	ARK-228170	ARK-228770	**ARK-238170
STNM 1800 [2.0 mm]	1 800 mm	2.90 kg	ARK-228180	ARK-228780	**ARK-238180
STNM 1900 [2.0 mm]	1 900 mm	3.03 kg	ARK-228190	ARK-228790	**ARK-238190
STNM 2000 [2.0 mm]	2 000 mm	3.24 kg	ARK-228200	ARK-228800	**ARK-238200
STNM 2100 [2.0 mm]	2 100 mm	3.36 kg	ARK-228210	ARK-228810	-
STNM 2200 [2.0 mm]	2 200 mm	3.53 kg	ARK-228220	ARK-228820	-
STNM 2300 [2.0 mm]	2 300 mm	3.67 kg	ARK-228230	ARK-228830	-
STNM 2400 [2.0 mm]	2 400 mm	3.82 kg	ARK-228240	ARK-228840	-
STNM 2500 [2.0 mm]	2 500 mm	3.98 kg	ARK-228250	ARK-228850	-
STNM 2600 [2.0 mm]	2 600 mm	4.16 kg	ARK-228260	ARK-228860	-
STNM 2700 [2.0 mm]	2 700 mm	4.27 kg	ARK-228270	ARK-228870	-
STNM 2800 [2.0 mm]	2 800 mm	4.39 kg	ARK-228280	ARK-228880	-
STNM 2900 [2.0 mm]	2 900 mm	4.51 kg	ARK-228290	ARK-228890	-
STNM 3000 [2.0 mm]	3 000 mm	4.70 kg	ARK-228302	ARK-228902	-
STNM 6000 [2.0 mm]	6 000 mm	9.40 kg	ARK-228602	-	-

[**] AISI 304L stainless steel STNM struts are made of 1.5 mm thick sheet

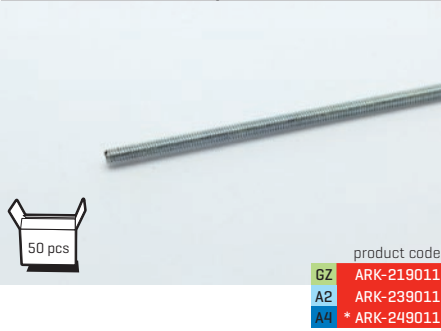
Mounting type - moving installation
[additional tracks can be placed in between the existing ones later on]

example of assembly

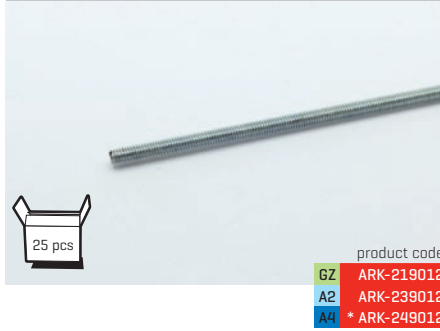


[*] A4 parts are made-to-order.
Price and availability information is provided upon request.

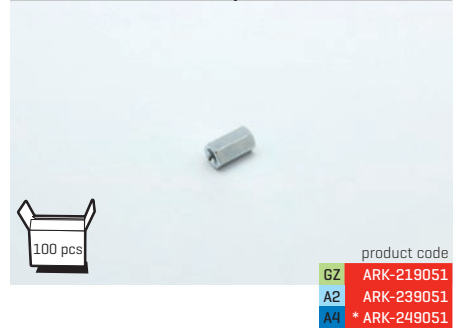
Threaded rod M6/1 m



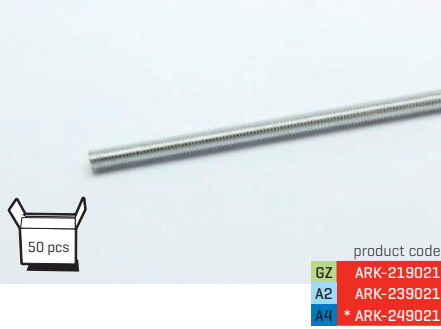
Threaded rod M6/2 m



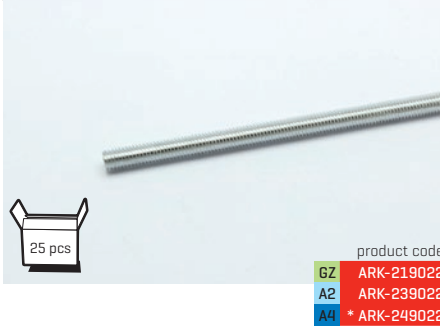
Threaded rod coupler M6x16



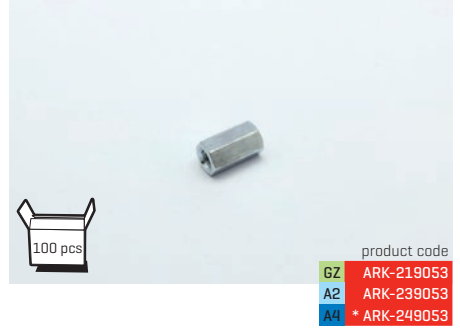
Threaded rod M8/1 m



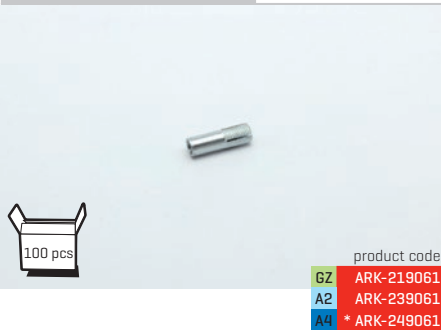
Threaded rod M8/2 m



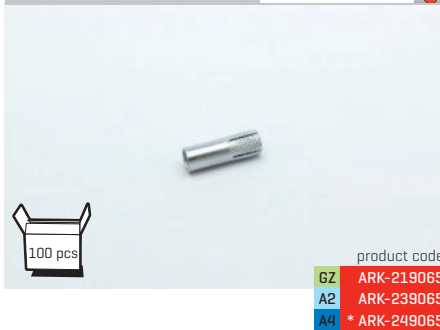
Threaded rod coupler M8x23



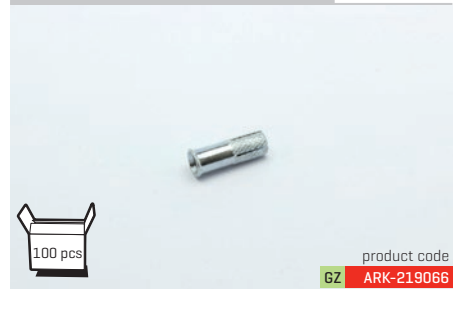
Metal dowel M6x25



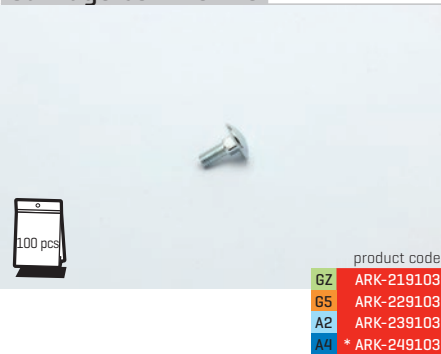
Metal dowel M8x30



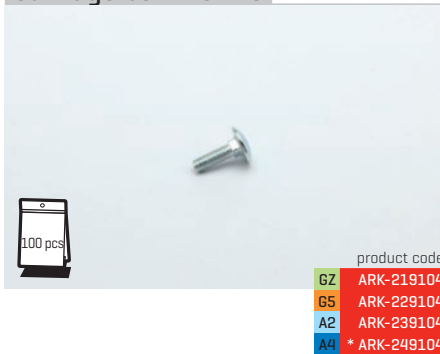
Metal collar dowel M8x30



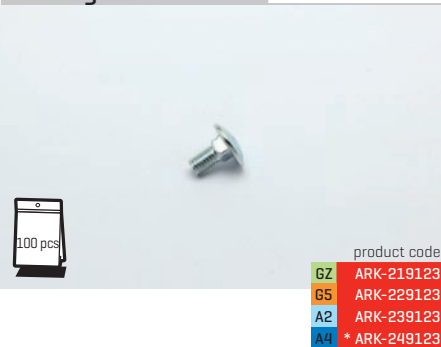
Carriage bolt M6x16



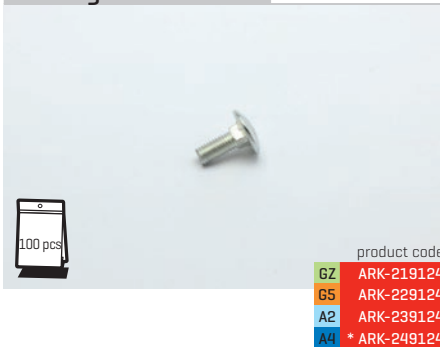
Carriage bolt M6x20



Carriage bolt M8x16



Carriage bolt M8x20



Hexagonal bolt M6×16



product code
GZ ARK-219163
A2 ARK-239163
A4 * ARK-249163

Hexagonal bolt M6×20



product code
GZ ARK-219164
A2 ARK-239164
A4 * ARK-249164

Hexagonal bolt M6×40



product code
GZ ARK-219167
A2 ARK-239167
A4 * ARK-249167

Hexagonal bolt M8×16



product code
GZ ARK-219183
A2 ARK-239183
A4 * ARK-249183

Hexagonal bolt M8×20



product code
GZ ARK-219184
A2 ARK-239184
A4 * ARK-249184

Hexagonal bolt M8×25



product code
GZ ARK-219185
A2 ARK-239185
A4 * ARK-249185

Hexagonal bolt M8×30



product code
GZ ARK-219186
A2 ARK-239186
A4 * ARK-249186

Hexagonal bolt M8×40



product code
GZ ARK-219187
A2 ARK-239187
A4 * ARK-249187

Hexagonal bolt M8×50



product code
GZ ARK-219188
A2 ARK-239188
A4 * ARK-249188

Hexagonal bolt M8×100

(for DZM 5 holder)



product code
GZ ARK-219198
A2 ARK-239198
A4 * ARK-249198

Hexagonal bolt M8×120

(for DZM 5 holder)



product code
GZ ARK-219202
A2 ARK-239202
A4 * ARK-249202

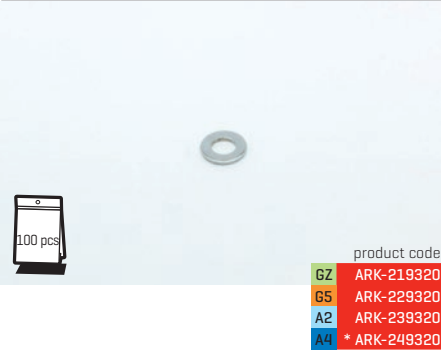
Hexagonal bolt M8×140

(for DZM 5 holder)

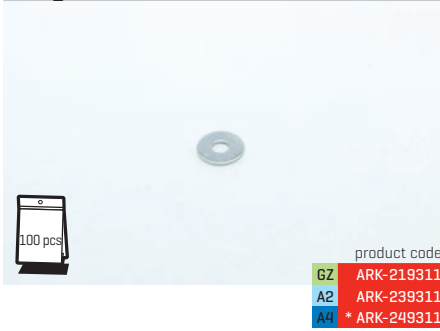


product code
GZ ARK-219206
A2 ARK-239206
A4 * ARK-249206

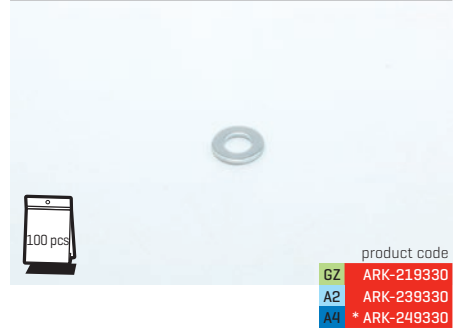
Washer M8



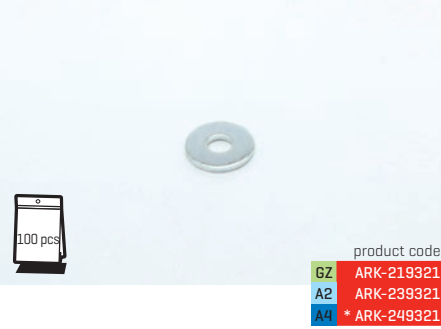
Large area washer M6



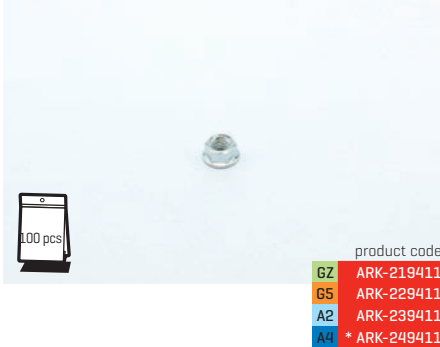
Washer M10



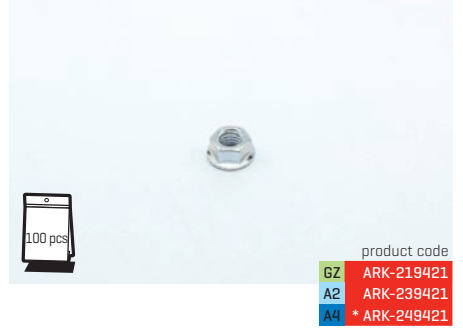
Large area washer M8



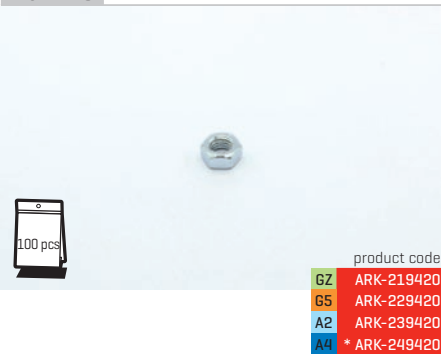
Collar nut M6



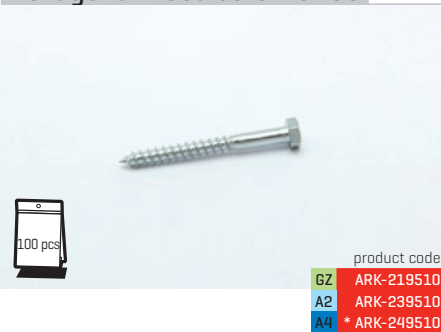
Collar nut M8



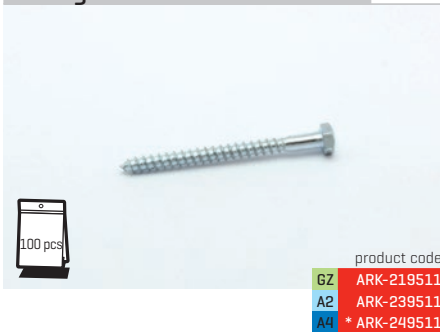
Nut M8



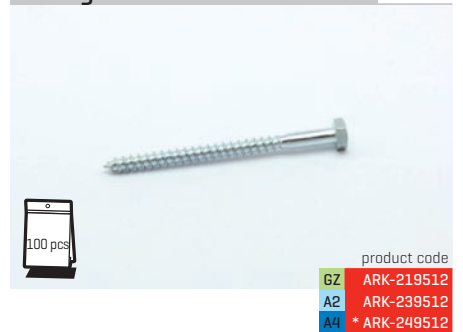
Hexagonal wood screw 6×60



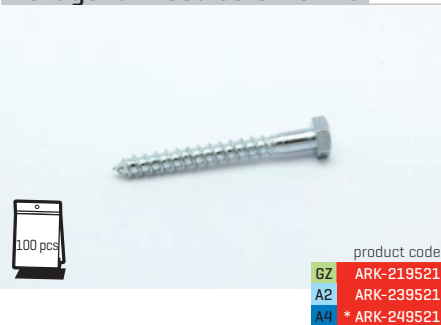
Hexagonal wood screw 6×70



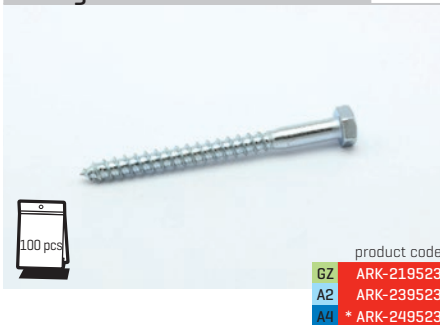
Hexagonal wood screw 6×80



Hexagonal wood screw 8×70



Hexagonal wood screw 8×90



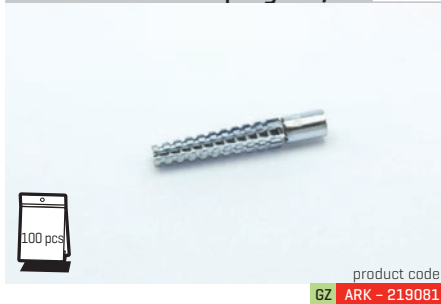
Wall dowel 10x60 NYLON UH-L



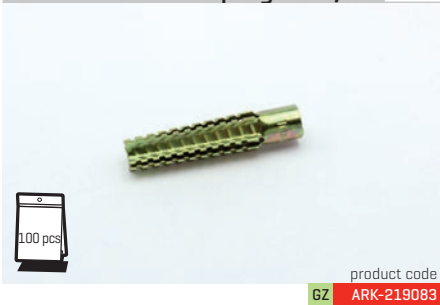
Wall dowel 12x72 NYLON UH-L



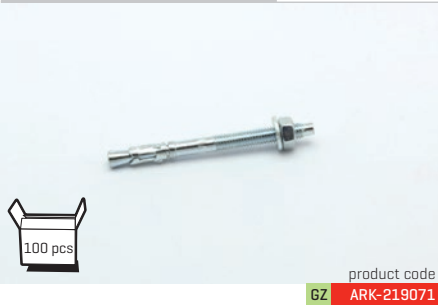
Sheet metal wall plug M8/60



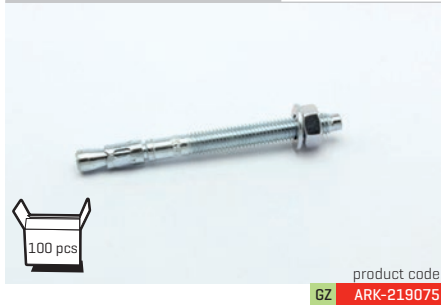
Sheet metal wall plug M10/60



Girder anchor M6x65



Girder anchor M8x85



Metal wall plug HM S M6/12x52



Metal wall plug HM SS M8/13x55



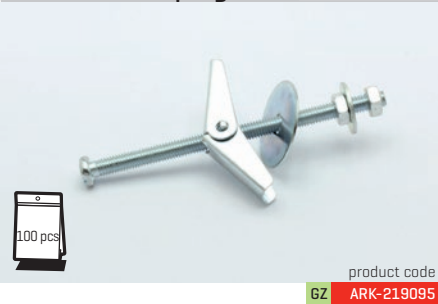
Metal wall plug HM S M6/12x65



Metal wall plug HM SS M8/13x68



Foldable wall plug KD 6



Foldable wall plug KD 8



Chemical anchoring CH-VSF-300C

summer 300ml



Chemical anchoring CH-VSF-300C/W

winter 300ml



Metal strainer 12x1 000 mm

for chemical anchoring M6/M8



[*] A4 parts are made-to-order. Price and availability information is provided upon request.

Wire 3 mm [FeZn]

product code
GZ ARK-219910

Cable clamp 3 mm

product code
GZ ARK-219920

Positioning tool UKH

for metal dowel M8x30



product code
GZ ARK-219960

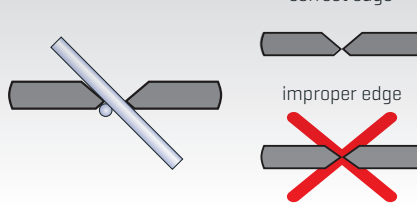
Bolt cutter MERKUR

side edge



product code
ARK-219952

Use of MERKUR scissors
correct placing of scissors
on sheared wire

**Threaded rod cutter**

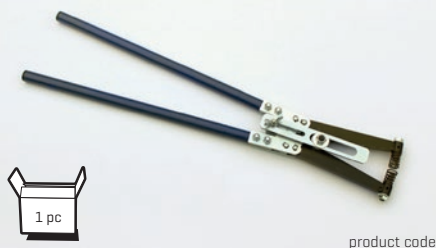
for M8 and M10 threaded rods



product code
ARK-219958

Trapezoidal scissors

medium - for max. 1.2 mm sheet thickness



product code
ARK-219954

Trapezoidal scissors

large - for max. 1.5 mm sheet thickness



product code
ARK-219955

Replacement blade kit

for trapezoidal scissors



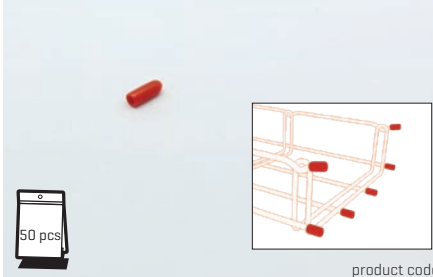
product code
for medium scissors (ARK-219954) ARK-219954-1
for large scissors (ARK-219955) ARK-219956
Price available upon request.

Pliers HMZ 1

for metal wall plugs HM



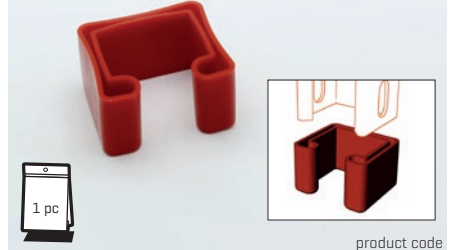
product code
ARK-219959

OK 1 protective cap for wires

product code
plast ARK-219971

OK 2 protective cap for rail struts

for STPM rail struts



product code
plast ARK-219972

OK 3 protective cap for rail struts

for STNM rail strut



product code
plast ARK-219973

OK 4 protective cap

for PZM, PZMP straight brackets



product code
plast ARK-219974

zinc spray - zinc 98% (400 ml)

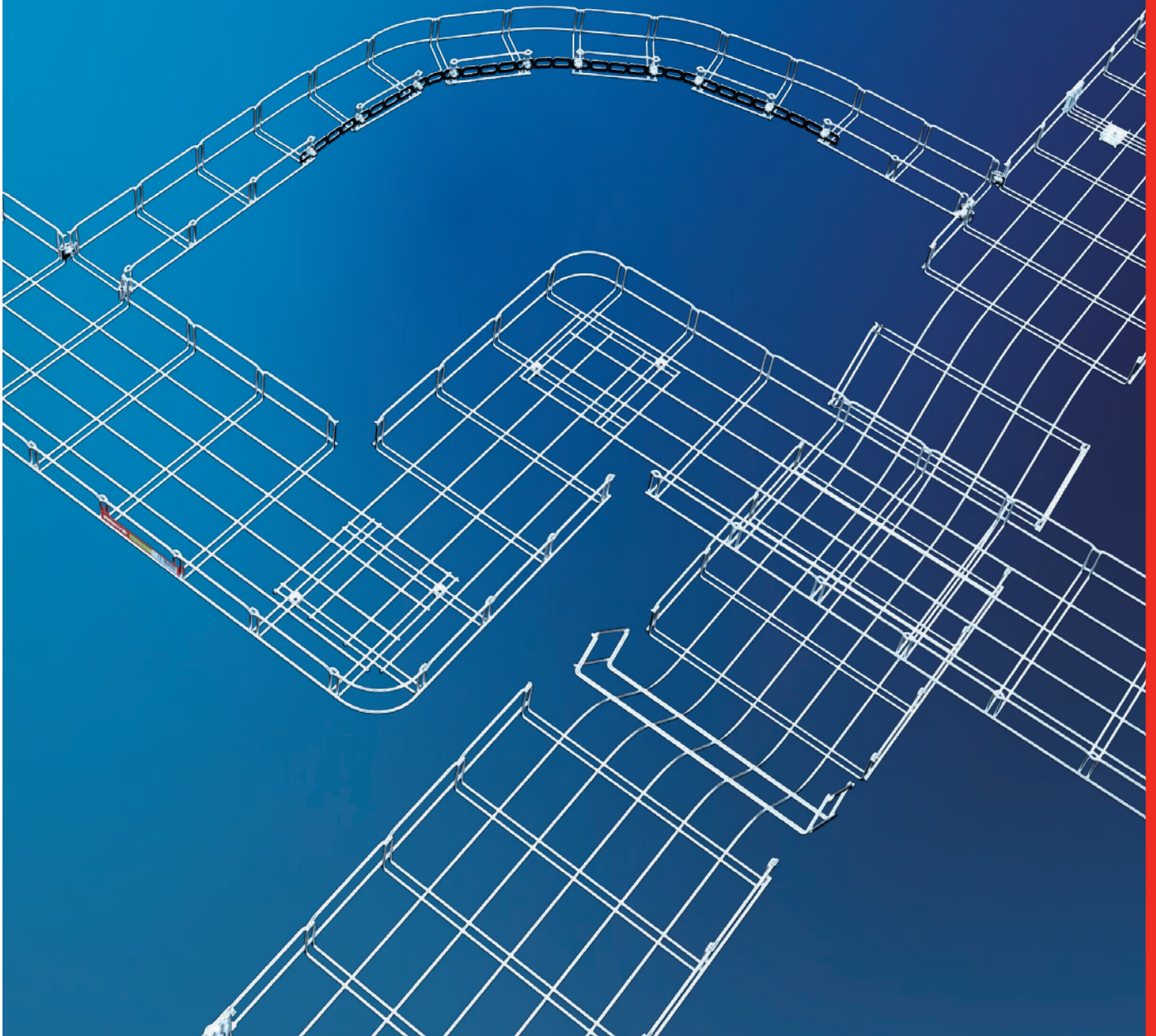
product code
ARK-219981

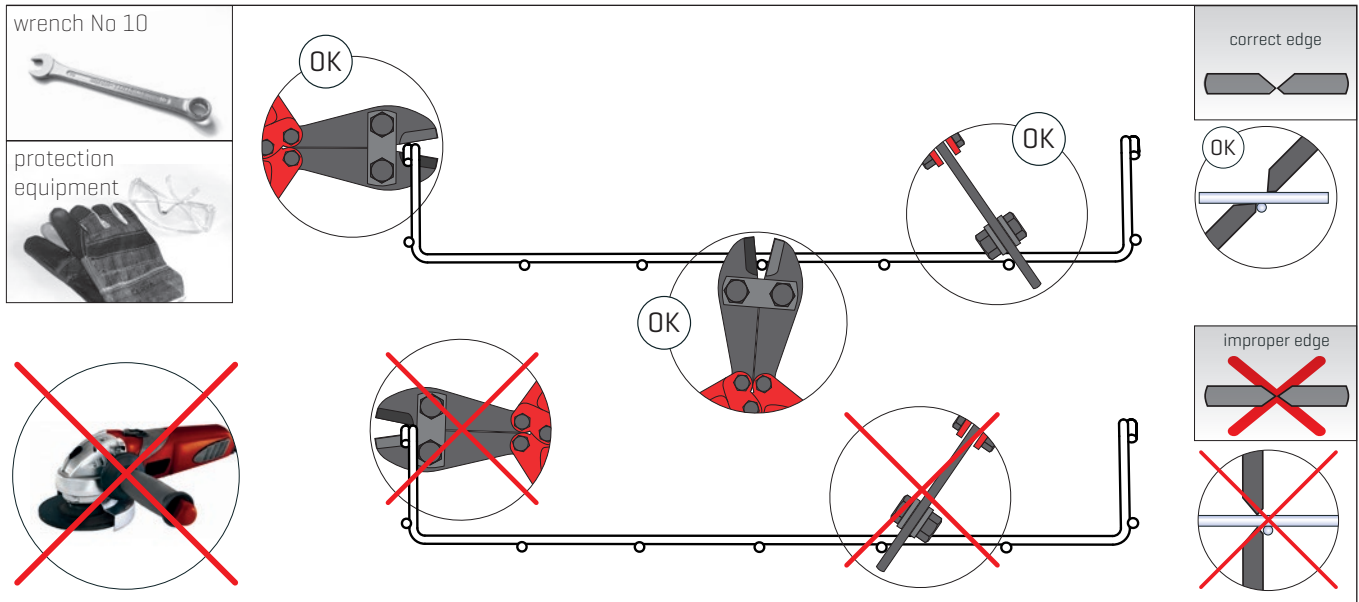
WIRE MESH CABLE TRAY INSTALLATION

SIMPLE GUIDE FOR CREATING
SHAPED ELEMENTS OF CABLE ROUTES

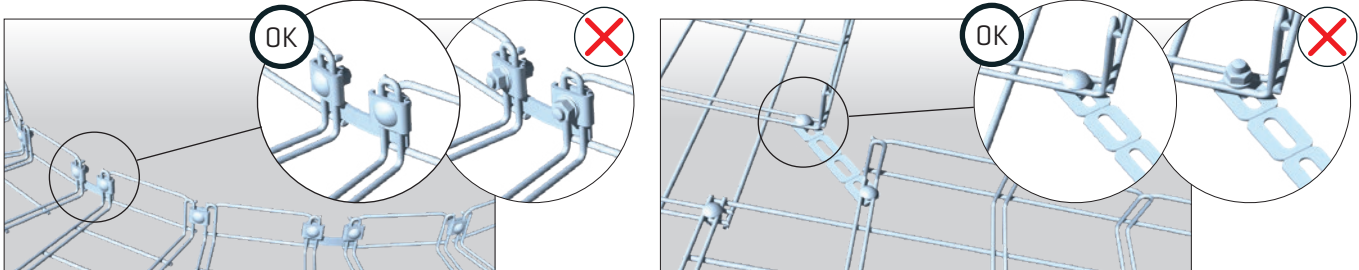
GENERAL INFORMATION AND INSTRUCTIONS
BASIC TRAY SHAPING SCHEMES
CABLE ROUTE CROSSING
CABLE ROUTE CONNECTING
SPATIAL SHAPING

P. 62
P. 63 - 70
P. 71
P. 72
P. 73

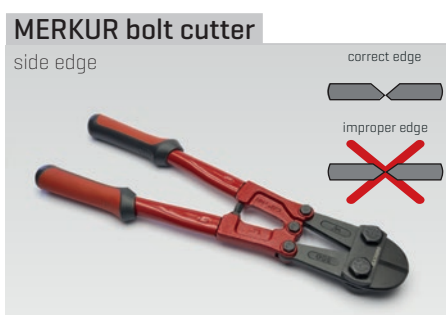
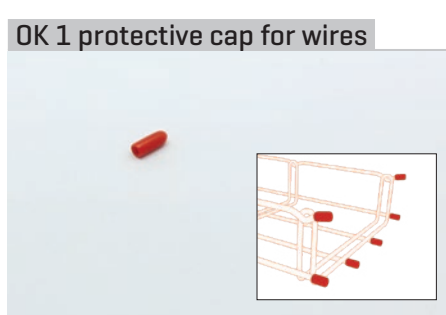
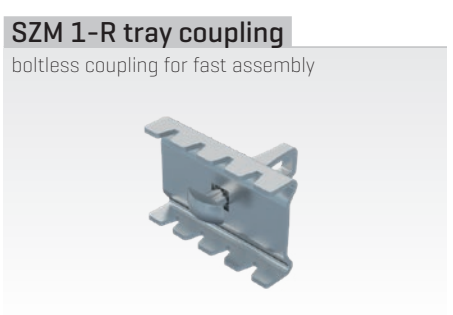
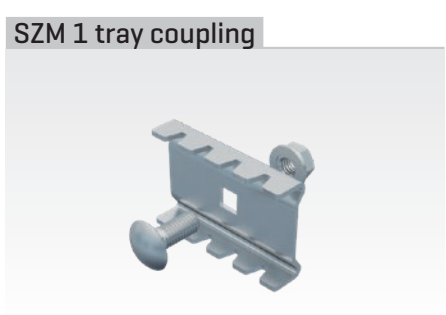
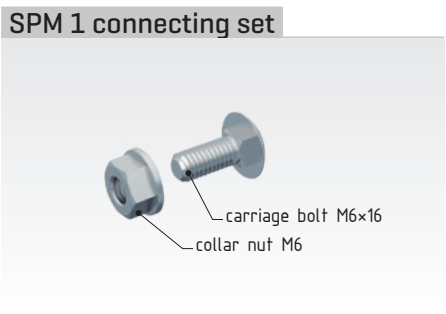
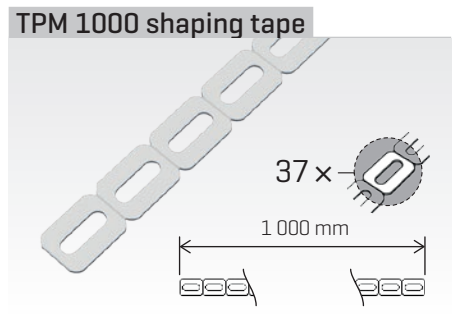
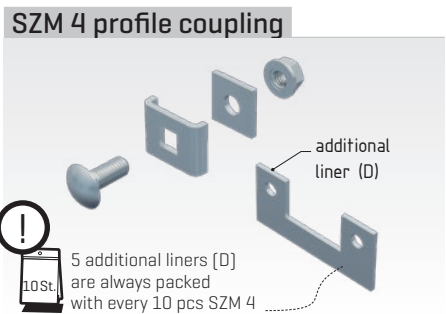




The declared loading capacity can be achieved solely if the appropriate anchoring elements are put in place before and after a shaped section.

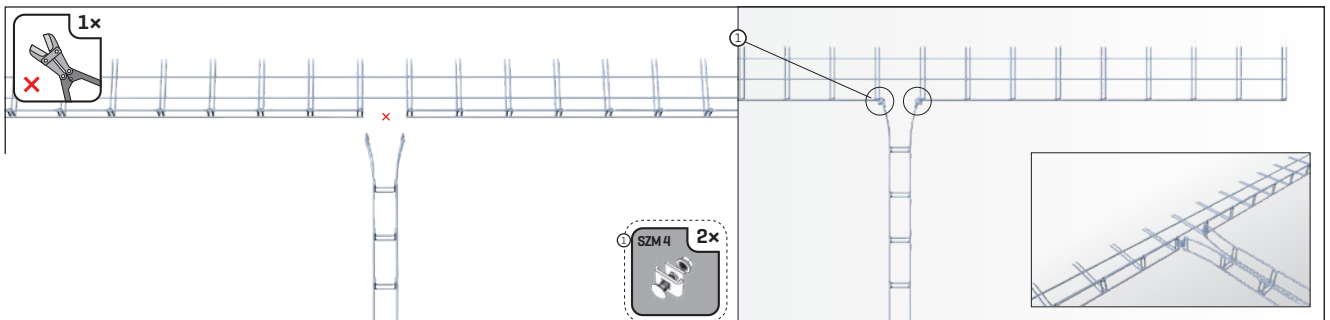
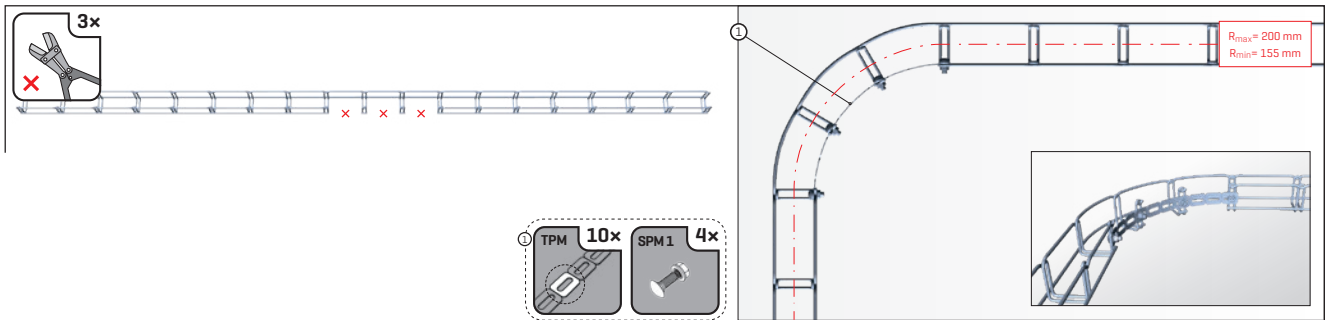
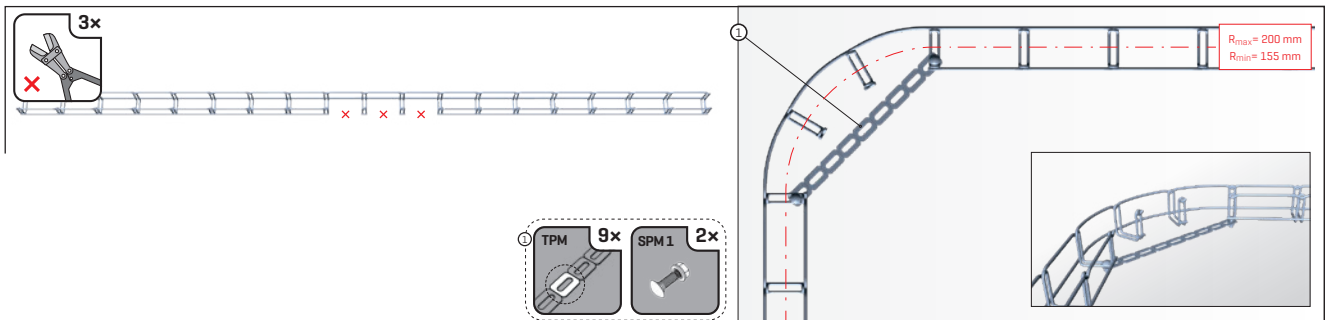
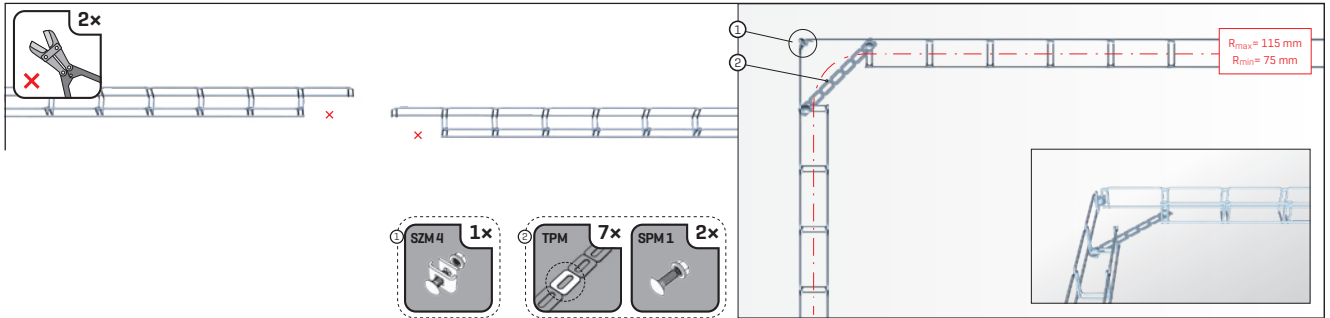
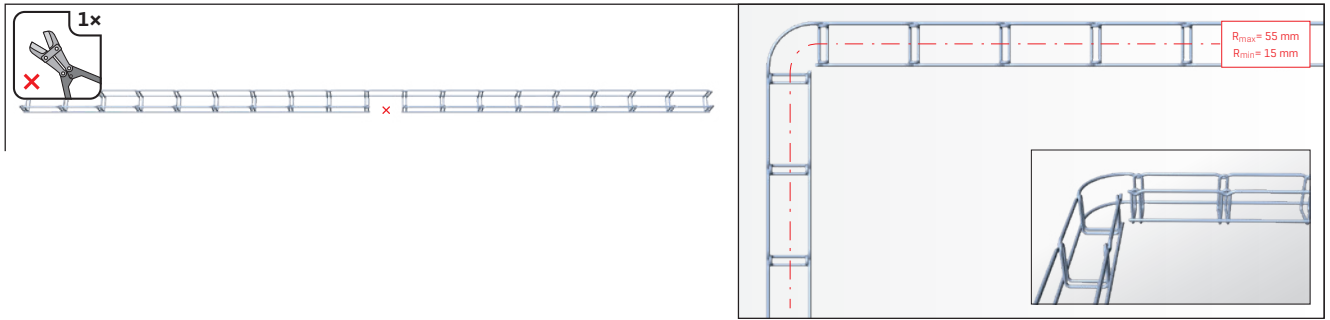


PARTS AND ACCESSORIES

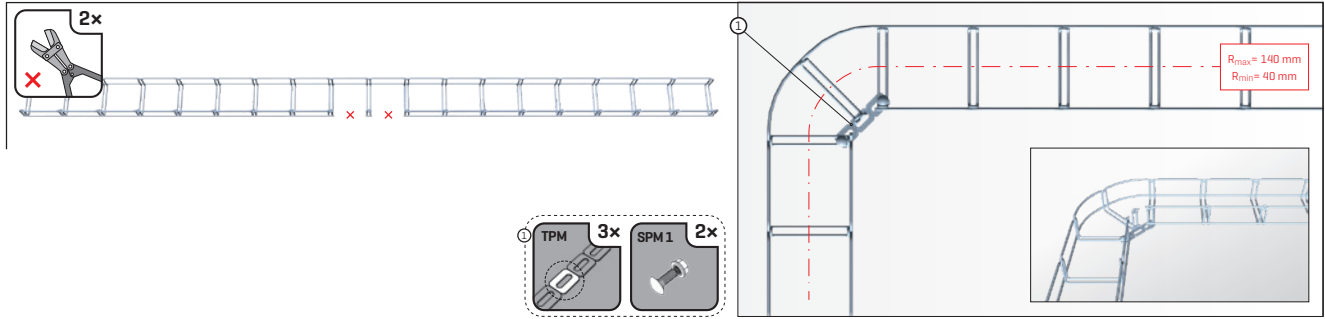



BASIC TRAY SHAPING SCHEMES

50 mm 



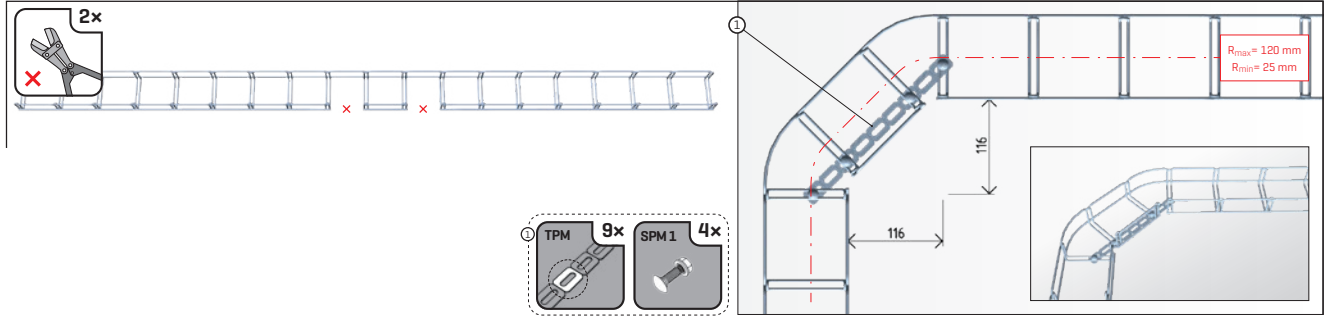
100 mm 




2x  **2x**

① TPM **3x** SPM1 **2x**

$R_{max} = 140\text{ mm}$
 $R_{min} = 40\text{ mm}$



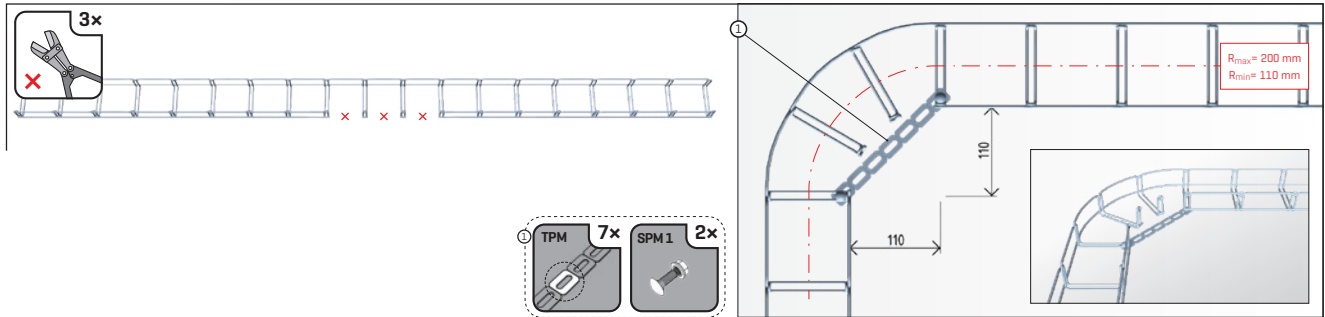
2x  **2x**


① TPM **9x** SPM1 **4x**

$R_{max} = 120\text{ mm}$
 $R_{min} = 25\text{ mm}$

116

116



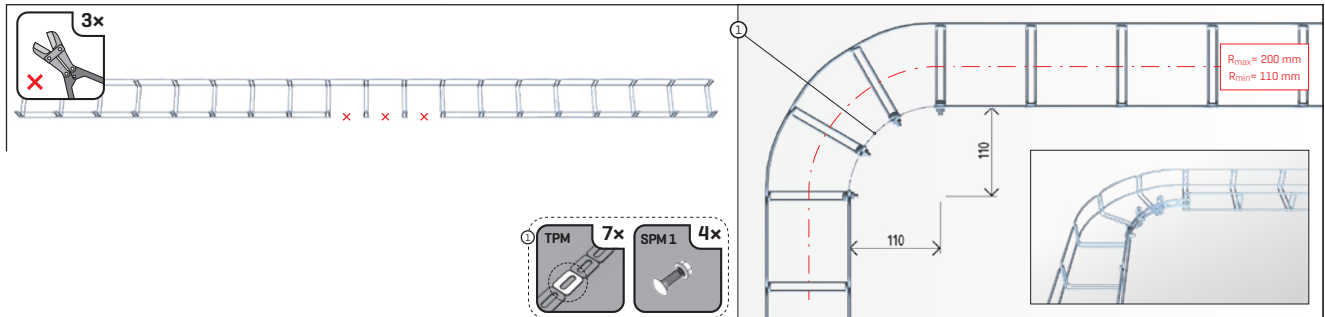
3x  **3x**


① TPM **7x** SPM1 **2x**

$R_{max} = 200\text{ mm}$
 $R_{min} = 110\text{ mm}$

110

110



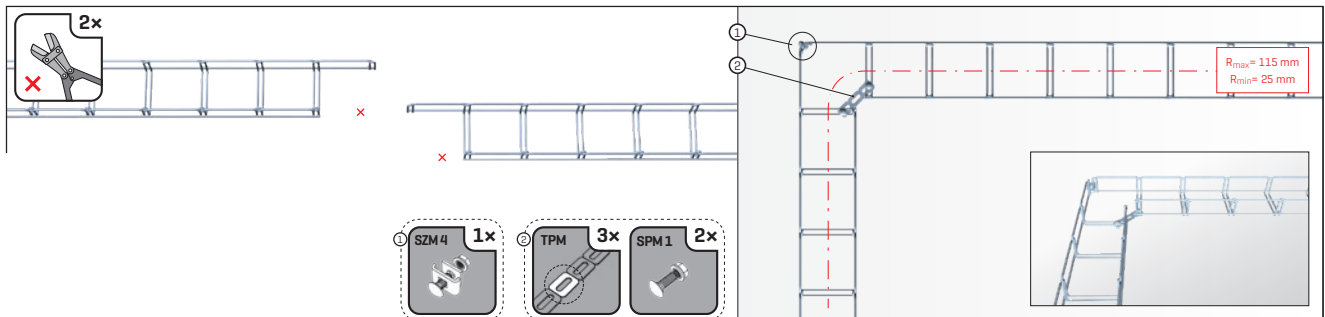
3x  **3x**


① TPM **7x** SPM1 **4x**

$R_{max} = 200\text{ mm}$
 $R_{min} = 110\text{ mm}$

110

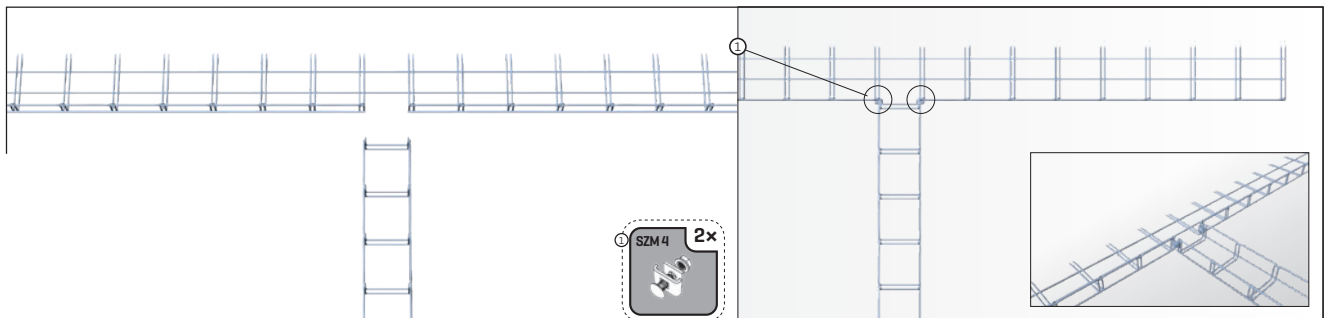
110



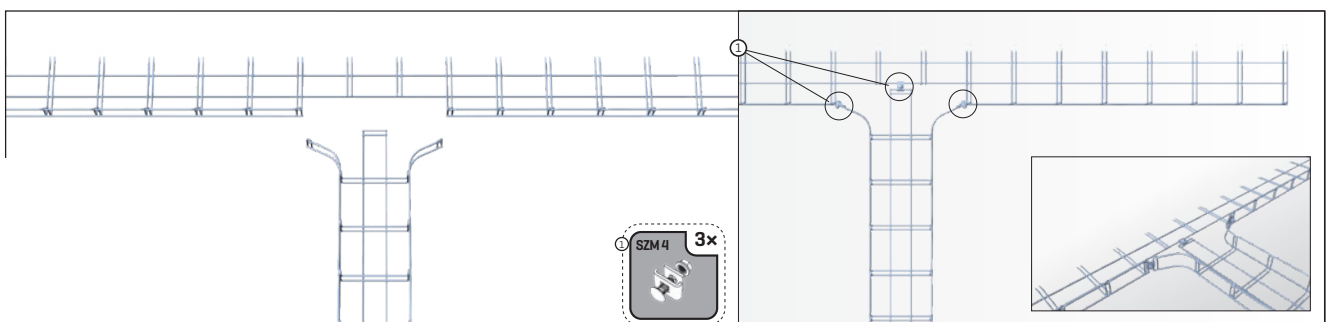
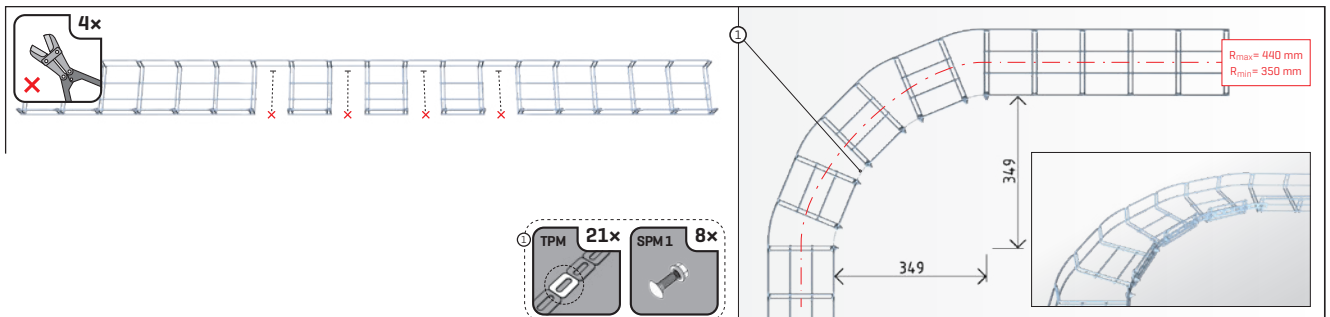
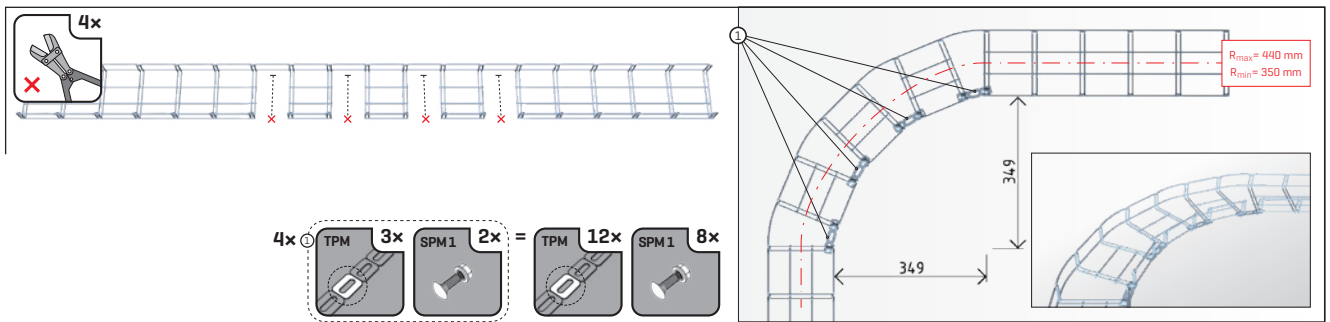
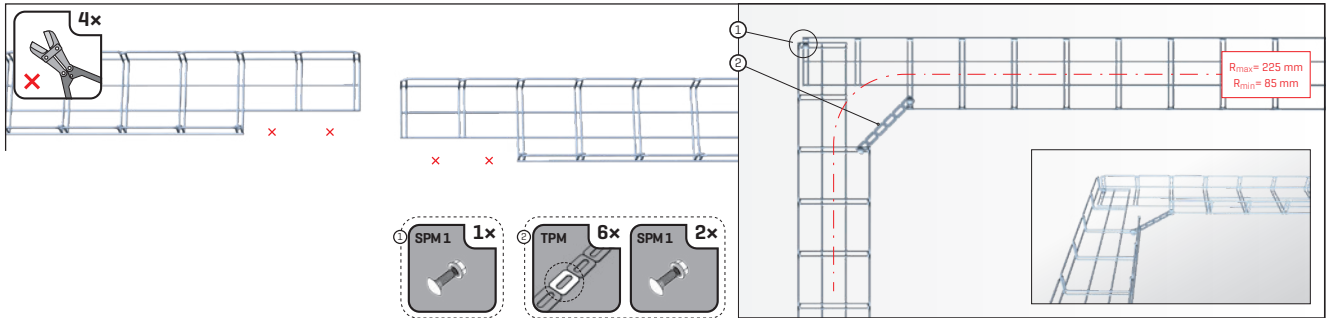
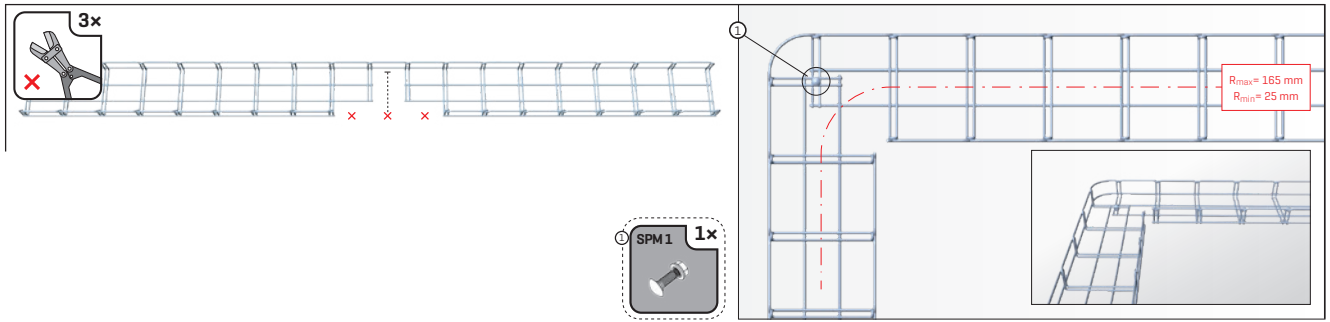
2x  **2x**

① SZM4 **1x** ② TPM **3x** SPM1 **2x**

$R_{max} = 115\text{ mm}$
 $R_{min} = 25\text{ mm}$

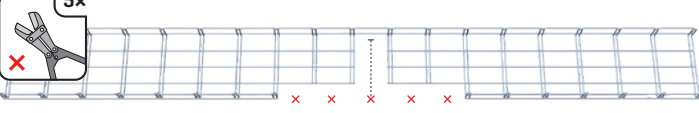


① SZM4 **2x**

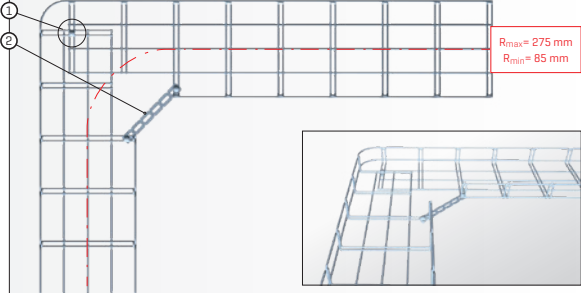


200 mm 

5x

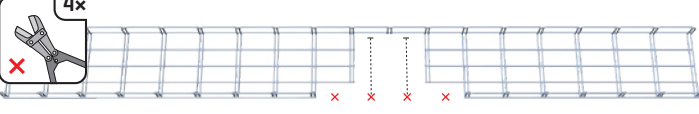


① SPM 1 **1x** ② TPM **6x** SPM 1 **2x**

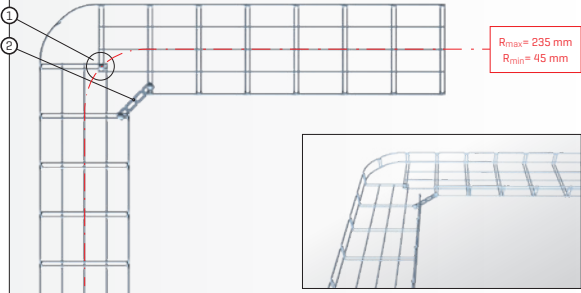


$R_{max} = 275 \text{ mm}$
 $R_{min} = 85 \text{ mm}$

4x

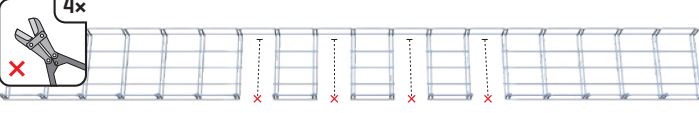


① SPM 1 **1x** ② TPM **4x** SPM 1 **2x**

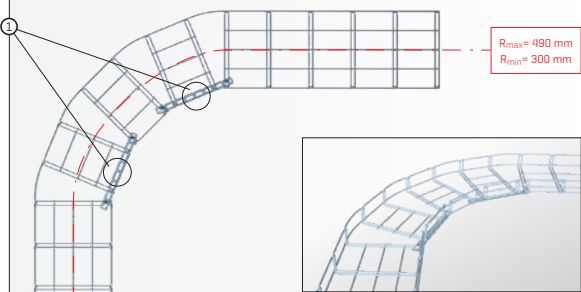


$R_{max} = 235 \text{ mm}$
 $R_{min} = 45 \text{ mm}$

4x

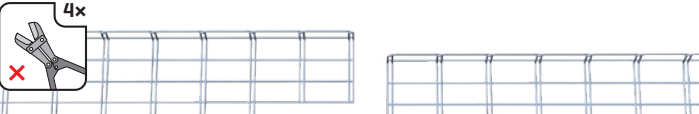


2x ① TPM **8x** SPM 1 **2x** = TPM **16x** SPM 1 **4x**

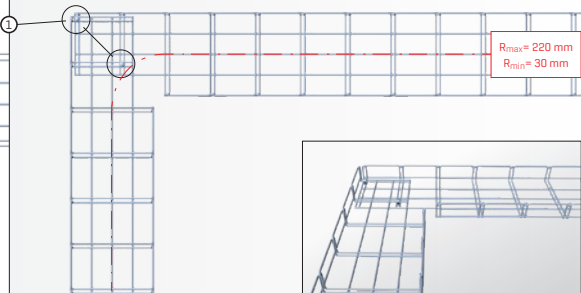


$R_{max} = 490 \text{ mm}$
 $R_{min} = 300 \text{ mm}$

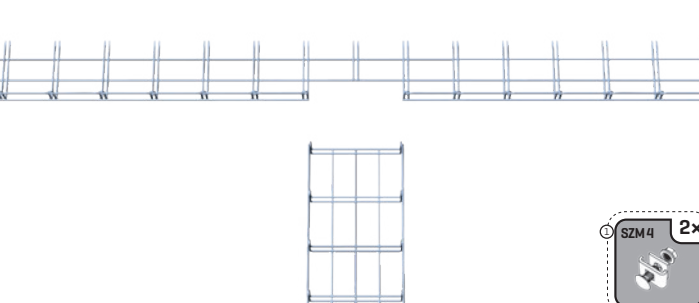
4x



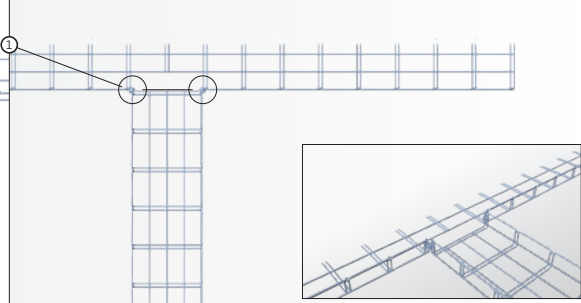
① SPM 1 **2x**

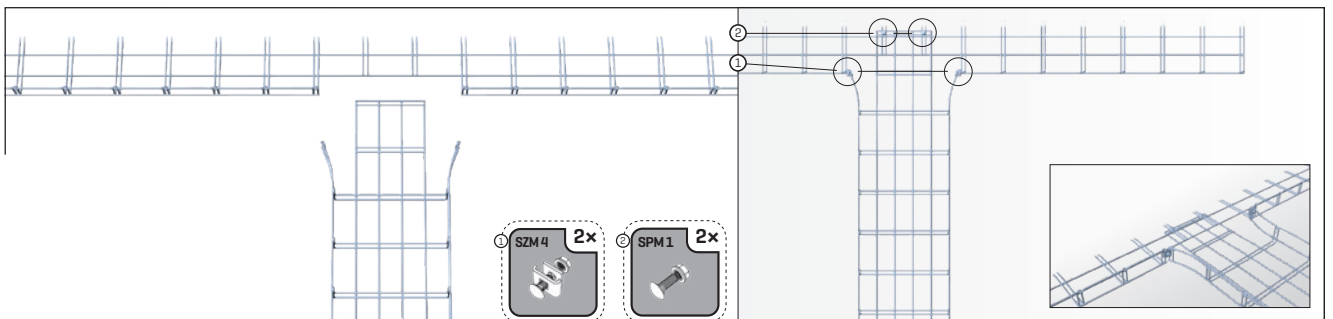
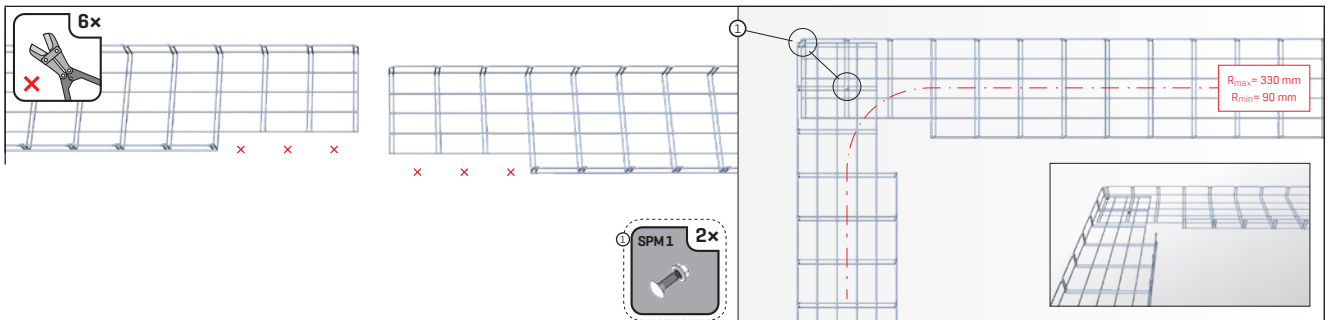
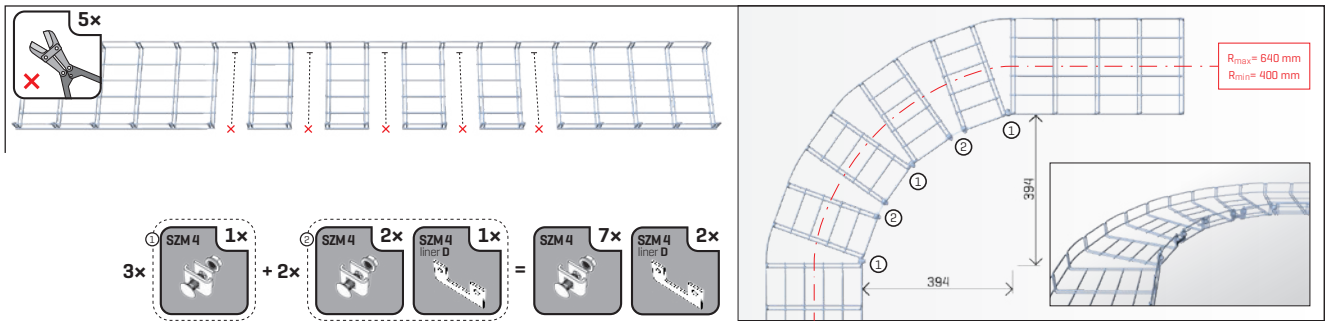
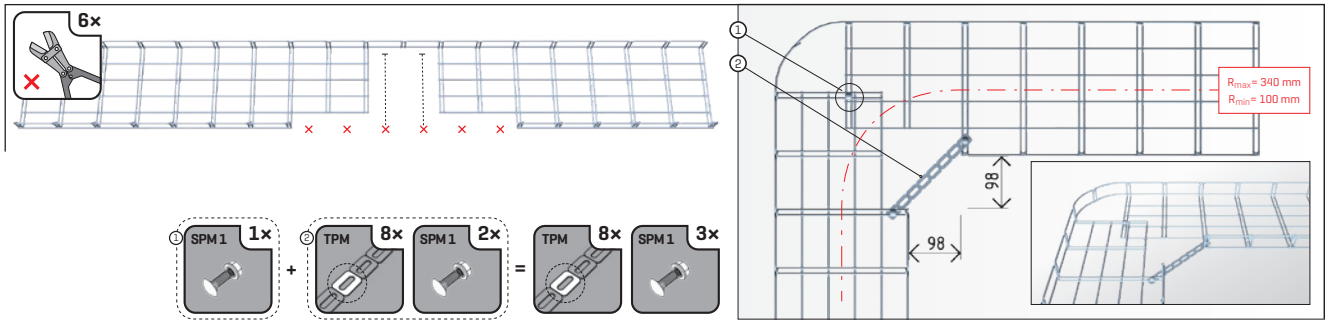
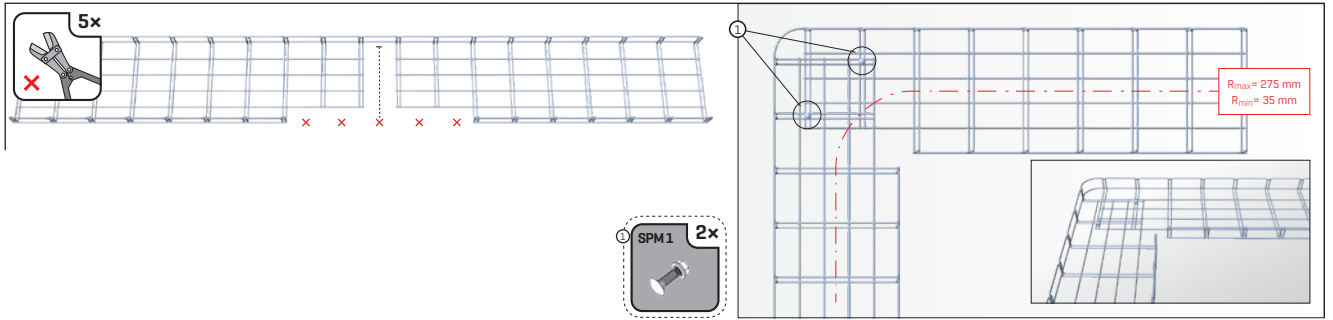


$R_{max} = 220 \text{ mm}$
 $R_{min} = 30 \text{ mm}$

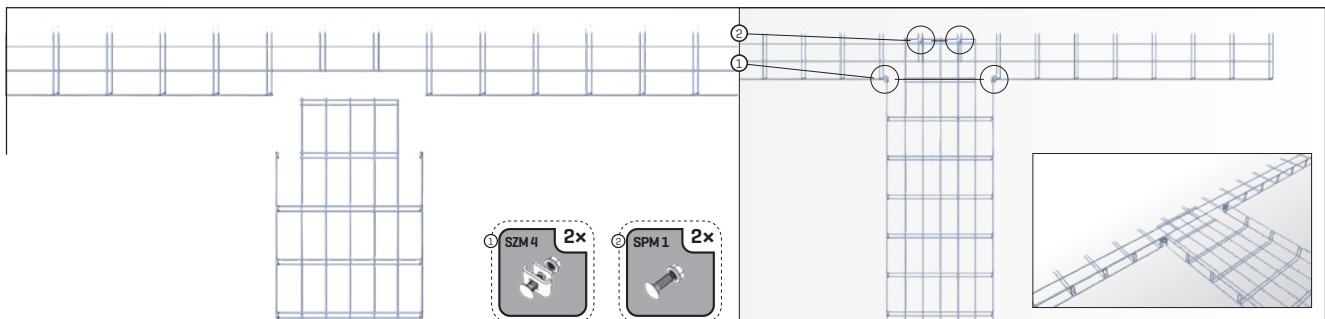
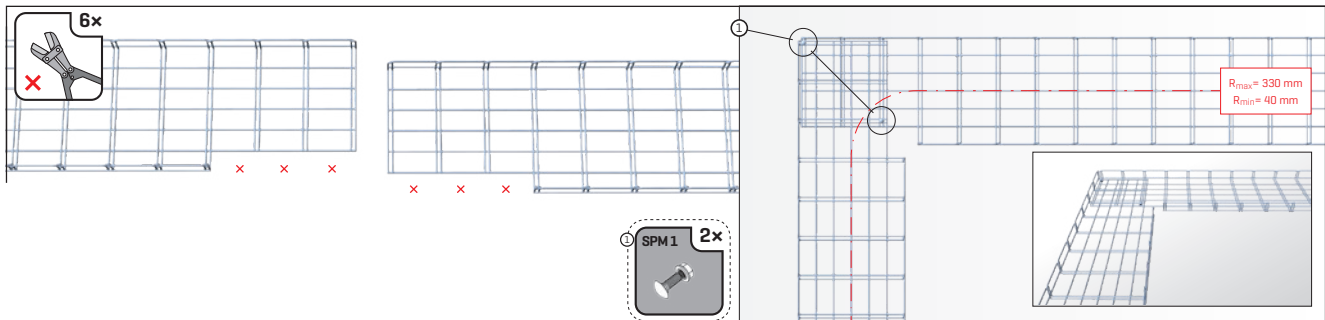
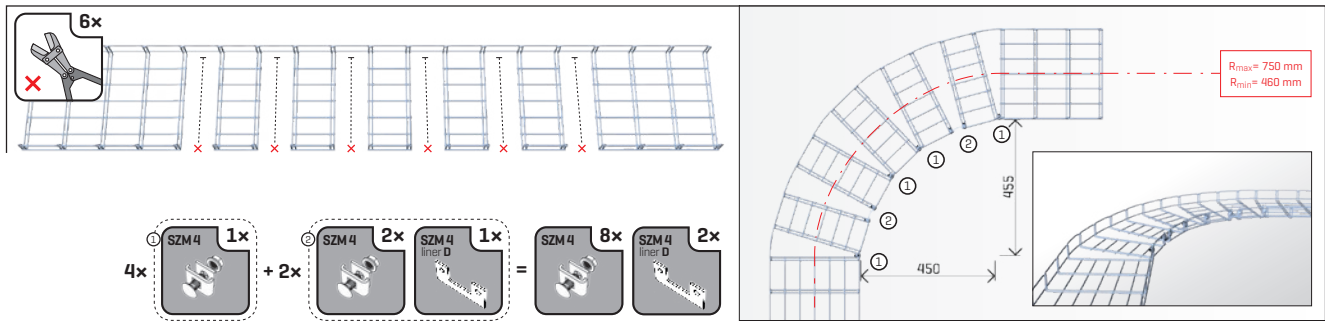
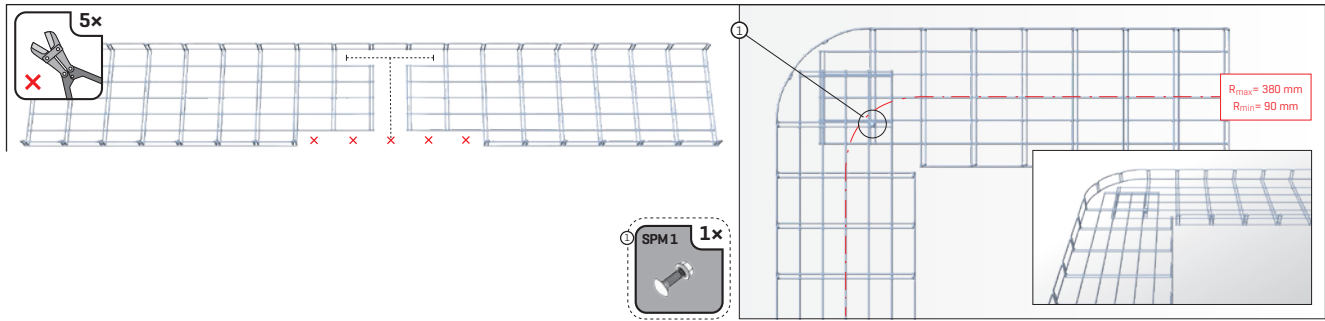
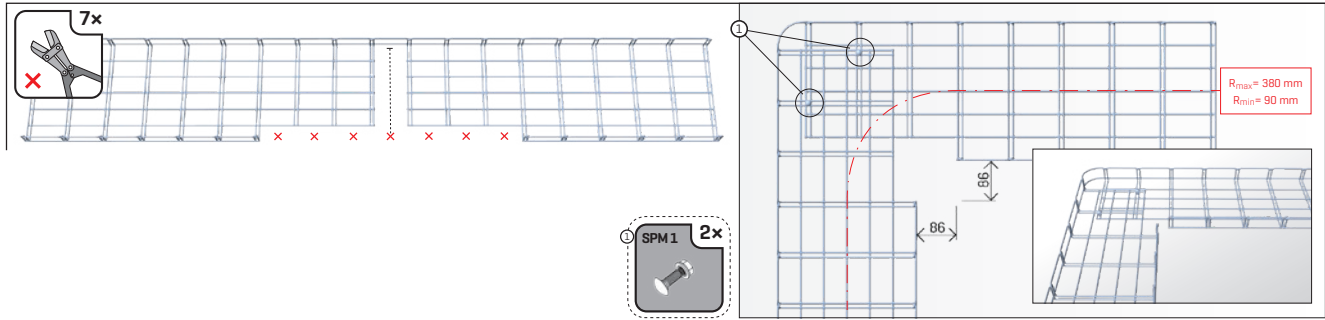



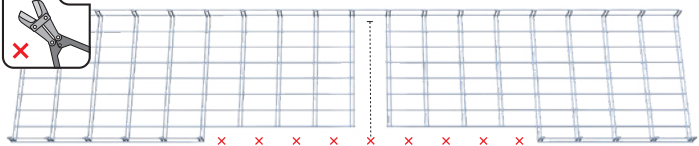
① SZM 4 **2x**




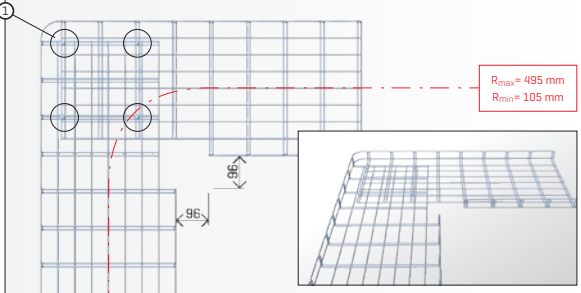



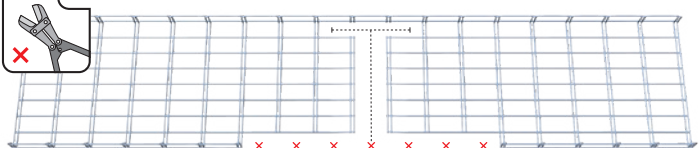
300 mm 




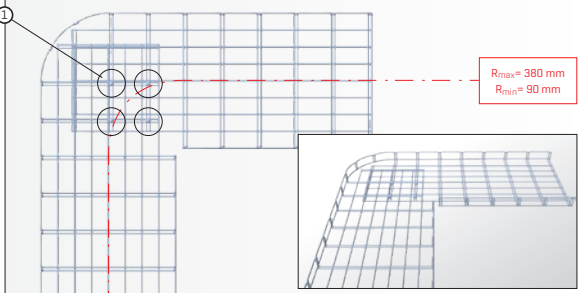
9x  


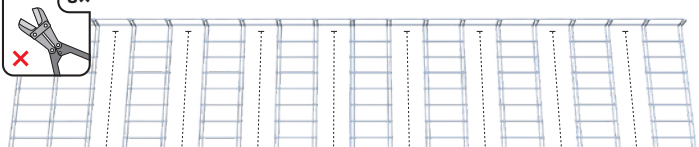
SPM1 4x 

1  $R_{max} = 495\text{ mm}$
 $R_{min} = 105\text{ mm}$

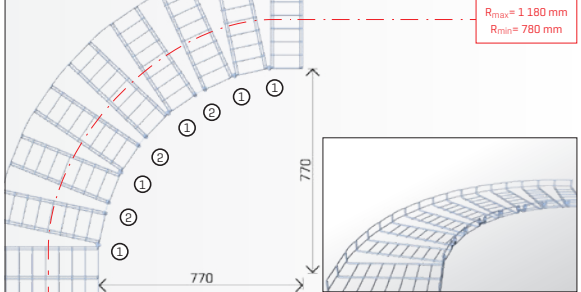
7x  


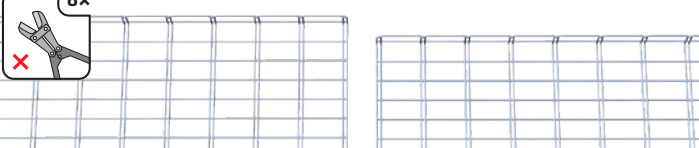
SPM1 4x 


1  $R_{max} = 380\text{ mm}$
 $R_{min} = 90\text{ mm}$

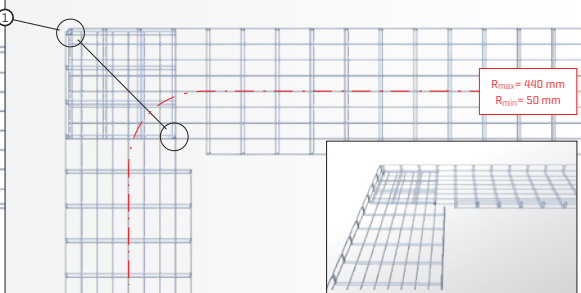
8x  

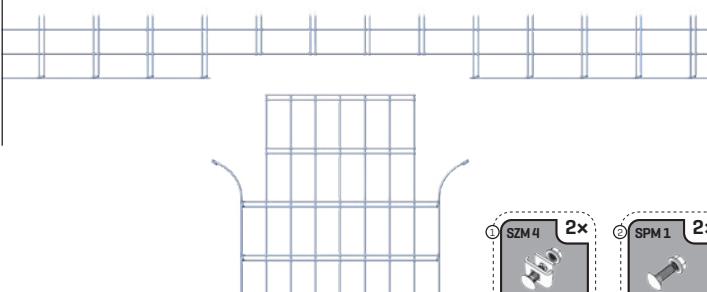
5x **SPM4 1x** **+ 3x** **SPM4 2x** **SPM4 liner D 1x** = **SPM4 11x** **SPM4 liner D 3x**



1  $R_{max} = 1180\text{ mm}$
 $R_{min} = 780\text{ mm}$

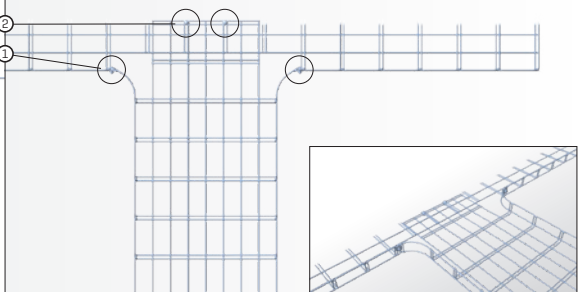
8x  

SPM1 2x 

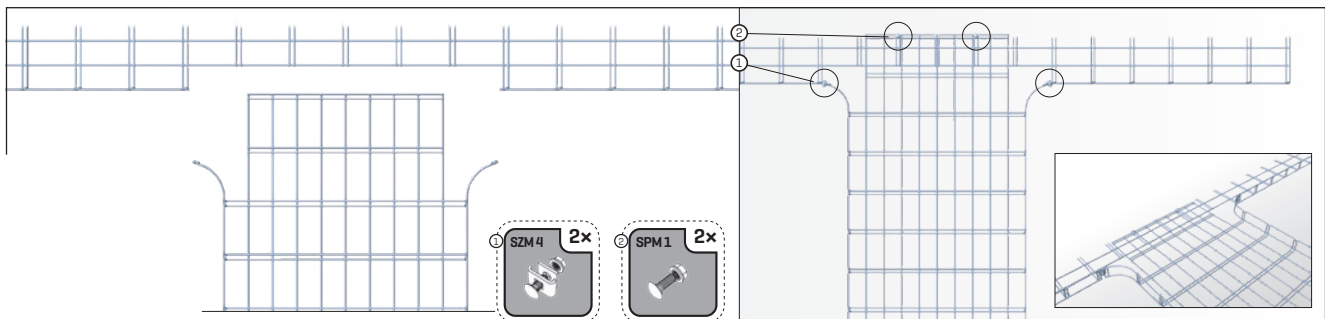
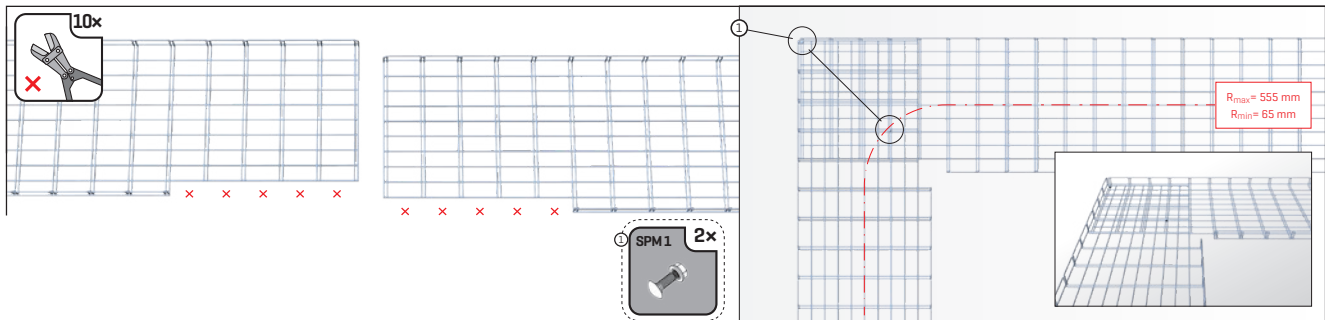
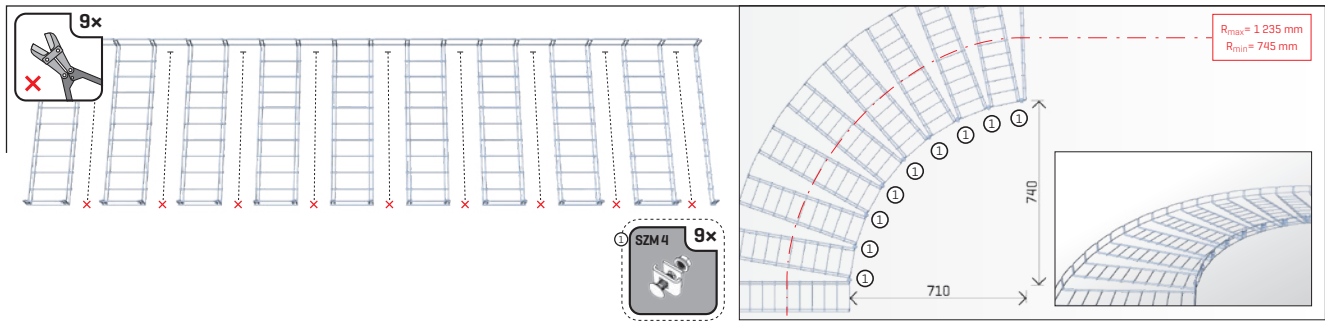
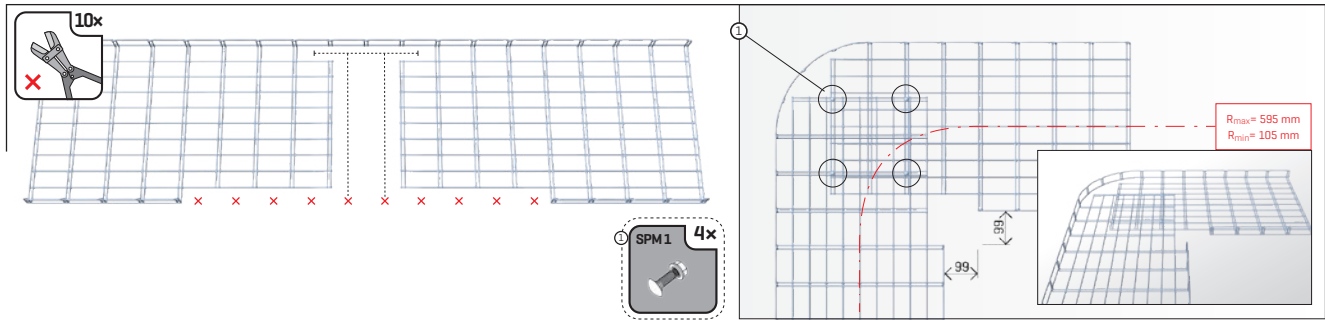
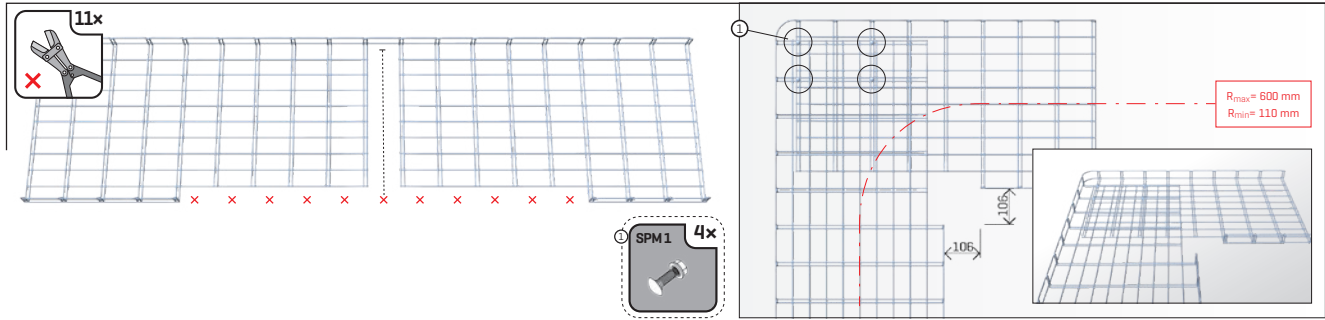
1  $R_{max} = 440\text{ mm}$
 $R_{min} = 50\text{ mm}$

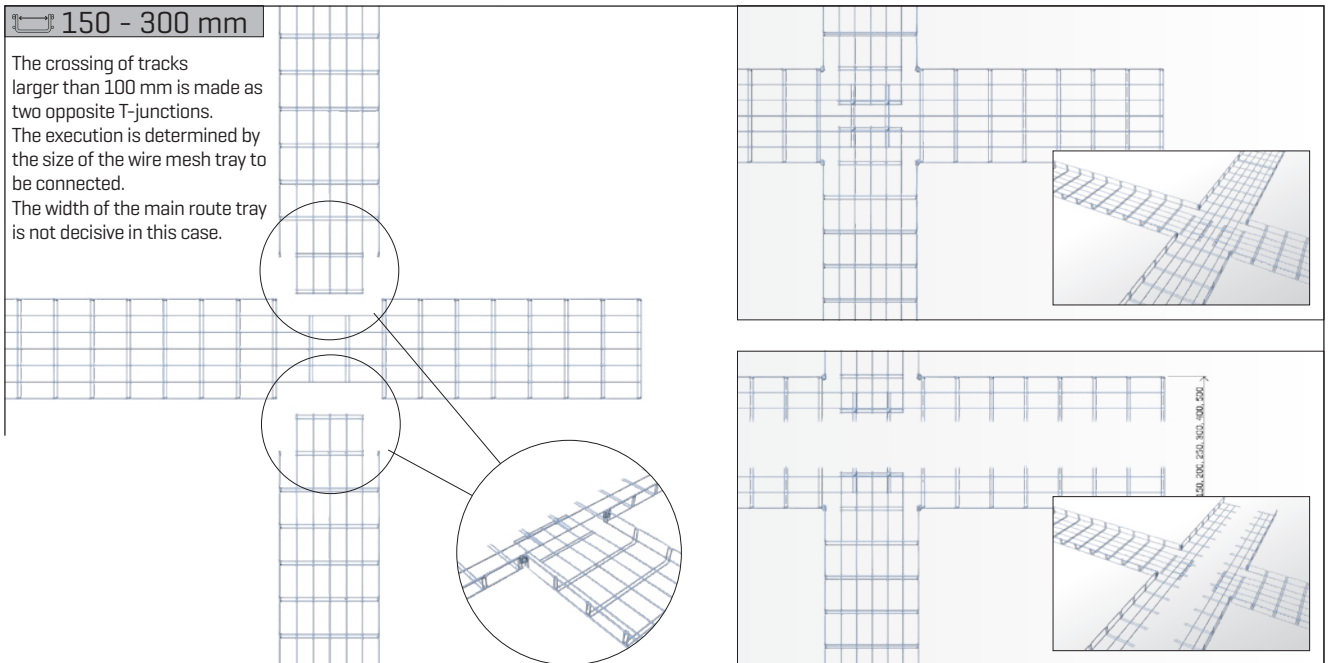
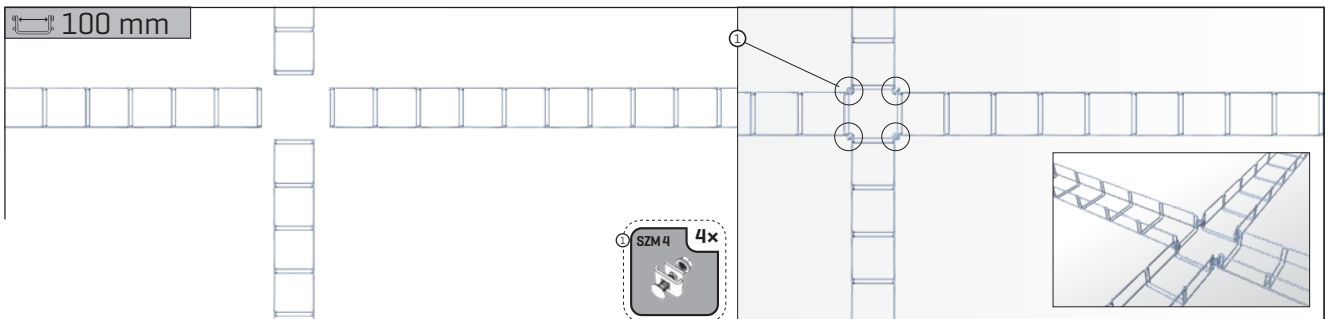
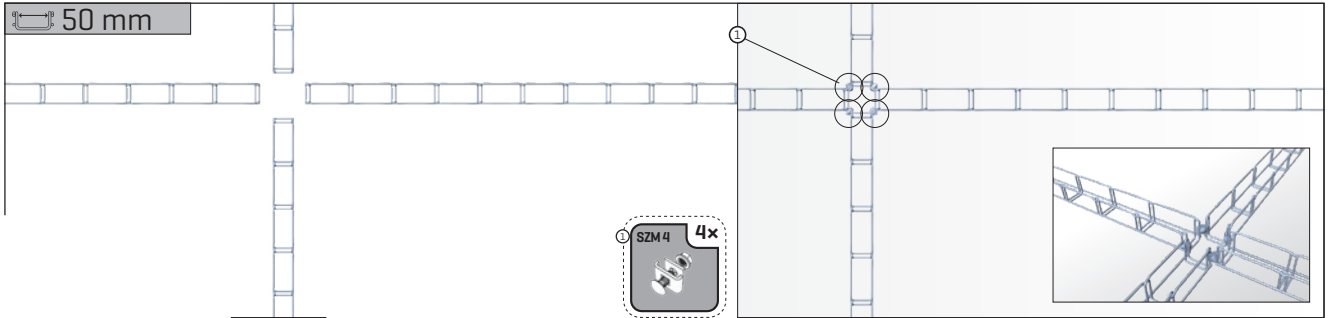
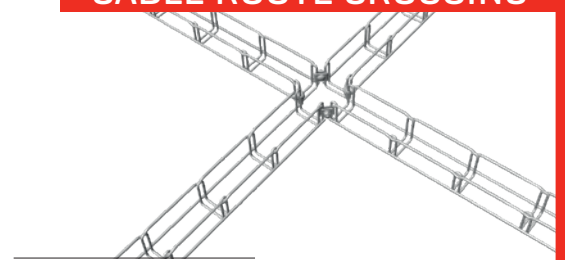


SPM4 2x  **SPM1 2x** 

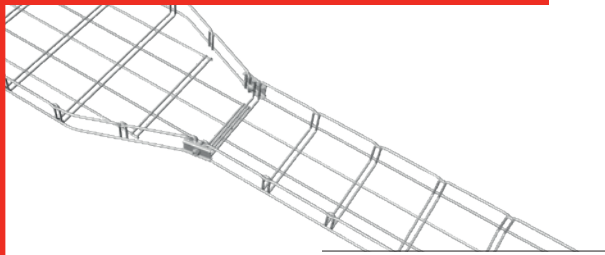
1 

500 mm 

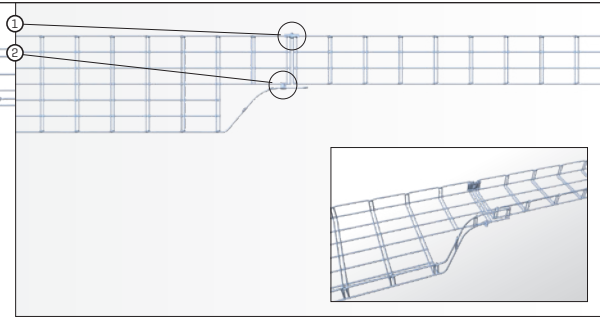
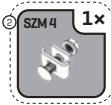
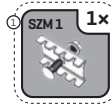
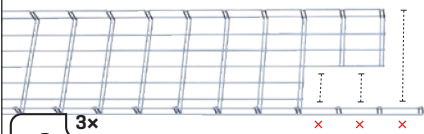




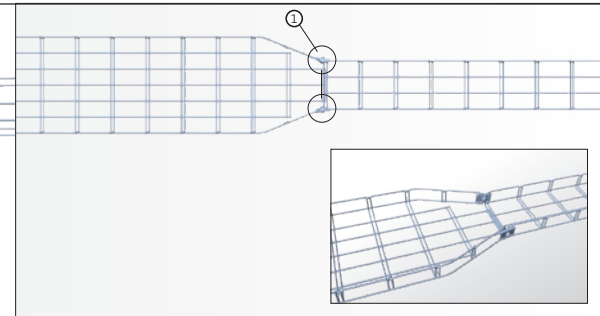
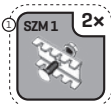
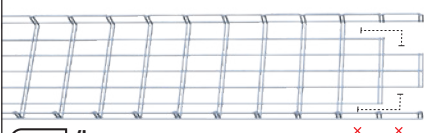
CABLE ROUTE CONNECTING



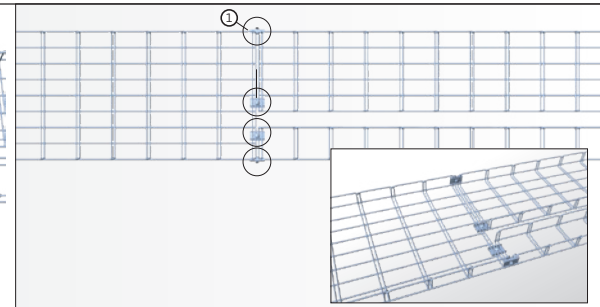
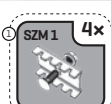
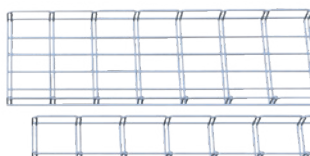
reducing size



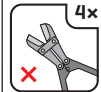
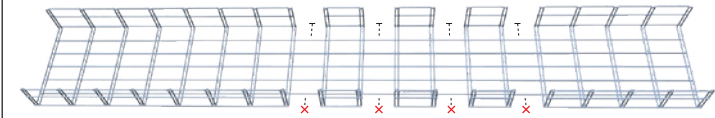
reducing size



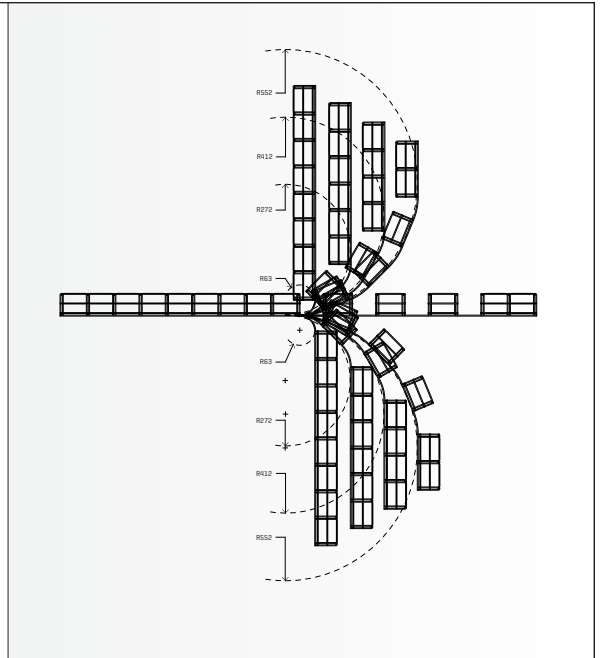
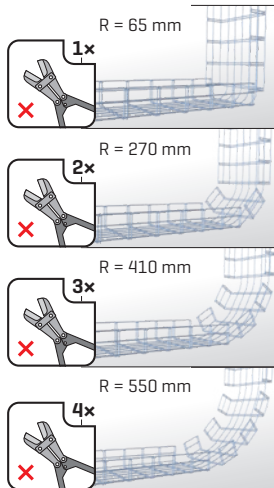
connecting 2 in 1



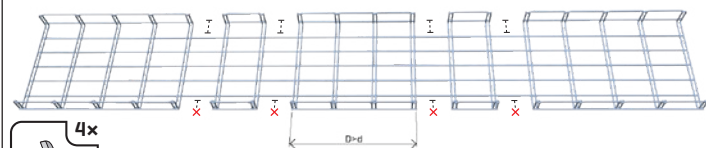
50, 100 mm



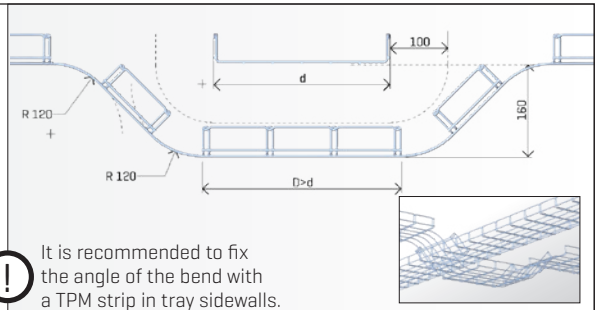
Bending of cable routes in space as transitions from horizontal to vertical mounting should be implemented according to the desired radius of the route curvature. By making more cuts, even large radii of curvature can be achieved. The radius of bends and the bending diagram are also valid for 50 mm sidewall height.



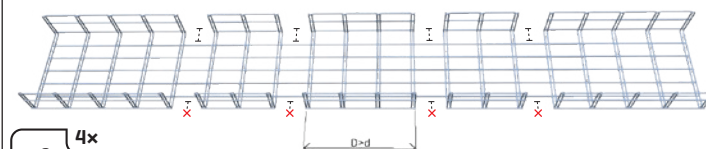
50 mm



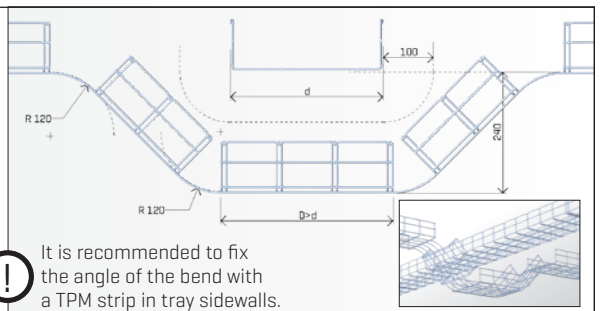
Spatial passing by is governed by the dimensions of the main cable route and the height of the sidewall of the route to be bent.



100 mm



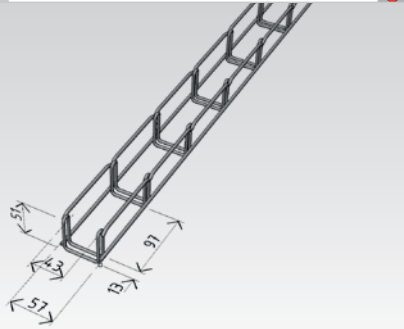
Spatial passing by is governed by the dimensions of the main cable route and the height of the sidewall of the route to be bent.



TECHNICAL ANNEX

CABLE TRAYS

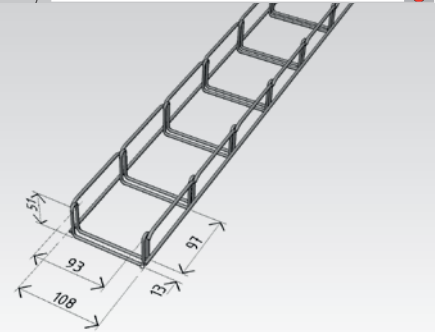
M2 50/50 cable tray



product code

GZ	ARK-211110
ZZ	ARK-221110
A2	ARK-231114
A4	ARK-241114

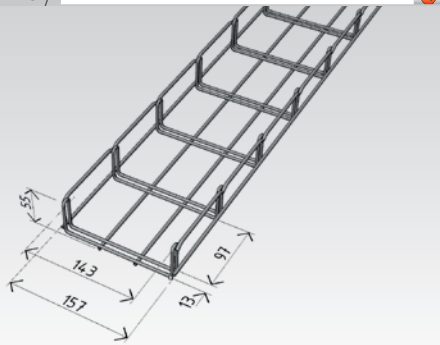
M2 100/50 cable tray



product code

GZ	ARK-211120
ZZ	ARK-221120
A2	ARK-231124
A4	ARK-241124

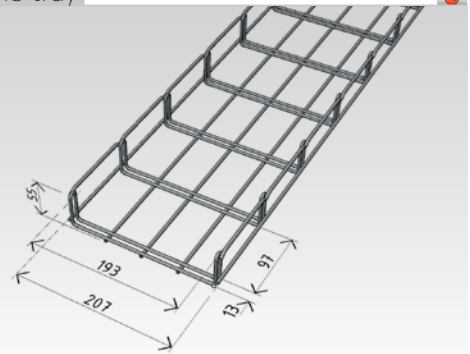
M2 150/50 cable tray



product code

GZ	ARK-211130
ZZ	ARK-221130
A2	ARK-231134
A4	ARK-241134

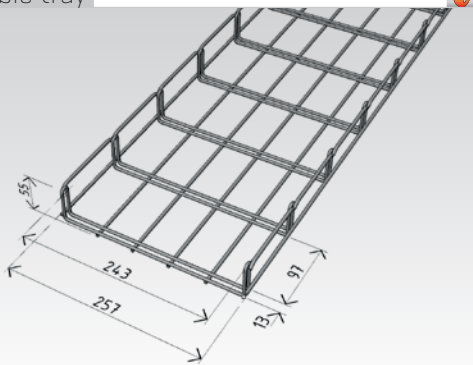
M2 200/50 cable tray



product code

GZ	ARK-211140
ZZ	ARK-221140
A2	ARK-231144
A4	ARK-241144

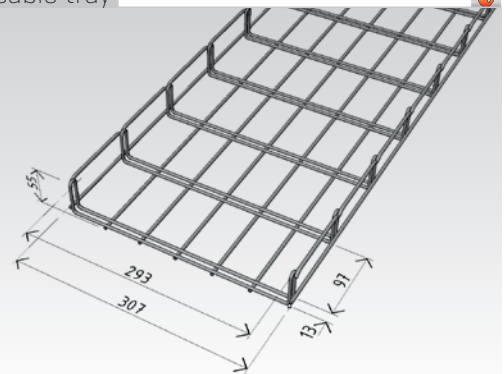
M2 250/50 cable tray



product code

GZ	ARK-211150
ZZ	ARK-221150
A2	ARK-231154
A4	ARK-241154

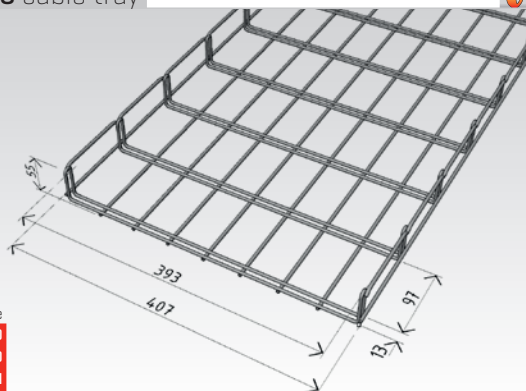
M2 300/50 cable tray



product code

GZ	ARK-211160
ZZ	ARK-221160
A2	ARK-231164
A4	ARK-241164

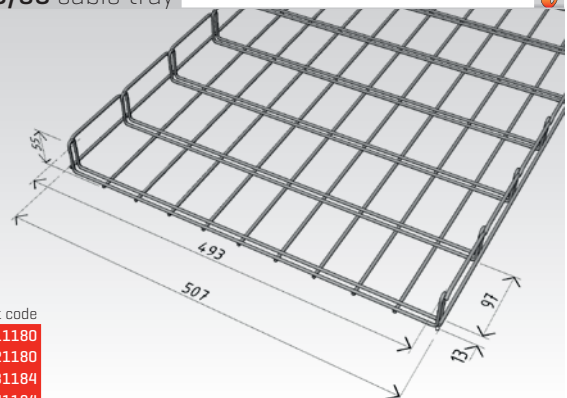
M2 400/50 cable tray



product code

GZ	ARK-211170
ZZ	ARK-221170
A2	ARK-231174
A4	ARK-241174

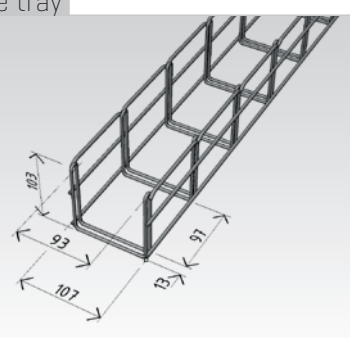
M2 500/50 cable tray



product code

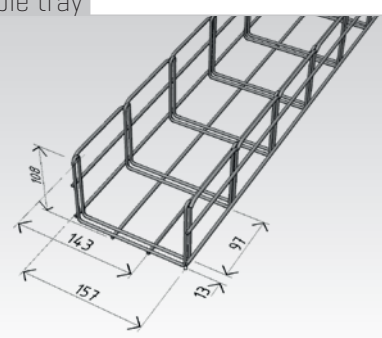
GZ	ARK-211180
ZZ	ARK-221180
A2	ARK-231184
A4	ARK-241184

M2 100/100 cable tray



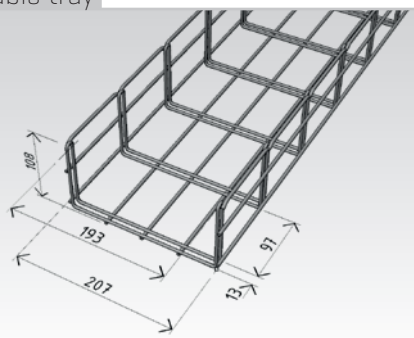
- product code
- GZ ARK-211210
 - ZZ ARK-221210
 - A2 ARK-231214
 - A4 ARK-241214

M2 150/100 cable tray



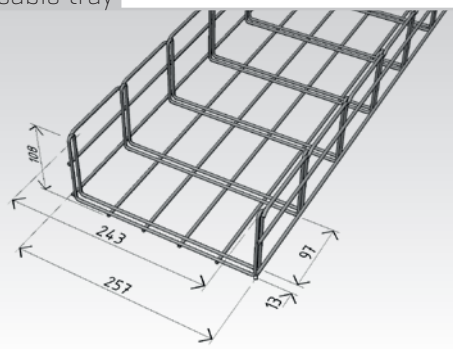
- product code
- GZ ARK-211220
 - ZZ ARK-221220
 - A2 ARK-231224
 - A4 ARK-241224

M2 200/100 cable tray



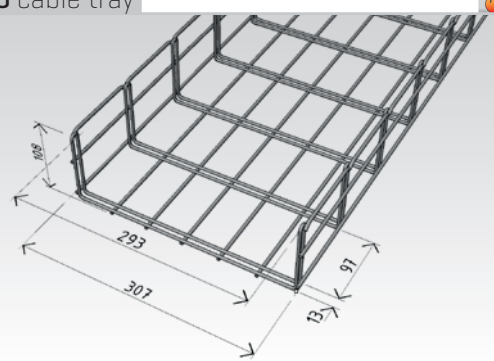
- product code
- GZ ARK-211230
 - ZZ ARK-221230
 - A2 ARK-231234
 - A4 ARK-241234

M2 250/100 cable tray



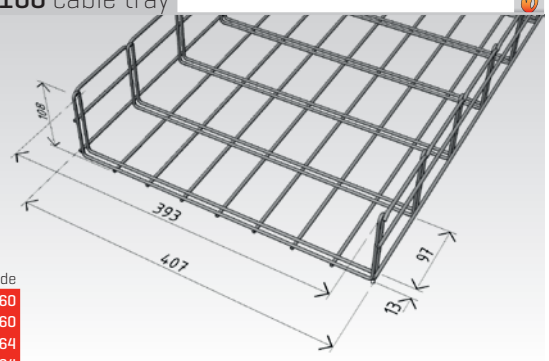
- product code
- GZ ARK-211240
 - ZZ ARK-221240
 - A2 ARK-231244
 - A4 ARK-241244

M2 300/100 cable tray



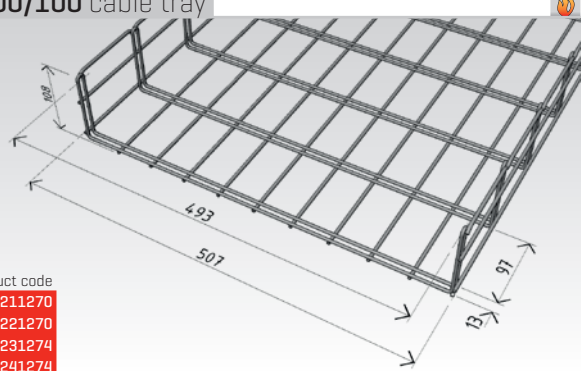
- product code
- GZ ARK-211250
 - ZZ ARK-221250
 - A2 ARK-231254
 - A4 ARK-241254

M2 400/100 cable tray



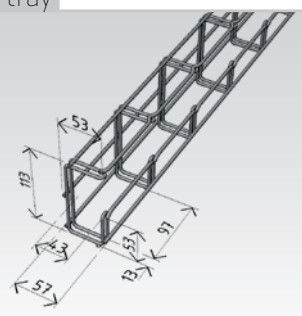
- product code
- GZ ARK-211260
 - ZZ ARK-221260
 - A2 ARK-231264
 - A4 ARK-241264

M2 500/100 cable tray



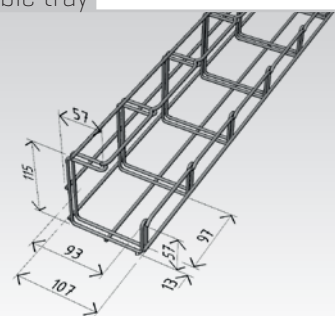
- product code
- GZ ARK-211270
 - ZZ ARK-221270
 - A2 ARK-231274
 - A4 ARK-241274

M2-G 50/100 cable tray



- product code
- GZ ARK-211310
 - ZZ ARK-221310
 - A2 ARK-231314
 - A4 ARK-241314

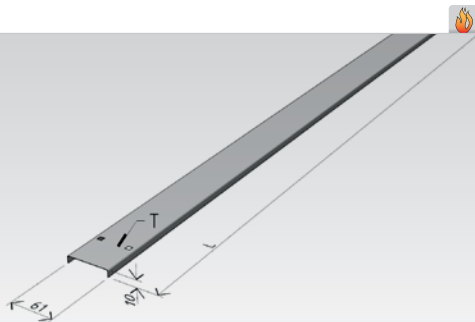
M2-G 100/100 cable tray



- product code
- GZ ARK-211320
 - ZZ ARK-221320
 - A2 ARK-231324
 - A4 ARK-241324

COVERS AND DIVIDERS

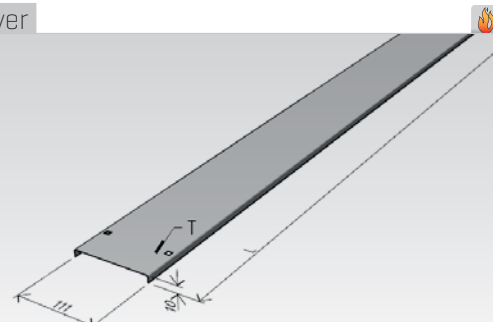
VZM 50 cover



product code
 SZ ARK-222005
 ZZ ARK-222004
 A2 ARK-232005
 A4 ARK-242005

L (cover length)	2 000 mm	1 000 mm
T (plate thickness)	0,55 mm	1,0 mm
	SZ A2 A4	ZZ

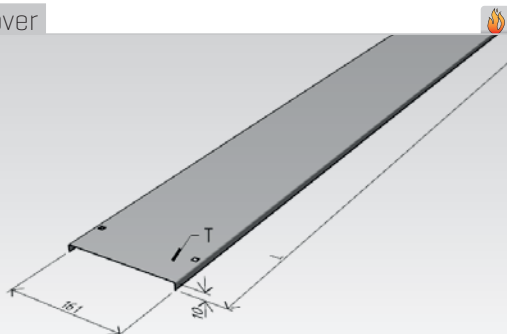
VZM 100 cover



product code
 SZ ARK-222010
 ZZ ARK-222009
 A2 ARK-232010
 A4 ARK-242010

L (cover length)	2 000 mm	1 000 mm
T (plate thickness)	0,55 mm	1,0 mm
	SZ A2 A4	ZZ

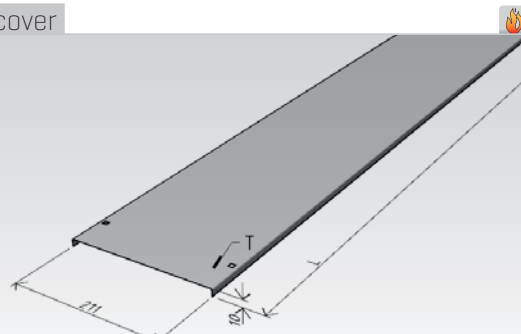
VZM 150 cover



product code
 SZ ARK-222015
 ZZ ARK-222214
 A2 ARK-232015
 A4 ARK-242015

L (cover length)	2 000 mm	1 000 mm
T (plate thickness)	0,55 mm	1,2 mm
	SZ A2 A4	ZZ

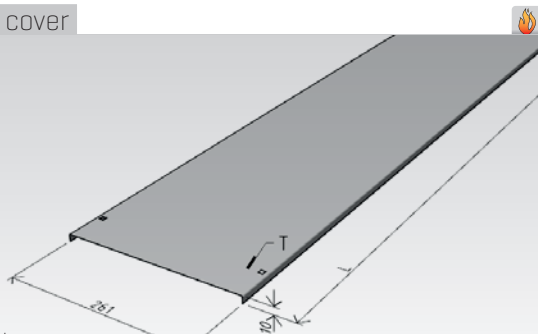
VZM 200 cover



product code
 SZ ARK-222020
 ZZ ARK-222219
 A2 ARK-232020
 A4 ARK-242020

L (cover length)	2 000 mm	1 000 mm
T (plate thickness)	0,8 mm	1,2 mm
	SZ A2 A4	ZZ

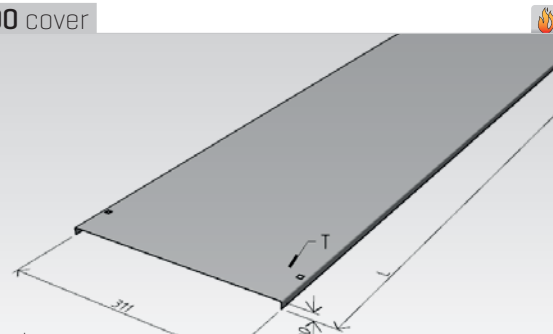
VZM 250 cover



product code
 SZ ARK-222025
 ZZ ARK-222224
 A2 ARK-232025
 A4 ARK-242025

L (cover length)	2 000 mm	1 000 mm
T (plate thickness)	0,8 mm	1,2 mm
	SZ A2 A4	ZZ

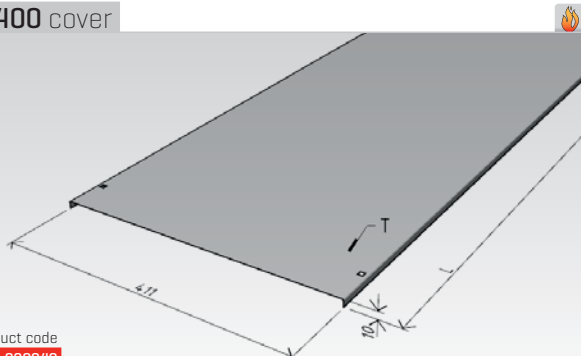
VZM 300 cover



product code
 SZ ARK-222030
 ZZ ARK-222229
 A2 ARK-232030
 A4 ARK-242030

L (cover length)	2 000 mm	1 000 mm
T (plate thickness)	0,8 mm	1,5 mm
	SZ A2 A4	ZZ

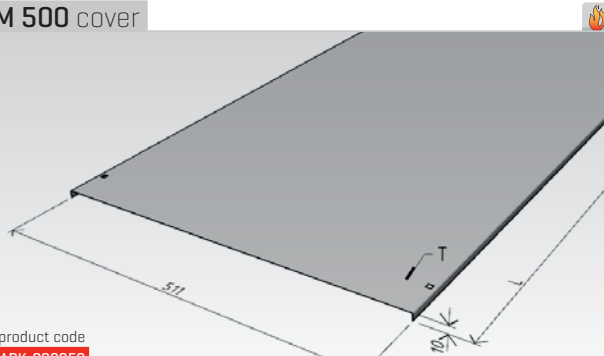
VZM 400 cover



product code
 SZ ARK-222040
 ZZ ARK-222239
 A2 ARK-232040
 A4 ARK-242040

L (cover length)	2 000 mm	1 000 mm
T (plate thickness)	0,8 mm	1,5 mm
	SZ A2 A4	ZZ

VZM 500 cover



product code
 SZ ARK-222050
 ZZ ARK-222249
 A2 ARK-232050
 A4 ARK-242050

L (cover length)	2 000 mm	1 000 mm
T (plate thickness)	0,8 mm	1,5 mm
	SZ A2 A4	ZZ

KPZM 50 divider

product code

SZ	ARK-222105
ZZ	ARK-222305
A2	ARK-232105
A4	ARK-242105

T (plate thickness)	0,8 mm	1,0 mm
	SZ A2 A4	ZZ

KPZM 100 divider

product code

SZ	ARK-222110
ZZ	ARK-222310
A2	ARK-232110
A4	ARK-242110

T (plate thickness)	0,8 mm	1,0 mm
	SZ A2 A4	ZZ

KPZMP 50 divider - fire resistant

product code

SZ	ARK-222115
ZZ	ARK-222315
A2	ARK-232115

T (plate thickness)	1,5 mm
	SZ ZZ A2

KPZMP 100 divider - fire resistant

product code

SZ	ARK-222120
ZZ	ARK-222320
A2	ARK-232120

T (plate thickness)	1,5 mm
	SZ ZZ A2

COUPLERS, CLAMPS

SZM 1 coupler

product code

GZ	ARK-213010
ZZ	ARK-223010
A2	ARK-233010
A4	ARK-243010

T (plate thickness)	1,5 mm
	GZ ZZ A2 A4

SZM 1-R fast coupler, boltless

product code

GZ	ARK-213017
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T (plate thickness)	1,5 mm
	GZ

SKHM 1 angular connector

product code

GZ	ARK-213067
ZZ	ARK-223067
A2	ARK-233067

T (plate thickness)	1,5 mm
	GZ ZZ A2

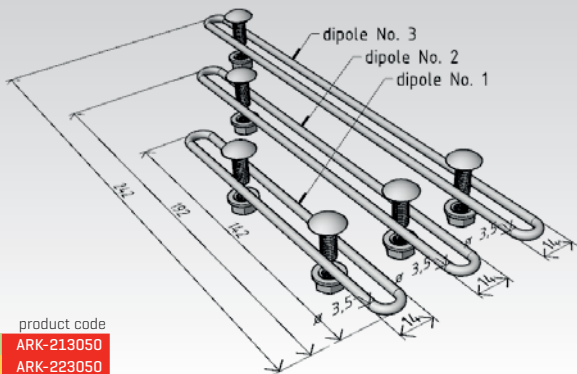
SZM 4 installation coupler set

product code

GZ	ARK-213040
ZZ	ARK-223040
A2	ARK-233040
A4	ARK-243040

T (plate thickness)	2,0 mm
	GZ ZZ A2 A4

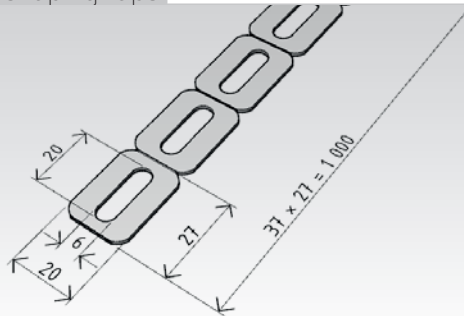
TSM 50-100 installation set



product code

GZ	ARK-213050
ZZ	ARK-223050
A2	ARK-233054
A4	ARK-243054

TPM 1000 shaping tape



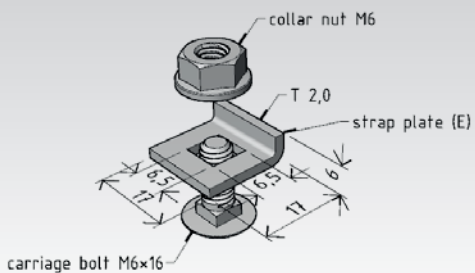
product code

SZ	ARK-223056
A2	ARK-233056

T (plate thickness)	1.5 mm
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SZ A2

SVM 1 cover clamp



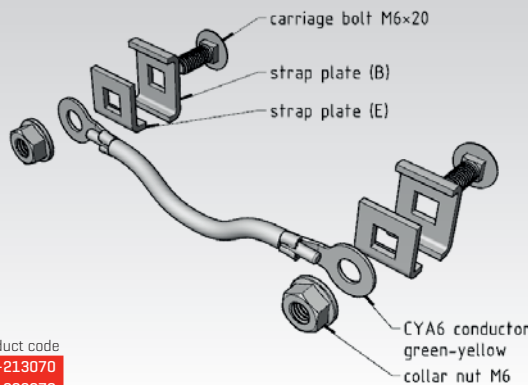
product code

GZ	ARK-213085
ZZ	ARK-223085
A2	ARK-233085
A4	ARK-243085

T (plate thickness)	2.0 mm
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GZ ZZ A2 A4

SUM 1 earth conductor connector



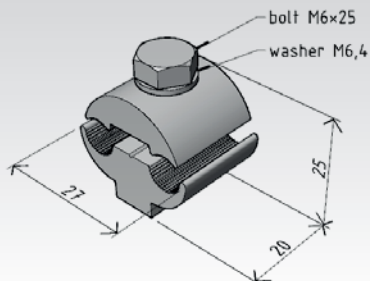
product code

GZ	ARK-213070
ZZ	ARK-223070
A2	ARK-233070
A4	ARK-243070

T (plate thickness) strap plate B, E	2.0 mm
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GZ ZZ A2 A4

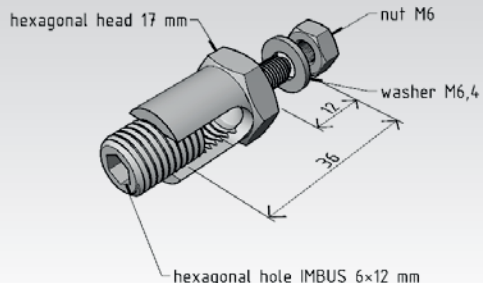
SVZM 1 earth conductor clamp



product code

ARK-213078	Connector and connecting material - brass
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SVZM 3 earth conductor clamp

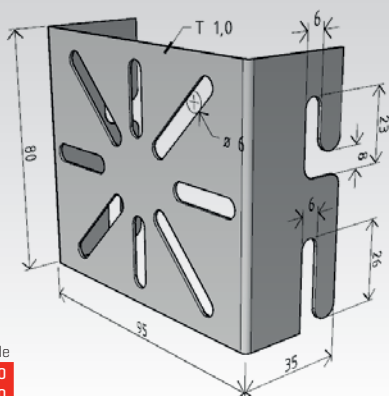


product code

ARK-213077	Connector and connecting material - brass
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HANGERS, FASTENERS...

DZM 1 mounting plate



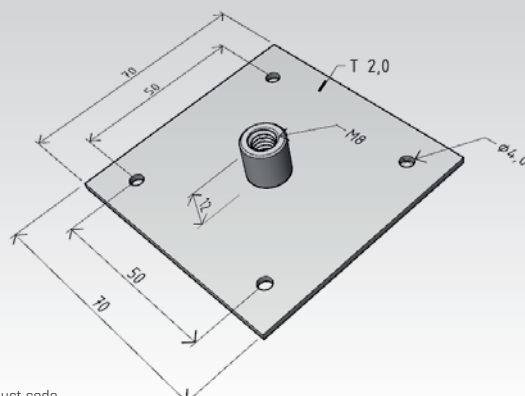
product code

GZ	ARK-214010
ZZ	ARK-224010
A2	ARK-234010
A4	ARK-244010

T (plate thickness)	1.0 mm
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GZ ZZ A2 A4

DZM 2 threaded rod hanger



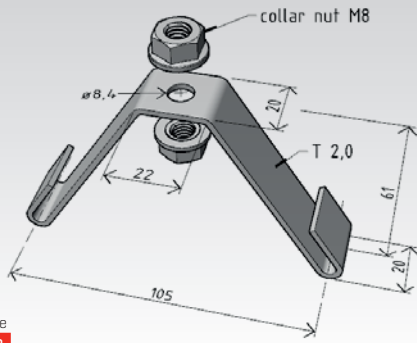
product code

GZ	ARK-214020
A2	ARK-234020

T (plate thickness)	2.0 mm
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GZ A2

DZM 3/100 central hanger

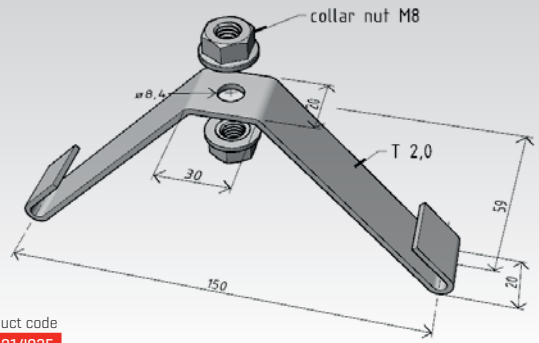


product code

GZ	ARK-214030
ZZ	ARK-224030
A2	ARK-234030
A4	ARK-244030

T (plate thickness)	2.0 mm		
GZ	ZZ	A2	A4

DZM 3/150 central hanger

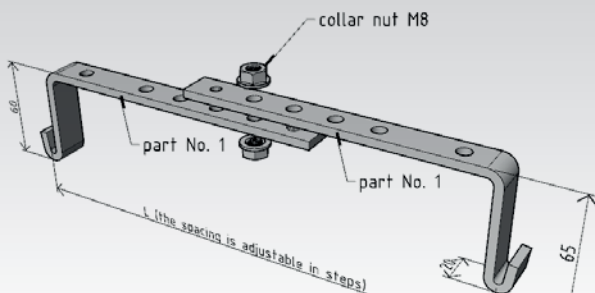


product code

GZ	ARK-214035
ZZ	ARK-224035
A2	ARK-234035
A4	ARK-244035

T (plate thickness)	2.0 mm		
GZ	ZZ	A2	A4

DZM 4 adjustable central hanger

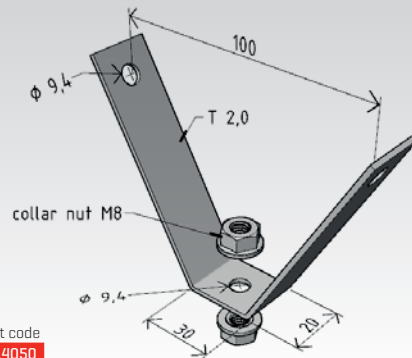


product code

GZ	ARK-214040
ZZ	ARK-224040
A2	ARK-234040

T (plate thickness)	5.0 mm		
GZ	ZZ	A2	A4

DZM 5 trapezoidal sheet hanger

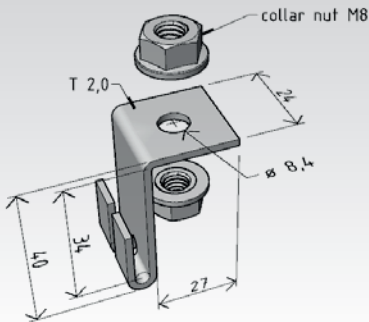


product code

GZ	ARK-214050
ZZ	ARK-224050
A2	ARK-234050
A4	ARK-244050

T (plate thickness)	2.0 mm		
GZ	ZZ	A2	A4

DZM 6 side hanger

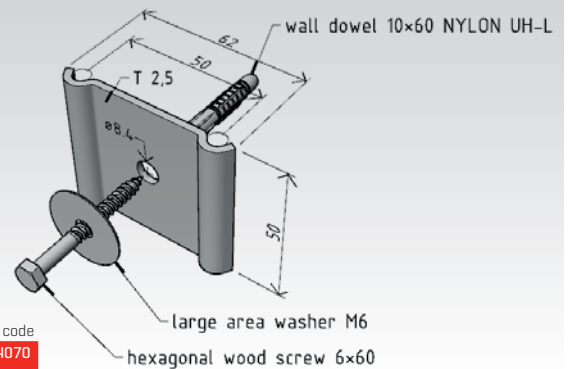


product code

GZ	ARK-214060
ZZ	ARK-224060
A2	ARK-234060
A4	ARK-244060

T (plate thickness)	2.0 mm		
GZ	ZZ	A2	A4

DZM 7 wall bracket

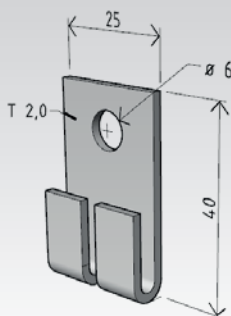


product code

GZ	ARK-214070
ZZ	ARK-224070
A2	ARK-234070
A4	ARK-244070

T (plate thickness)	2.5 mm		
GZ	ZZ	A2	A4

DZM 8 wall bracket

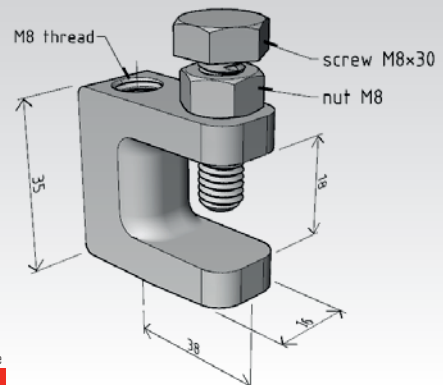


product code

GZ	ARK-214080
ZZ	ARK-224080
A2	ARK-234080
A4	ARK-244080

T (plate thickness)	2.0 mm		
GZ	ZZ	A2	A4

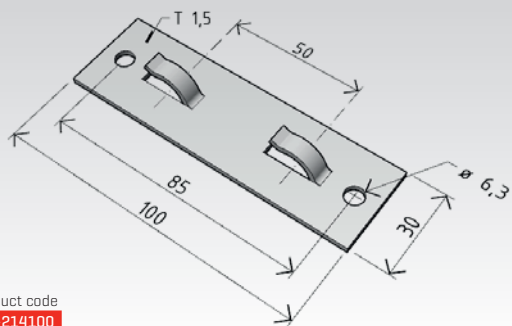
DZM 9 beam clamp



product code

GZ	ARK-214090
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DZM 10 wall bracket



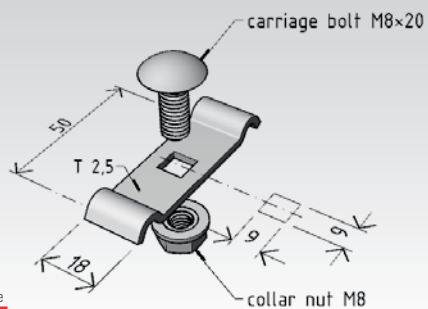
product code

GZ	ARK-214100
ZZ	ARK-224100
A2	ARK-234100
A4	ARK-244100

T (plate thickness)	1.5 mm
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GZ ZZ A2 A4

DZM 11 fixing bracket



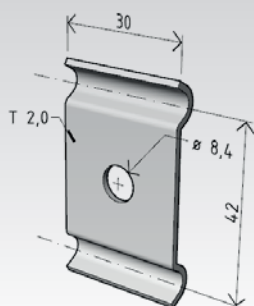
product code

GZ	ARK-214110
ZZ	ARK-224112
A2	ARK-234110
A4	ARK-244110

T (plate thickness)	2.5 mm
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GZ ZZ A2 A4

DZM 12 wall bracket



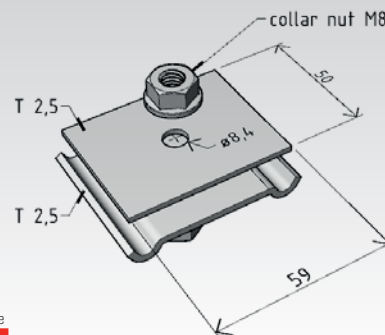
product code

GZ	ARK-214120
ZZ	ARK-224120
A2	ARK-234120
A4	ARK-244120

T (plate thickness)	2.0 mm
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GZ ZZ A2 A4

DZM 13 suspension hanger



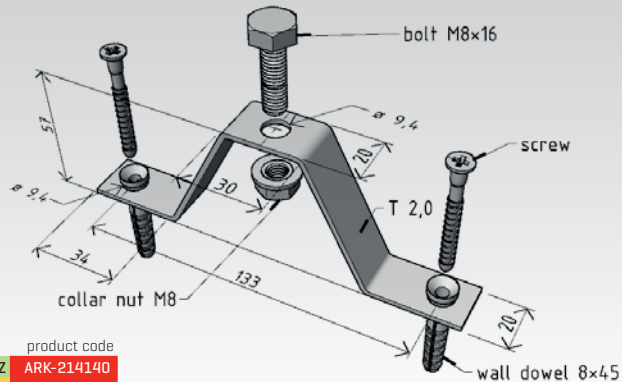
product code

GZ	ARK-214130
ZZ	ARK-224130
A2	ARK-234130
A4	ARK-244130

T (plate thickness)	2.5 mm
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GZ ZZ A2 A4

DZM 14 floor bracket



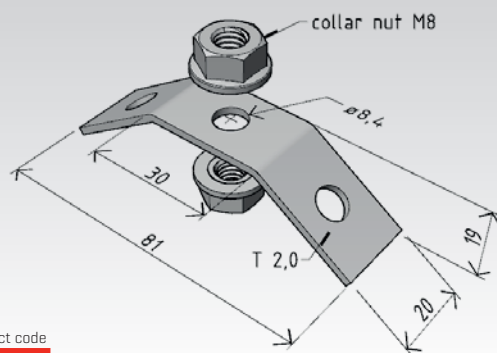
product code

GZ	ARK-214140
ZZ	ARK-224140
A2	ARK-234140
A4	ARK-244140

T (plate thickness)	2.0 mm
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GZ ZZ A2 A4

DZM 15 suspension hanger



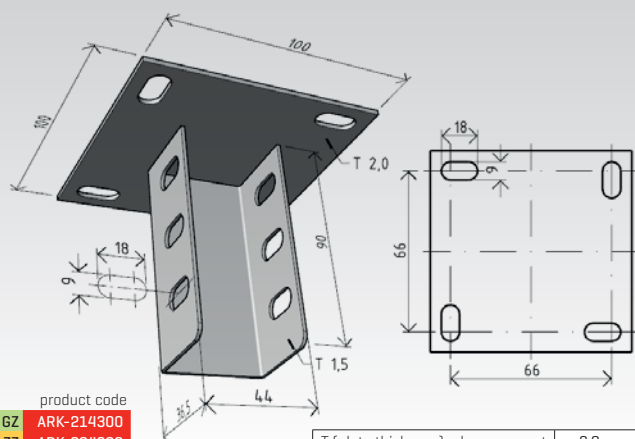
product code

GZ	ARK-214150
ZZ	ARK-224150
A2	ARK-234150
A4	ARK-244150

T (plate thickness)	2.0 mm
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GZ ZZ A2 A4

DZM STP mounting profile head



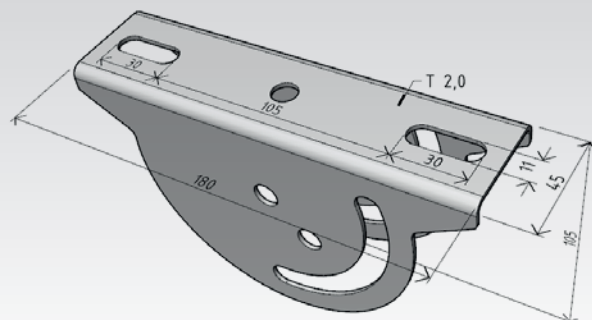
product code

GZ	ARK-214300
ZZ	ARK-224300
A2	ARK-234304
A4	ARK-244304

T (plate thickness) - base support	2.0 mm
T (plate thickness) - body	1.5 mm

GZ ZZ A2 A4

DZM STPU angular mounting profile head



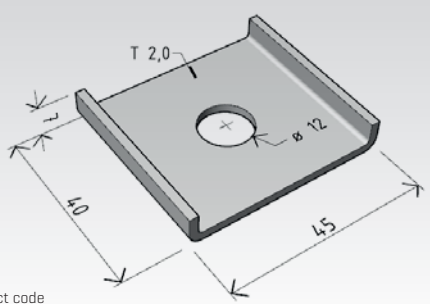
product code

ZZ	ARK-224310
A2	ARK-234310
A4	ARK-244310

T (plate thickness)	2.0 mm
---------------------	--------

ZZ A2 A4

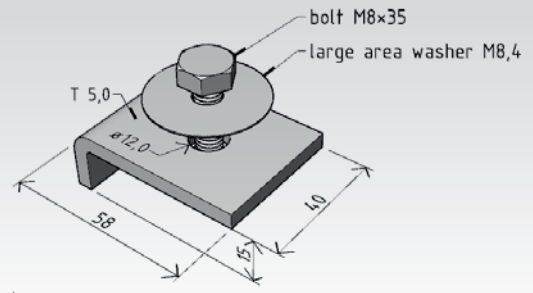
PVM rail strut fixing clamp



product code
GZ ARK-218953
ZZ ARK-228953
A2 ARK-238953
A4 ARK-248953

T (plate thickness)	2.0 mm
	GZ ZZ A2 A4

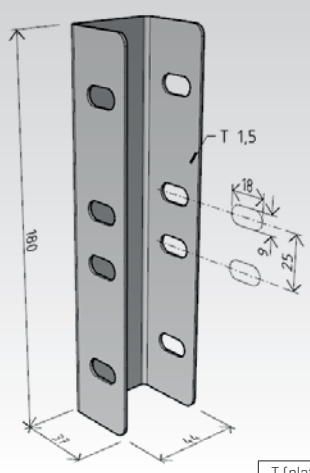
PIM I profile fixing clamp



product code
GZ ARK-218960
ZZ ARK-228960
A2 ARK-238960
A4 ARK-248960

T (plate thickness)	5.0 mm
	GZ ZZ A2 A4

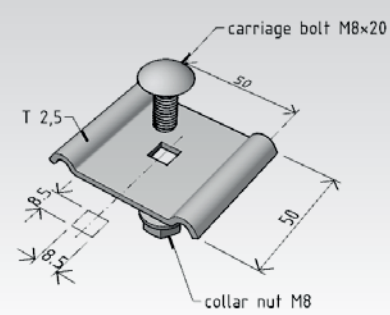
SSPM splice plate



product code
ZZ ARK-223095

T (plate thickness)	1.5 mm
	ZZ

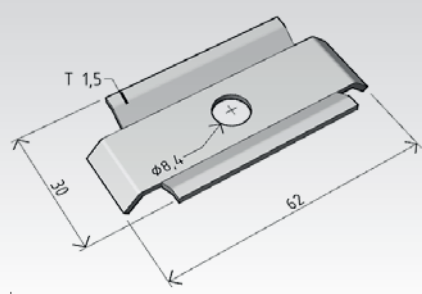
PZSM 2 fixing clamp



product code
GZ ARK-218956
ZZ ARK-228956
A2 ARK-238956

T (plate thickness)	2.5 mm
	GZ ZZ A2

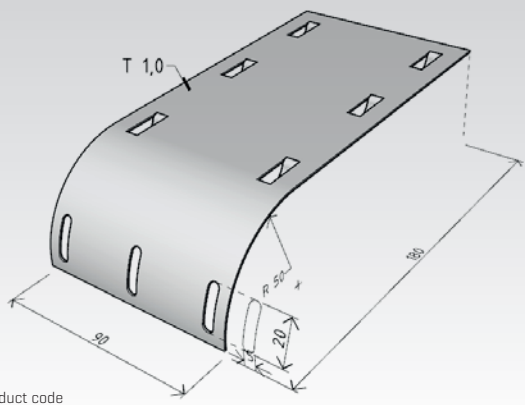
SVSM fixing plate



product code
GZ ARK-218958

T (plate thickness)	1.5 mm
	GZ

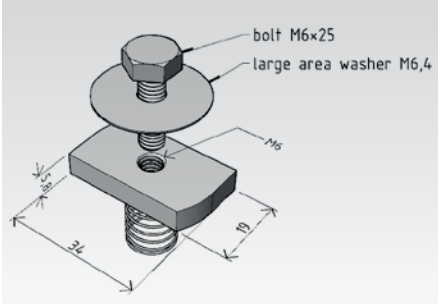
KSM drop-out plate



product code
GZ ARK-212410
ZZ ARK-222410
A2 ARK-232410

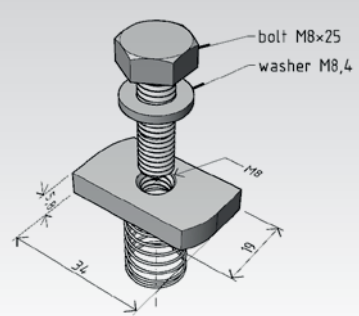
T (plate thickness)	1.0 mm
	GZ ZZ A2

MSM/M6 rectangular nut with spring



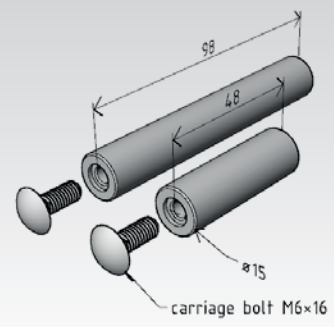
product code
GZ ARK-218951
A2 ARK-238951

MSM/M8 rectangular nut with spring



product code
GZ ARK-218952
A2 ARK-238952

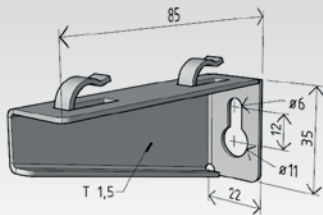
KOM cable separator



	product code	height h
KOM 50	plastic ARK-219975	48 mm
KOM 100	plastic ARK-219976	98 mm

BRACKETS

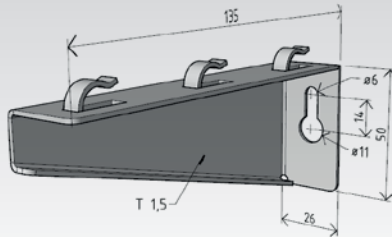
NZM 50 bracket



- product code
- GZ ARK-215005
 - ZZ ARK-225005
 - A2 ARK-235005
 - A4 ARK-245005

T (plate thickness)	1.5 mm
	GZ ZZ A2 A4

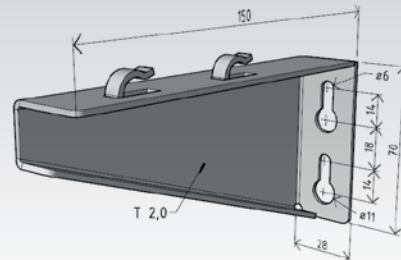
NZM 100 bracket



- product code
- GZ ARK-215010
 - ZZ ARK-225010
 - A2 ARK-235010
 - A4 ARK-245010

T (plate thickness)	1.5 mm
	GZ ZZ A2 A4

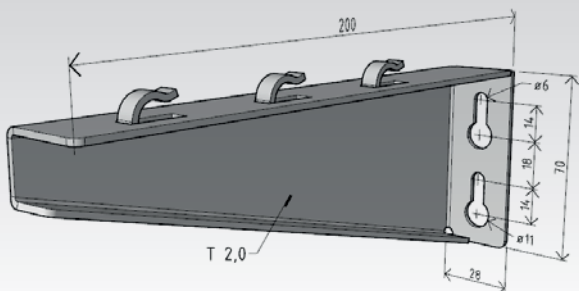
NZM 150 bracket



- product code
- GZ ARK-215015
 - ZZ ARK-225015
 - A2 ARK-235015
 - A4 ARK-245015

T (plate thickness)	2.0 mm
	GZ ZZ A2 A4

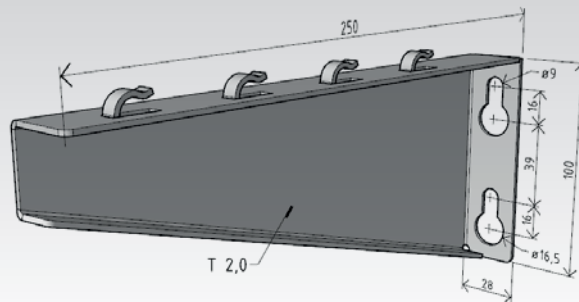
NZM 200 bracket



- product code
- GZ ARK-215020
 - ZZ ARK-225020
 - A2 ARK-235020
 - A4 ARK-245020

T (plate thickness)	2.0 mm
	GZ ZZ A2 A4

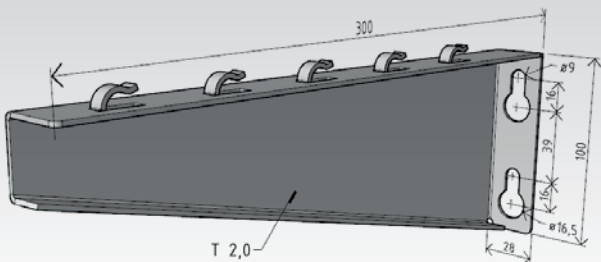
NZM 250 bracket



- product code
- GZ ARK-215025
 - ZZ ARK-225025
 - A2 ARK-235025
 - A4 ARK-245025

T (plate thickness)	2.0 mm
	GZ ZZ A2 A4

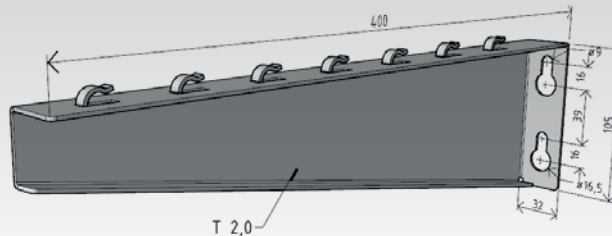
NZM 300 bracket



- product code
- GZ ARK-215030
 - ZZ ARK-225030
 - A2 ARK-235030
 - A4 ARK-245030

T (plate thickness)	2.0 mm
	GZ ZZ A2 A4

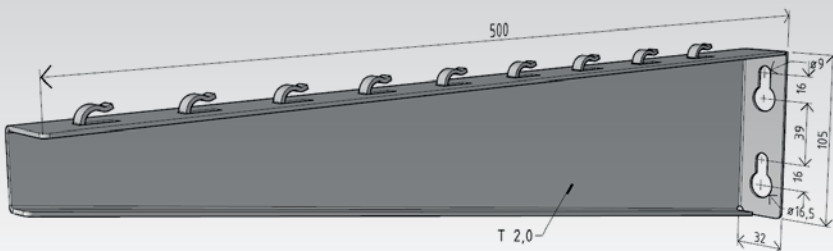
NZM 400 bracket



- product code
- GZ ARK-215040
 - ZZ ARK-225040
 - A2 ARK-235044
 - A4 ARK-245044

T (plate thickness)	2.0 mm
	GZ ZZ A2 A4

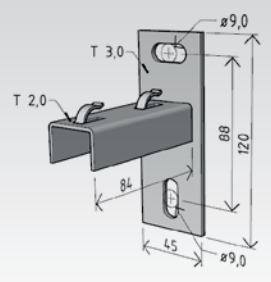
NZM 500 bracket



- product code
- GZ ARK-215050
 - ZZ ARK-225050
 - A2 ARK-235054
 - A4 ARK-245054

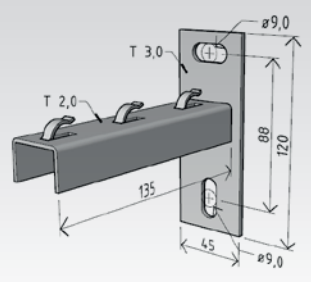
T (plate thickness)	2.0 mm
	GZ ZZ A2 A4

NPZM 50 bracket



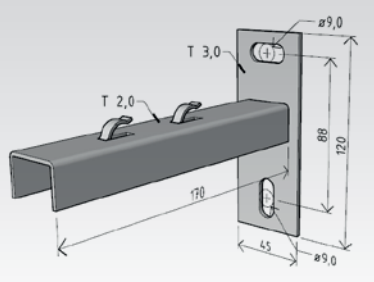
product code			
GZ	ARK-215105	T (plate thickness) - U-profile	2.0 mm
ZZ	ARK-225105	T (plate thickness) - base support	3.0 mm
		GZ ZZ	

NPZM 100 bracket



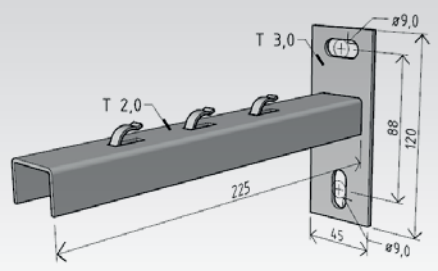
product code			
GZ	ARK-215110	T (plate thickness) - U-profile	2.0 mm
ZZ	ARK-225110	T (plate thickness) - base support	3.0 mm
		GZ ZZ	

NPZM 150 bracket



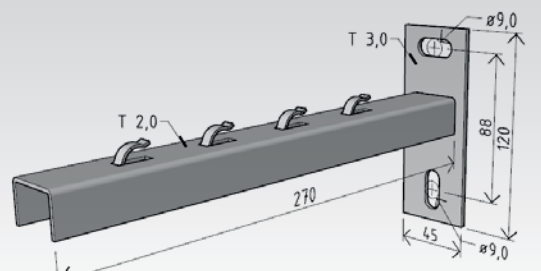
product code			
GZ	ARK-215115	T (plate thickness) - U-profile	2.0 mm
ZZ	ARK-225115	T (plate thickness) - base support	3.0 mm
		GZ ZZ	

NPZM 200 bracket



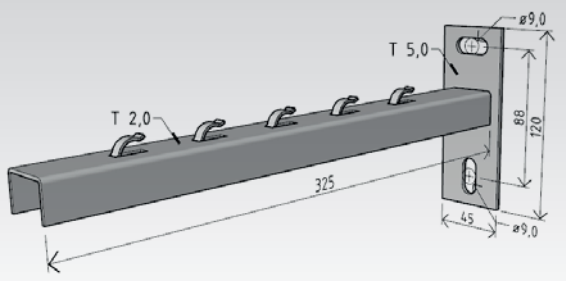
product code			
GZ	ARK-215120	T (plate thickness) - U-profile	2.0 mm
ZZ	ARK-225120	T (plate thickness) - base support	3.0 mm
		GZ ZZ	

NPZM 250 bracket



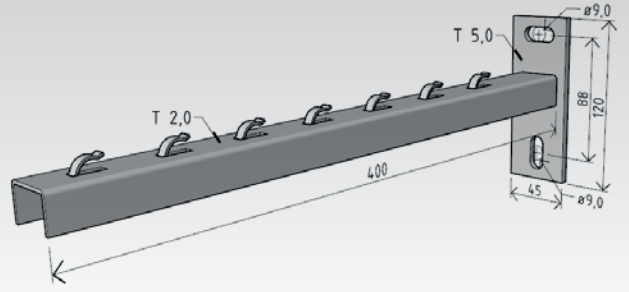
product code			
GZ	ARK-215125	T (plate thickness) - U-profile	2.0 mm
ZZ	ARK-225125	T (plate thickness) - base support	3.0 mm
		GZ ZZ	

NPZM 300 bracket



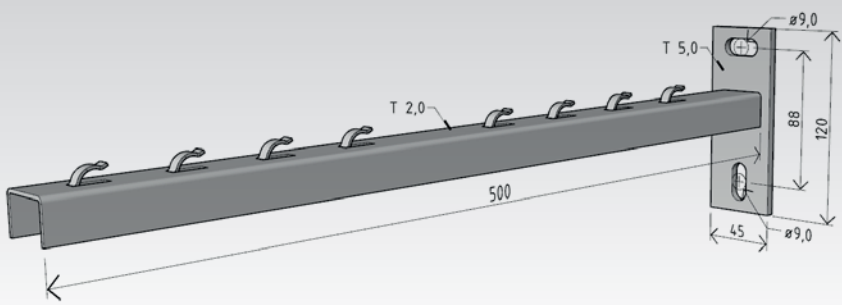
product code			
GZ	ARK-215130	T (plate thickness) - U-profile	2.0 mm
ZZ	ARK-225130	T (plate thickness) - base support	5.0 mm
		GZ ZZ	

NPZM 400 bracket



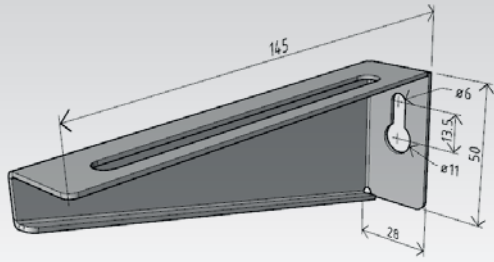
product code			
GZ	ARK-215140	T (plate thickness) - U-profile	2.0 mm
ZZ	ARK-225140	T (plate thickness) - base support	5.0 mm
		GZ ZZ	

NPZM 500 bracket



product code			
GZ	ARK-215150	T (plate thickness) - U-profile	2.0 mm
ZZ	ARK-225150	T (plate thickness) - base support	5.0 mm
		GZ ZZ	

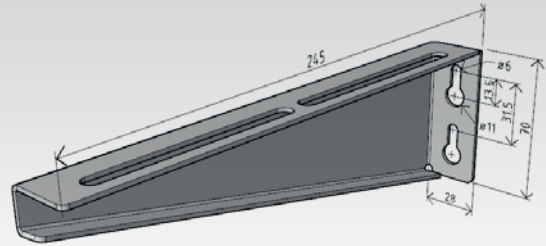
NZMU 100 universal bracket



product code
GZ ARK-215310
ZZ ARK-225310
A2 ARK-235310

T (plate thickness) 1.5 mm
GZ ZZ A2

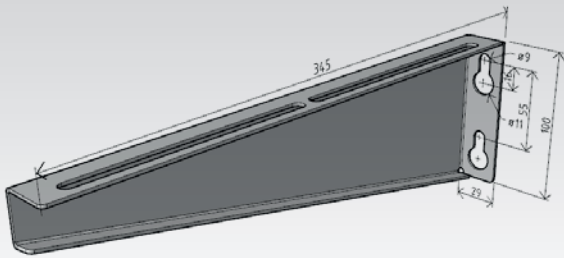
NZMU 200 universal bracket



product code
GZ ARK-215320
ZZ ARK-225320
A2 ARK-235320

T (plate thickness) 2.0 mm
GZ ZZ A2

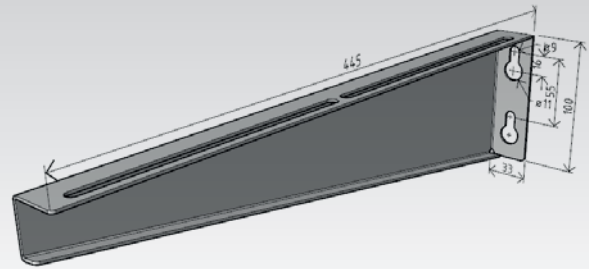
NZMU 300 universal bracket



product code
GZ ARK-215330
ZZ ARK-225330
A2 ARK-235330

T (plate thickness) 2.0 mm
GZ ZZ A2

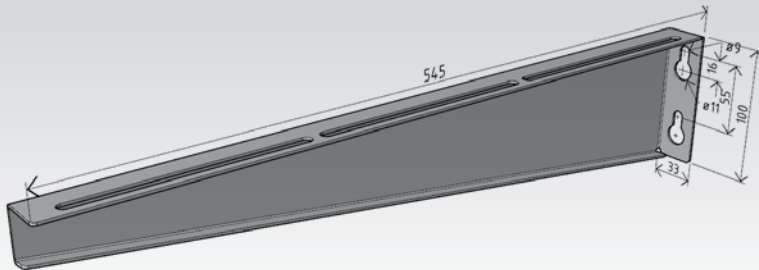
NZMU 400 universal bracket



product code
GZ ARK-215340
ZZ ARK-225340
A2 ARK-235344

T (plate thickness) 2.0 mm
GZ ZZ A2

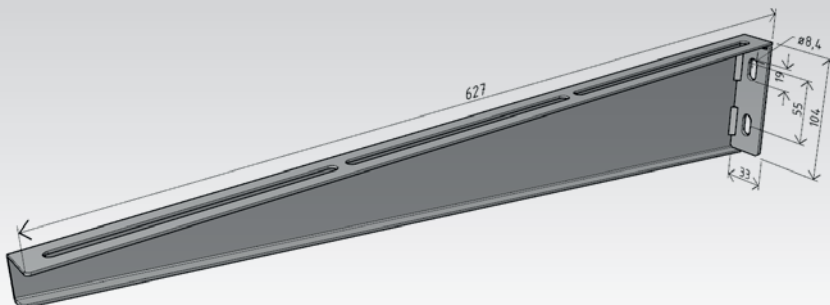
NZMU 500 universal bracket



product code
GZ ARK-215350
ZZ ARK-225350
A2 ARK-235354

T (plate thickness) 2.0 mm
GZ ZZ A2

NZMU 600 universal bracket



product code
GZ ARK-215360
ZZ ARK-225360
A2 ARK-235364

T (plate thickness) 2.0 mm
GZ ZZ A2

NZMC 100 universal cantilever arm

Technical drawing of the NZMC 100 universal cantilever arm. It includes two detail views: 'det A' showing a hole with a diameter of 11mm and a distance of 30mm from the edge, and 'det B' showing a hole with a diameter of 11mm and a distance of 30mm from the edge. The main drawing shows a U-shaped arm with a total length of 170mm, a height of 105mm, and a plate thickness of 2.0mm. The arm has a 5% slope and a 15mm offset. The product code is ARK-225210.

product code
SZ **ARK-225210**

T (plate thickness) 2.0 mm

NZMC 200 universal cantilever arm

Technical drawing of the NZMC 200 universal cantilever arm. It includes two detail views: 'det A' showing a hole with a diameter of 11mm and a distance of 30mm from the edge, and 'det B' showing a hole with a diameter of 11mm and a distance of 30mm from the edge. The main drawing shows a U-shaped arm with a total length of 270mm, a height of 105mm, and a plate thickness of 2.0mm. The arm has a 5% slope and a 15mm offset. The product code is ARK-225220.

product code
SZ **ARK-225220**

T (plate thickness) 2.0 mm

NZMC 300 universal cantilever arm

Technical drawing of the NZMC 300 universal cantilever arm. It includes two detail views: 'det A' showing a hole with a diameter of 11mm and a distance of 30mm from the edge, and 'det B' showing a hole with a diameter of 11mm and a distance of 30mm from the edge. The main drawing shows a U-shaped arm with a total length of 370mm, a height of 105mm, and a plate thickness of 2.0mm. The arm has a 5% slope and a 15mm offset. The product code is ARK-225230.

product code
SZ **ARK-225230**

T (plate thickness) 2.0 mm

NZMC 400 universal cantilever arm

Technical drawing of the NZMC 400 universal cantilever arm. It includes two detail views: 'det A' showing a hole with a diameter of 11mm and a distance of 30mm from the edge, and 'det B' showing a hole with a diameter of 11mm and a distance of 30mm from the edge. The main drawing shows a U-shaped arm with a total length of 470mm, a height of 105mm, and a plate thickness of 2.0mm. The arm has a 5% slope and a 15mm offset. The product code is ARK-225240.

product code
SZ **ARK-225240**

T (plate thickness) 2.0 mm

STRUTS

STPM rail strut with side perforations

Technical drawing of the STPM rail strut with side perforations. It shows a side view of the strut with a length 'L' and a plate thickness 'T'. The side view shows a 5% slope and a 20mm offset. The detail view 'det A' shows a hole with a diameter of 9mm and a distance of 11mm from the edge. The product code is ARK-227xxx.

product code
GZ **ARK-227xxx**
ZZ **ARK-227xxx**
A2 **ARK-237xxx**
A4 **ARK-247xxx**

L (strut length)	see table p. 54
T (plate thickness)	see table p. 54

GZ ZZ A2 A4

STNM rail strut

Technical drawing of the STNM rail strut. It shows a side view of the strut with a length 'L' and a plate thickness 'T'. The side view shows a 5% slope and a 20mm offset. The detail view 'det A' shows a hole with a diameter of 9mm and a distance of 11mm from the edge. The product code is ARK-228xxx.

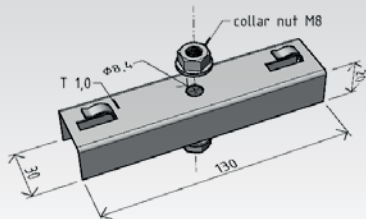
product code
GZ **ARK-228xxx**
ZZ **ARK-228xxx**
A2 **ARK-238xxx**
A4 **ARK-248xxx**

L (strut length)	see table p. 54
T (plate thickness)	see table p. 54

GZ ZZ A2 A4

STRAIGHT BRACKETS

PZM 100 straight bracket

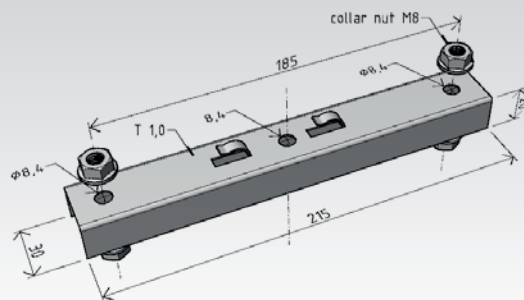


product code

GZ	ARK-216010
ZZ	ARK-226010
A2	ARK-236010
A4	ARK-246010

T (plate thickness)	1.0 mm
	GZ ZZ A2 A4

PZM 150 straight bracket

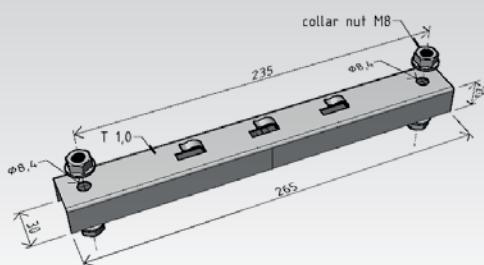


product code

GZ	ARK-216015
ZZ	ARK-226015
A2	ARK-236015
A4	ARK-246015

T (plate thickness)	1.0 mm
	GZ ZZ A2 A4

PZM 200 straight bracket

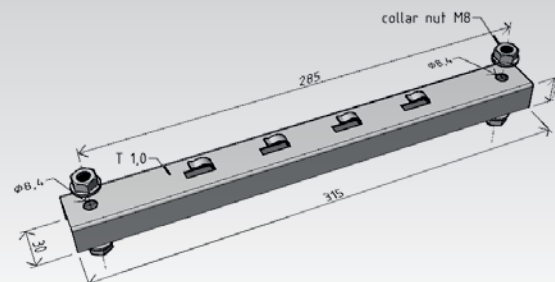


product code

GZ	ARK-216020
ZZ	ARK-226020
A2	ARK-236020
A4	ARK-246020

T (plate thickness)	1.0 mm
	GZ ZZ A2 A4

PZM 250 straight bracket

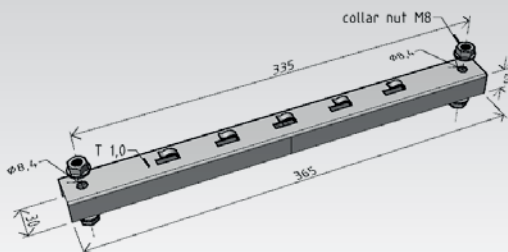


product code

GZ	ARK-216025
ZZ	ARK-226025
A2	ARK-236025
A4	ARK-246025

T (plate thickness)	1.0 mm
	GZ ZZ A2 A4

PZM 300 straight bracket

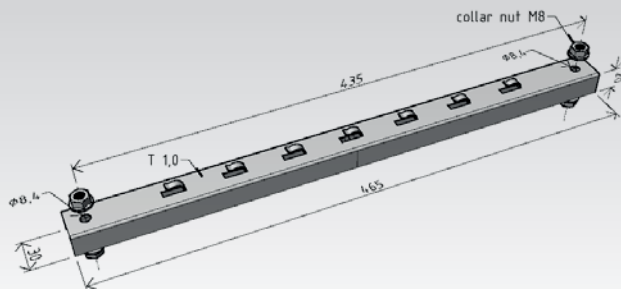


product code

GZ	ARK-216030
ZZ	ARK-226030
A2	ARK-236030
A4	ARK-246030

T (plate thickness)	1.0 mm
	GZ ZZ A2 A4

PZM 400 straight bracket

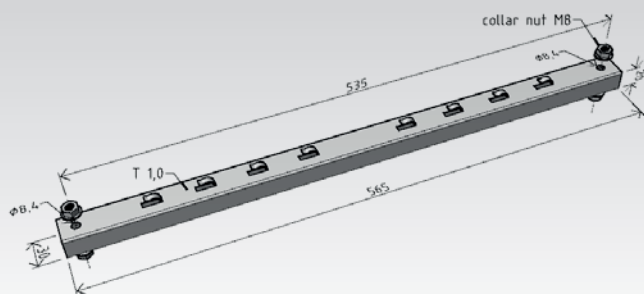


product code

GZ	ARK-216040
ZZ	ARK-226040
A2	ARK-236040
A4	ARK-246040

T (plate thickness)	1.0 mm
	GZ ZZ A2 A4

PZM 500 straight bracket

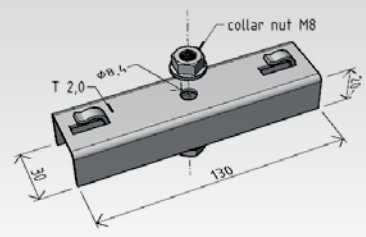


product code

GZ	ARK-216050
ZZ	ARK-226050
A2	ARK-236050
A4	ARK-246050

T (plate thickness)	1.0 mm
	GZ ZZ A2 A4

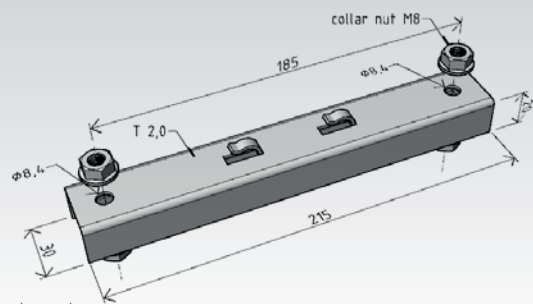
PZMP 100 straight bracket - fire resistant 



product code
GZ ARK-216210
ZZ ARK-226210
A2 ARK-236210

T (plate thickness)	2.0 mm
	GZ ZZ A2

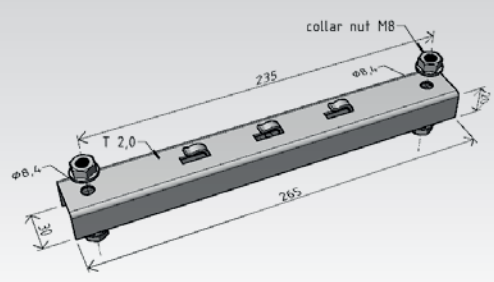
PZMP 150 straight bracket - fire resistant 



product code
GZ ARK-216215
ZZ ARK-226215
A2 ARK-236215

T (plate thickness)	2.0 mm
	GZ ZZ A2

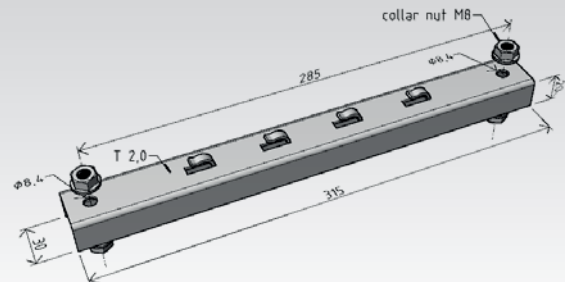
PZMP 200 straight bracket - fire resistant 



product code
GZ ARK-216220
ZZ ARK-226220
A2 ARK-236220

T (plate thickness)	2.0 mm
	GZ ZZ A2

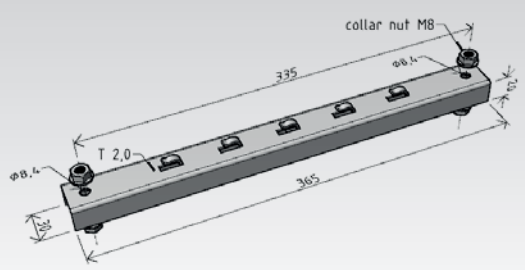
PZMP 250 straight bracket - fire resistant 



product code
GZ ARK-216225
ZZ ARK-226225
A2 ARK-236225

T (plate thickness)	2.0 mm
	GZ ZZ A2

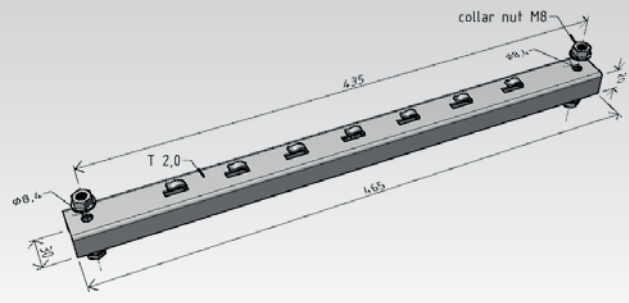
PZMP 300 straight bracket - fire resistant 



product code
GZ ARK-216230
ZZ ARK-226230
A2 ARK-236230

T (plate thickness)	2.0 mm
	GZ ZZ A2

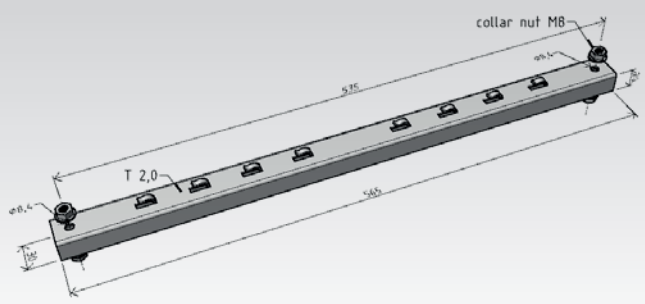
PZMP 400 straight bracket - fire resistant 



product code
GZ ARK-216240
ZZ ARK-226240
A2 ARK-236240

T (plate thickness)	2.0 mm
	GZ ZZ A2

PZMP 500 straight bracket - fire resistant 



product code
GZ ARK-216250
ZZ ARK-226250
A2 ARK-236250

T (plate thickness)	2.0 mm
	GZ ZZ A2

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Product code key

- 1 electrogalvanized
- 2 pre-galvanized
- 3 A2 - stainless AISI 304L
- 4 A4 - stainless AISI 316L

ARK-2x1110

manufacturer code product code
system MERKUR 2 product group

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