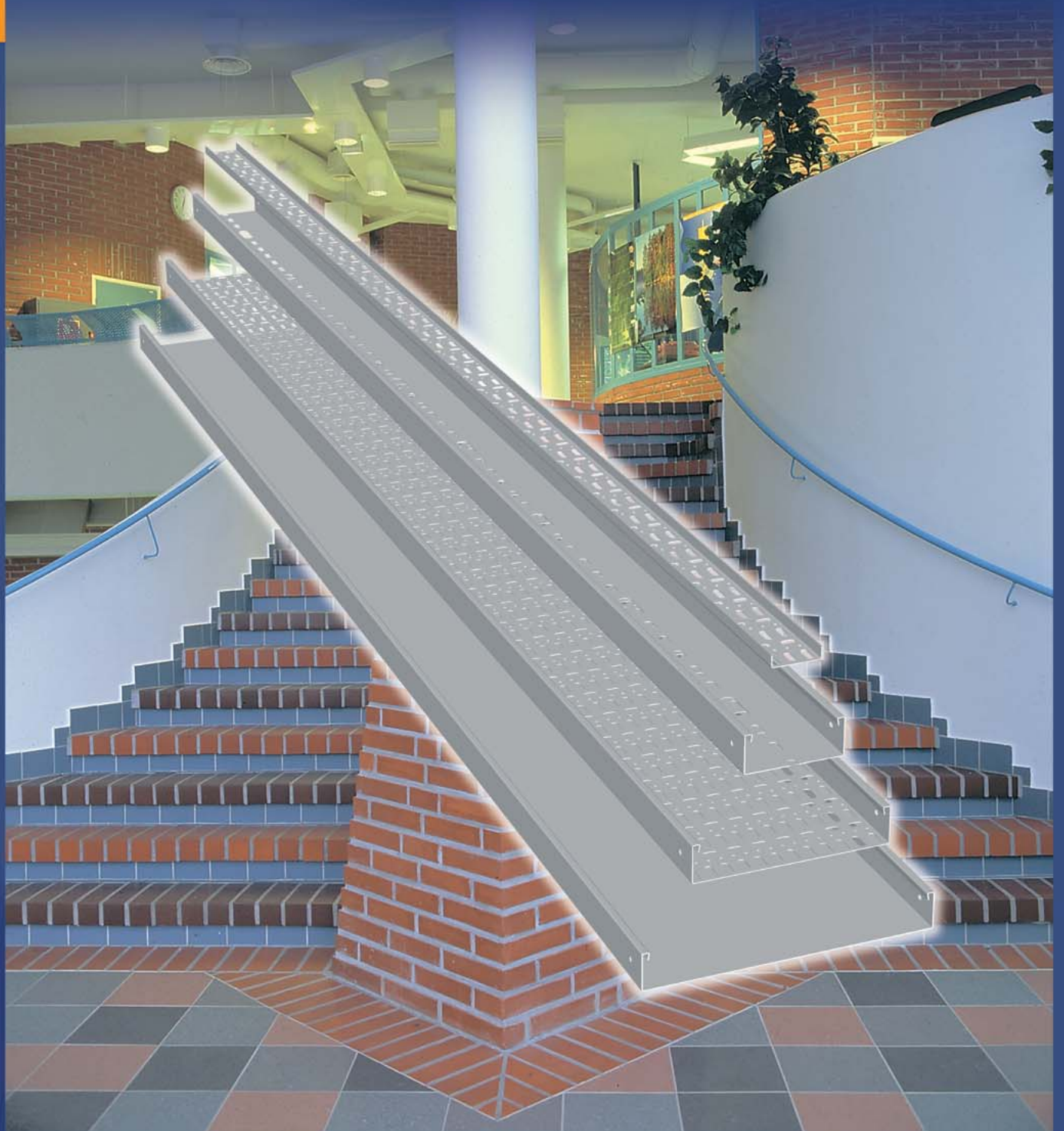


CABLE TRAYS



 **MEKA**

www.meka.net

MEKA

Meka is a Finnish company whose business idea is to produce high-quality and competitive cable support systems for the various construction projects of our customers.

Meka cable support systems are manufactured from high quality raw materials. We operate on all levels based on the principles of sustainable development of the environment. All Meka products are technically tested and meet the given technical specifications.

Designing of Meka products is focused on easy installation facilitated by versatile installation components. This ensures the high quality and applicability of products even in the most demanding environments.

Using Meka's cable support systems is a modern way of electrifying different buildings and spaces easily and economically.

Meka has ISO 9001 Quality System Certificate which is valid for product development, manufacturing and marketing.

PRODUCT RANGE

Cable ladders

KS20, KS30 and KS35 cable ladders - made of hot galvanised metal sheet, coating thickness approx. 20 µm of zinc. Can be used in offices, shops, schools, hospitals, warehouses and industrial spaces (environment classification C1 and C2).

KS80, KSE80 and KSF80 – tube type cable ladders. Hot dip galvanised after manufacture, coating thickness approx. 60 µm of zinc. Can be used for industrial applications where high and concentrated load carrying capacity, lateral rigidity and a durable surface finishing are required. These include: industrial building sites, power plants, food, pharmaceutical and animal feed industry, humid areas and tunnels etc. industrial areas (environment classification C1, C2, C3 and C4).

RST and HST - stainless steel and acid-proof cable ladders can be used in chemical and wood processing industry as well as in other highly corrosive environments. Other places of use are places where hygiene is a vital factor, such as in dairies, slaughter-houses, other areas of food industry and pharmaceutical plants, tunnels etc.

PEX – tube type cable ladders. Hot dip galvanised after manufacture (coating thickness approx. 60 µm of zinc), powder painted and finally hardened in an oven. Can be used in industrial areas with high humidity and harsh atmosphere coastal or offshore areas (environment classification C5-I and C5-M).

Cable trays and lighting tracks

KRA, KRB, KRC and KRV - smooth and perforated cable trays with different height of border: 12, 40, 60, 80 and 110 mm.

MEK 70 and MEK 110 - lighting tracks with special groove for sliding nuts.

Cable trays and lighting tracks are made of hot galvanised sheet metal or hot galvanised, painted and coil coated sheet metal. The standard colour in coil coated products is white (RAL 9010, NCS 0502-Y), other colours are available on request.

Cable trays KR and lighting tracks MEK are used in office buildings, business locations, shopping centres, schools and other public buildings in which the cable trays are an integral part of the interior (environment classification C1 and C2).

(Environment classifications according to SFS-EN ISO 12944-2 standard.)

Cable trunkings and socket poles

INSTAL cable trunkings and **INSTAL SP** socket poles are used in electrical installations where the design and appearance are an integral and important part of the interior.

Main applications are offices, public buildings, business locations, schools and hospitals.

INSTAL products are made of aluminium and painted white (RAL 9010) or grey (RAL 9006), or anodised, in which case they retain their natural metal tone. Products painted in other colours could be available on request.

Nearly all possible mounting boxes can be used in connection with the INSTAL trunkings and socket poles, which mean that the fixtures suitable for any given environment can be chosen freely.



CORROSION CLASSIFICATION

The choice of surface treatment are made according to factors effecting the product in the surrounding environment, as specified in the SFS-EN ISO 12944-2 standard.

Corrosivity category	Examples of typical environments in a temperate climate (informative only)		Surface treatment required
	Exterior	Interior	
C1 very low		Heated buildings with clean atmospheres, e.g. offices, shops, schools, hotels.	Hot galvanised sheet metal, or plastic coated sheet metal.
C2 low	Atmospheres with low level of pollution. Mostly rural areas.	Unheated buildings where condensation may occur, e.g. warehouses, sport halls.	Hot galvanised sheet metal, or plastic coated sheet metal.
C3 medium	Urban and industrial atmospheres, moderate sulphur dioxide pollution. Coastal areas with low salinity.	Production rooms with high humidity and some air pollution, e.g. food-processing plants, laundries, breweries, dairies.	Hot galvanisation after assembly.
C4 high	Industrial areas and coastal areas with moderate salinity.	Chemical plants, swimming pools, coastal ship- and boatyards.	Hot galvanisation after assembly.
C5-I very high (industrial)	Industrial areas with high humidity and harsh atmosphere.	Buildings or areas with almost permanent condensation and with high pollution.	Hot galvanisation and epoxy painting after assembly. Acid-proof steel. Surface treatment chosen case-by-case.
C5-M very high (marine)	Coastal and offshore areas with high salinity.	Buildings or areas with almost permanent condensation and with high pollution.	Hot galvanisation and epoxy painting after assembly. Acid-proof steel. Surface treatment chosen case-by-case.

Notes:

1. The loss values used for the corrosivity categories are identical to those given in ISO 9223.
2. In coastal areas in hot, humid zones, the mass or thickness losses can exceed the limits of category C5-M. Special precautions must therefore be taken when selecting protective paint systems for structures in such areas.

SURFACE TREATMENTS

Hot galvanised steel sheet

Sheet metal is hot galvanised on continuously moving production lines. The basic material is cold-rolled steel sheeting. After degreasing, the sheet is pickled and oxidised, after which surface oxides are removed by a reduction in temperature to 950°C, which also simultaneously softens the steel. The surface of the sheet is now purified metal and is transferred directly into a zinc bath. The sheet is then vertically driven out of the bath between air jets, to remove excess zinc from the surface of the sheet while the zinc goes back into the bath, leaving the desired coating. Computerised measurement systems are used to measure the thickness of the coating, while the operation of the air jets is also computerised. After cooling, straightening and white rust prevention treatment, the sheet is either delivered to the cutting press, rolled, or transferred to the plastic coating line.

MekaJohtotiet Oy produces KS20 and KS30 cable ladders, MEK lighting tracks, and KRA, KRB, KRC cable trays from hot galvanised sheet metal. These products include a coating thickness of approximately 20 µm of zinc. They are suitable for installation in dry environments, such as in offices, shops, hospitals, factories etc.

The hot galvanised steel sheet used by MekaJohtotiet Oy is galvanised according to the SFS-EN 10142 standard, which is equal to the ASTM A 653 standard, and the old SS 141151 and DIN 17162 standards.

Hot galvanising by immersion

Grease, oil, and soot are usually removed using an alkaline degreasing solution. After flushing with water rust and rolling scale are removed from the surfaces by pickling the steel in diluted hydrochloric acid or sulphuric acid. Prior to the sheet being immersed in molten zinc, it has to be treated with a fluidiser, to remove oxides from the surfaces of both the steel sheet and the bath in order to allow the steel and zinc to form a metallic bond between each other. After the fluidised bath treatment, the substrates are dried. A thin layer of fluidiser salt is left on the surfaces of the objects. After this, the object is immersed in the zinc, after which it is ready for final cleaning, inspection and loading. Mekajohtotiet Oy hot galvanises all cable ladders KS80, KSE80, KSF80 and their installation accessories using this method, according to the SFS-EN 1461 standard, which corresponds to the old SFS 2765 and DIN 50976 standards.

These products include a coating thickness of approximately 60 µm of zinc.

Duplex treatment

Hot galvanisation usually provides more than adequate protection against corrosion. In some cases however, additional protection may be needed if the environment is exceptionally corrosive. Duplex treatment gives the customer lasting protection against corrosion and in addition, the opportunity to choose a colour to go with the rest of the interior.

The zinc surface must be thoroughly cleaned before painting in order to ensure good adhesion, and an appropriate paint type must be used. After careful preparation, cable ladders and accessories are powder painted and finally hardened in an oven. MekaJohtotiet Oy's cable ladder system PEX is Duplex treated.



SURFACE TREATMENTS

In order to ensure better corrosion resistance and for better appearances, sheet metal is increasingly being coated with paint or special materials. Hot galvanised steel sheeting is the raw material, which is then plastic coated. On a continuously operating painting line, the sheet is first cleaned and the surface is pre-processed chemically. The passified surfaces are painted with primer and dried. The underside of the sheet is painted with protective paint, and the top with a colour paint surface.

MekaJohtotiet Oy uses polyester as the coating material, since it has good weather and corrosion resistance properties. In addition to this, polyester is easy to mould and durable. The painted cable trays KRA M, lighting tracks MEK M and cable conduits INSTEEL, are all MekaJohtotiet Oy products made out of plastic coated sheet metal.

USAGE OF CABLE TRAYS

KRA, KRB, KRC and KRV cable trays are used in electrical cable tray installations for office buildings, business locations, schools and public buildings in which the cable trays are an integral part of the interior.

Thanks to factory-made installation parts and easy to connect suspension parts, constructions which blend in with their surroundings can be built. Standard delivery lengths are 2 and 3 metres, while other lengths can also be delivered on short notice.

Cable trays are made from hot dip galvanised metal sheet and coil coated steels. The standard colour in coil coated cable trays is white (RAL 9010, NCS 0502-Y), while other colours are also available. Cable trays can be used in SFS-EN ISO 12944-2 standard stress classes C1 and C2.

TO BE TAKEN INTO CONSIDERATION

1. Cable ladders and cable trays are intended only for supporting cables.
2. As cable ladders and other conduit products are installed, the load carrying capacity of brackets is to be observed, and care should be taken to see that there is sufficient strength in the fixtures and surface materials.
3. Cable trays must not be used as ladders or walk-ways.
4. The manufacturer is not responsible for direct or indirect damages caused by inappropriate use of any of our products.



INSTALLATION INSTRUCTIONS

TECHNICAL REQUIREMENTS

Before using the cable trays, please read the following standards and regulations and the installation instructions in the product folder:

1. Standard SFS 3209 "Switchboard and telecommunications spaces, cable conduits" contains instructions for measuring the area needed for cable trays.
2. ST card ST 51.13 "Cable trays, ladders and track lighting".
3. ST card ST 841.05 "Layouts for cable trays"
4. ST cards ST 51.91 and ST 841.10 present the ways in which ducts are made.
5. ST card ST 13.51 presents the CAD graphic symbols of cable trays.

GENERAL INSTALLATION INSTRUCTIONS

Installation is performed in a way that deflection does not exceed 1/200 in visible cable trays and lighting tracks. In industrial and hidden cable trays and lighting tracks deflection must not exceed 1/100. An additional allowance of approx. 50% of the existing load must be included when calculating deflection.

Sufficient room for heat expansion must be left at the ends and between cable trays and lighting tracks. The heat expansion coefficient of steel is 0.000012 m/°C.

Cable trays and lighting tracks are fixed in a manner which does not allow them to slant or twist laterally.

The load bearing capacity of brackets and the strength of fixing and surface materials must be taken into consideration as cable trays and lighting tracks are installed.

In places where vertical trays are subject to physical damage, they should be protected up to a height of 1.5 m with a protective cover.

Ducts

When cable trays pass a fire-wall they must be cut. At borders of fire areas, the ducts must correspond to the fire endurance of the material being cut through. Different fire-proof cable ducts are presented in ST card 51.18.

The principles of sound insulation in connection with cable trays and lighting tracks passing through walls are presented in ST card 51.19.

Cables

Insulated cables are the most common cables used. External factors such as heat must be considered as cables are installed. Similarly, the effect of the strongest continuous current on the temperature of the cable must be taken into consideration. On a horizontal tray, cables are usually placed neatly straightened without fastening. On vertical and slanting trays, cables are fastened to the tray at appropriate distances with suitable fasteners.

Accessories

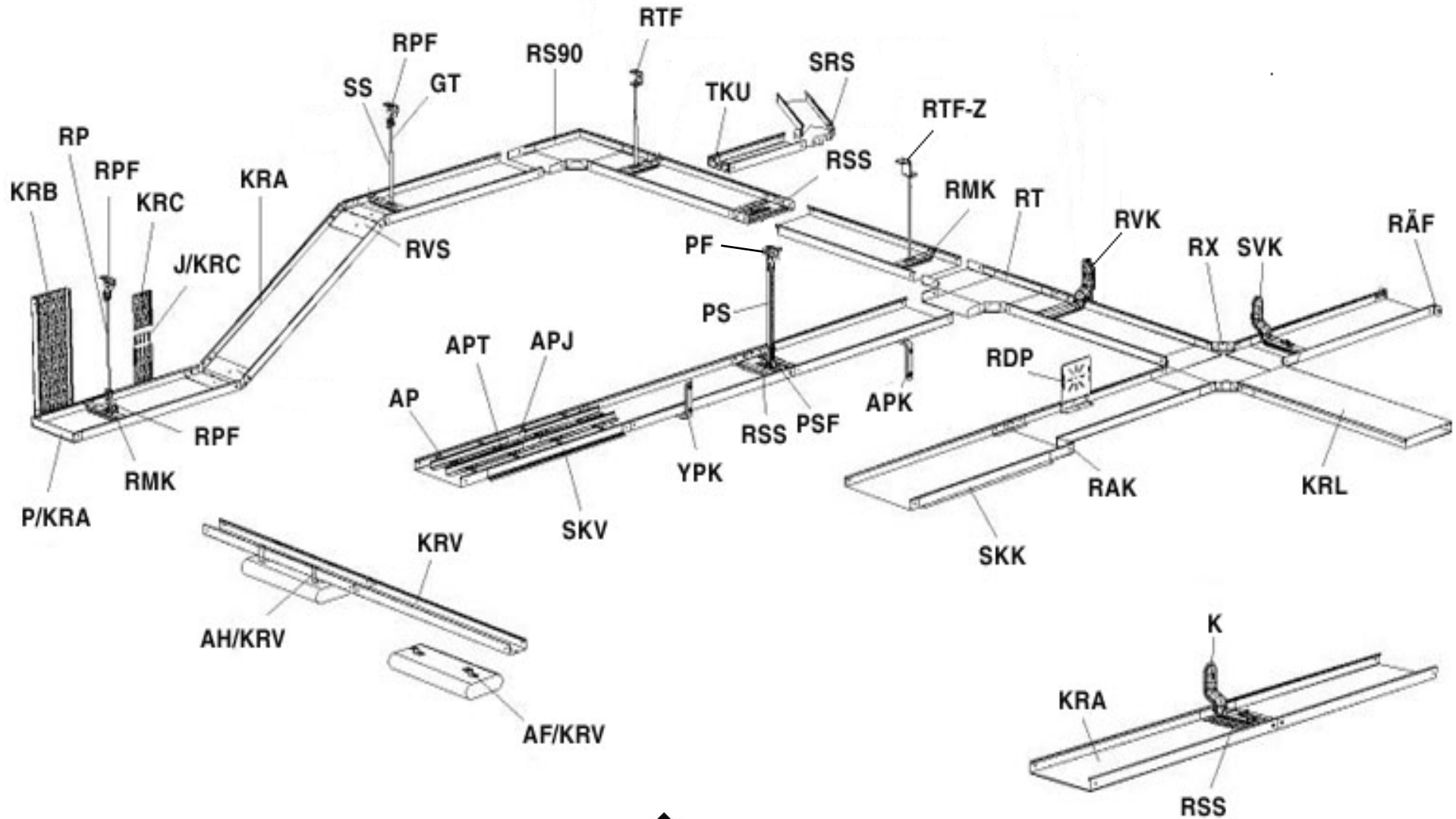
Accessories, such as branch boxes, which are installed on cable trays or lighting tracks are to be fastened firmly and in such a manner that they do not obstruct the actual cable space. Mountings, supports and other accessories are used when needed.

Electrical conductivity of cable ladders

All of MekaJohtotiet Oy cable ladders, cable trays and lighting tracks have been tested for electrical conductivity in Sweden at SP (Swedish National Testing and Research Institute). If you would like to obtain the test results, contact MekaJohtotiet Oy's technical support staff.

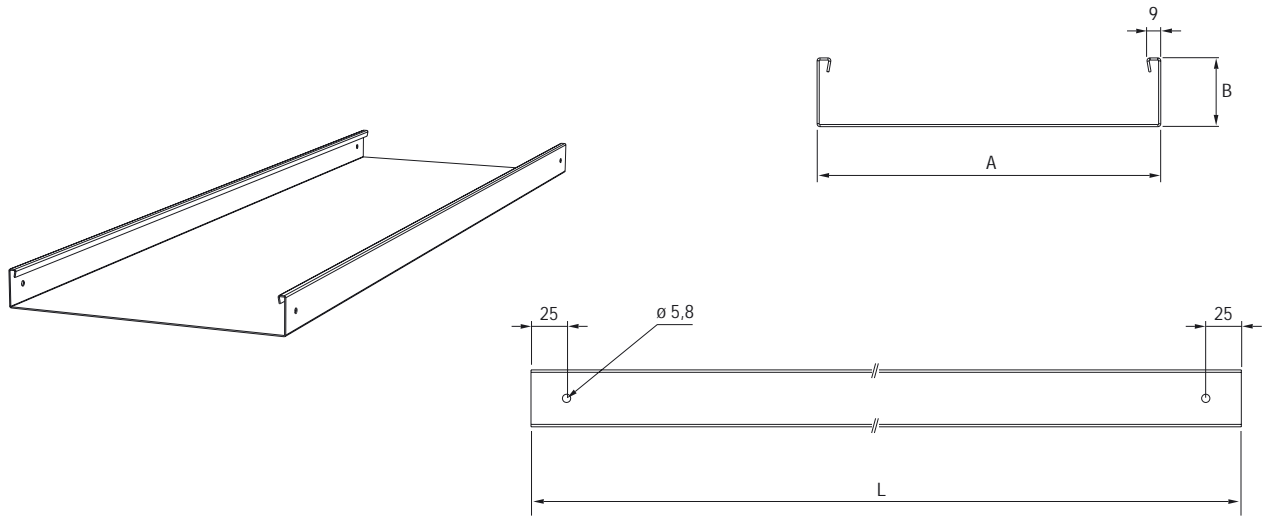


KRA KRB KRC KRV



CABLE TRAYS

Cable tray KRA



Product	SSTL number	Package m	Weight kg/100 m	A mm	B mm	L mm	Thickness mm
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Hot galvanised metal sheet, lenght 2 m

KRA-100	14 312 01	40	122	100	40	2000	0,75
KRA-200	14 312 02	40	182	200	40	2000	0,75
KRA-300	14 312 03	40	323	300	40	2000	1,00
KRA-400	14 312 04	20	504	400	40	2000	1,25
KRA-500	14 312 05	20	604	500	40	2000	1,25
KRA-600	14 312 06	20	704	600	40	2000	1,25

Hot galvanised metal sheet, lenght 3 m

KRA-100	14 312 11	60	122	100	40	3000	0,75
KRA-200	14 312 12	60	182	200	40	3000	0,75
KRA-300	14 312 13	60	323	300	40	3000	1,00
KRA-400	14 312 14	30	504	400	40	3000	1,25
KRA-500	14 312 15	30	604	500	40	3000	1,25
KRA-600	14 312 16	30	704	600	40	3000	1,25

Hot galvanised and painted metal sheet, lenght 2 m

KRA-100M	14 312 21	40	122	100	40	2000	0,75
KRA-200M	14 312 22	40	182	200	40	2000	0,75
KRA-300M	14 312 23	40	323	300	40	2000	1,00
KRA-400M	14 312 24	20	504	400	40	2000	1,25
KRA-500M	14 312 25	20	604	500	40	2000	1,25
KRA-600M	14 312 26	20	704	600	40	2000	1,25

Hot galvanised and painted metal sheet, lenght 3 m

KRA-100M	14 312 31	60	122	100	40	3000	0,75
KRA-200M	14 312 32	60	182	200	40	3000	0,75
KRA-300M	14 312 33	60	323	300	40	3000	1,00
KRA-400M	14 312 34	30	504	400	40	3000	1,25
KRA-500M	14 312 35	30	604	500	40	3000	1,25
KRA-600M	14 312 36	30	704	600	40	3000	1,25

CABLE TRAYS

Product	SSTL number	Package m	Weight kg/100 m	A mm	B mm	L mm	Thickness mm
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Hot galvanised metal sheet, length 3 m

KRA-100-60	14 320 01	36	146	100	60	3000	0,75
KRA-200-60	14 320 02	36	206	200	60	3000	0,75
KRA-300-60	14 320 03	36	355	300	60	3000	1,00
KRA-400-60	14 320 04	18	544	400	60	3000	1,25
KRA-500-60	14 320 05	18	644	500	60	3000	1,25
KRA-600-60	14 320 06	18	744	600	60	3000	1,25

Hot galvanised metal sheet, length 3 m

KRA-300-60 S	14 320 13	36	146	300	60	3000	0,75
KRA-400-60 S	14 320 14	18	206	400	60	3000	1,00
KRA-500-60 S	14 320 15	18	355	500	60	3000	1,00

Hot galvanised and painted metal sheet, length 3 m

KRA-100-60M	14 320 21	36	146	100	60	3000	0,75
KRA-200-60M	14 320 22	36	206	200	60	3000	0,75
KRA-300-60M	14 320 23	36	355	300	60	3000	1,00
KRA-400-60M	14 320 24	18	544	400	60	3000	1,25
KRA-500-60M	14 320 25	18	644	500	60	3000	1,25
KRA-600-60M	14 320 26	18	744	600	60	3000	1,25

Hot galvanised and painted metal sheet, length 3 m

KRA-300-60M S	14 320 33	36	146	300	60	3000	0,75
KRA-400-60M S	14 320 34	18	206	400	60	3000	1,00
KRA-500-60M S	14 320 35	18	355	500	60	3000	1,00

Hot galvanised metal sheet, length 3 m

KRA-100-80	14 320 41	24	170	100	80	3000	0,75
KRA-200-80	14 320 42	24	230	200	80	3000	0,75
KRA-300-80	14 320 43	30	387	300	80	3000	1,00
KRA-400-80	14 320 44	12	584	400	80	3000	1,25
KRA-500-80	14 320 45	12	684	500	80	3000	1,25
KRA-600-80	14 320 46	12	784	600	80	3000	1,25

Hot galvanised and painted metal sheet, length 3 m

KRA-100-80M	14 320 51	24	170	100	80	3000	0,75
KRA-200-80M	14 320 52	24	230	200	80	3000	0,75
KRA-300-80M	14 320 53	30	387	300	80	3000	1,00
KRA-400-80M	14 320 54	12	584	400	80	3000	1,25
KRA-500-80M	14 320 55	12	684	500	80	3000	1,25
KRA-600-80M	14 320 56	12	784	600	80	3000	1,25

Hot galvanised metal sheet, length 3 m

KRA-100-110	14 320 61	24	206	100	110	3000	0,75
KRA-200-110	14 320 62	24	266	200	110	3000	0,75
KRA-300-110	14 320 63	30	435	300	110	3000	1,00
KRA-400-110	14 320 64	12	644	400	110	3000	1,25

Hot galvanised and painted metal sheet, length 3 m

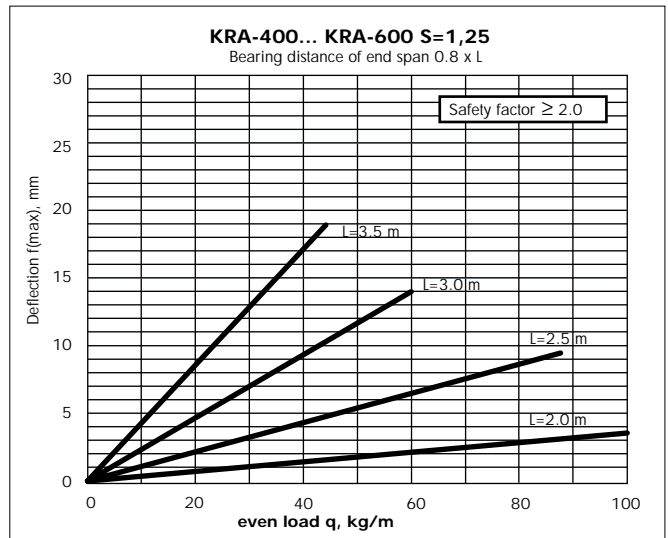
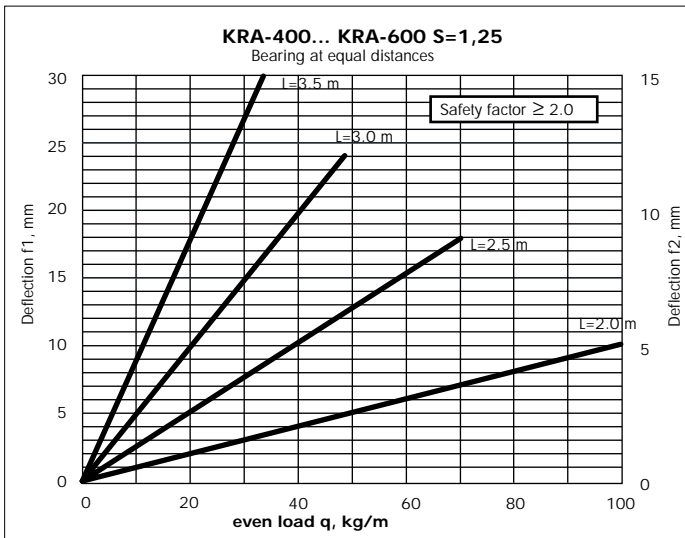
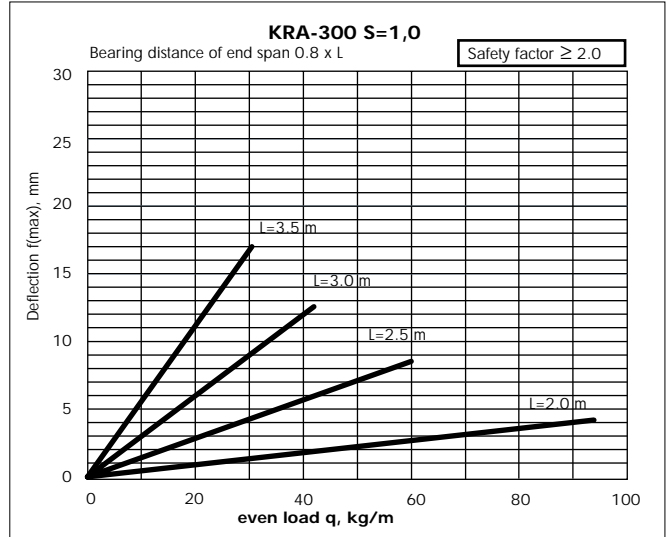
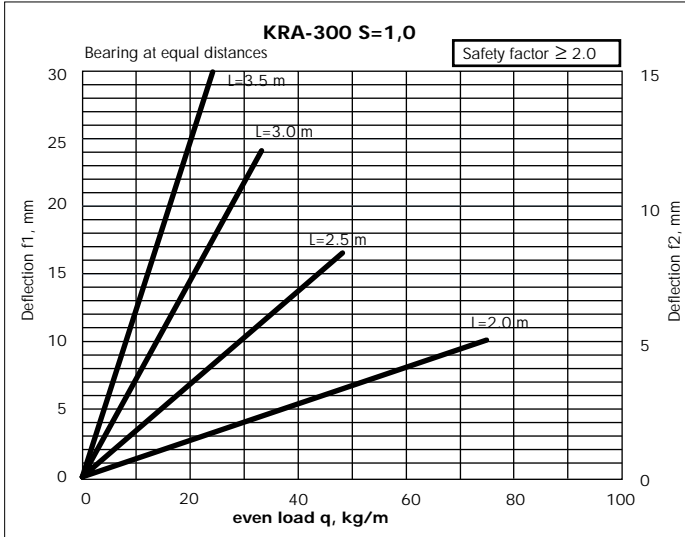
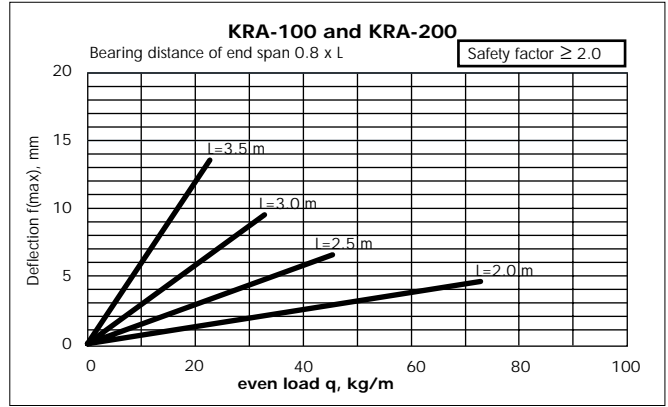
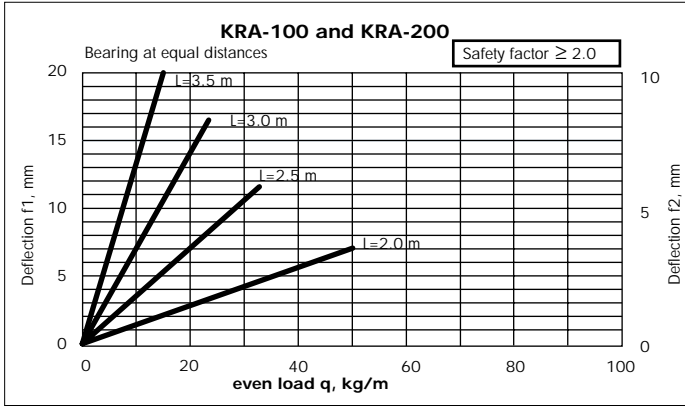
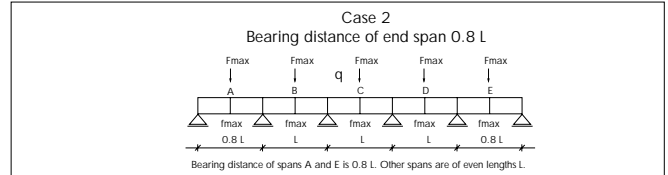
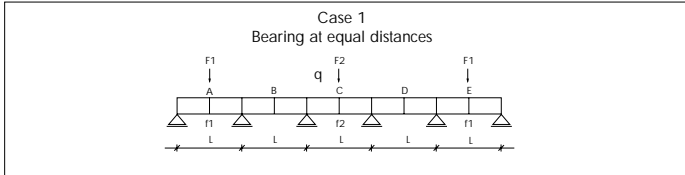
KRA-100-110M	14 320 71	24	206	100	110	3000	0,75
KRA-200-110M	14 320 72	24	266	200	110	3000	0,75
KRA-300-110M	14 320 73	30	435	300	110	3000	1,00
KRA-400-110M	14 320 74	12	644	400	110	3000	1,25

KRA cable trays are made of hot galvanised metal sheet and KRA M hot galvanised and painted metal sheet. Their standard colours are white (RAL 9010, NCS 0502-Y) and zinc. Other colours can also be delivered. Standard delivery lengths are 2 and 3 meters.

We can also deliver other lengths between 600 and 3000 mm on short notice. The cable trays are made with holes at the sides enabling the fixing of extension parts.

CABLE TRAYS

Load curves



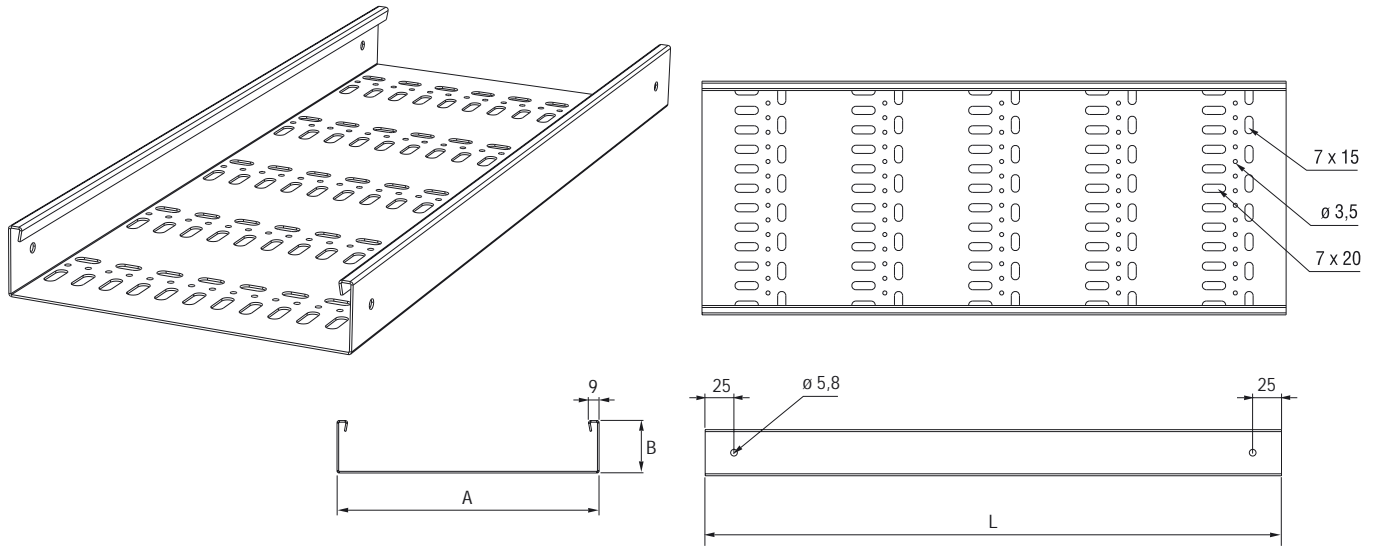
Explanation of the sheet shelf load curves

A five-span load-bearing beam is illustrated above (Case 1), in which the deflection f_1 is measured in spans A and E. In long installations, the deflection is demonstrated by f_2 . If the end of the ladder is securely fastened to the wall then, where the ladder begins, deflection f_2 is used. If there is no end attachment, and if the load is at equal distances, the deflection of spans A and E can be measured at f_1 , and the deflection of other spans, at f_2 . If the end of the ladder is not attached to the wall, and the deflection is to be decreased (Case 2), the bearing distance for spans A and E must

be reduced by 20%, ie. $0.8 \times L$ (L = bearing load at equal distances), in which case the load corresponds to the load in Case 2. The maximum deflection in each support span in Case 2 is demonstrated in Table 2. Deflection is also influenced by the type of the extensions which are used and by the method used to support the extensions. The value at the end of each load curve represents the maximum permitted load (safety factor ≥ 2), which must not be exceeded.

CABLE TRAYS

Cable tray KRB



Product	SSTL number	Package m	Weight kg/100 m	A mm	B mm	L mm	Thickness mm
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Hot galvanised metal sheet, length 2 m

KRB-100	14 312 41	40	107	100	40	2000	0,75
KRB-200	14 312 42	40	152	200	40	2000	0,75
KRB-300	14 312 43	40	263	300	40	2000	1,00
KRB-400	14 312 44	20	404	400	40	2000	1,25
KRB-500	14 312 45	20	479	500	40	2000	1,25
KRB-600	14 312 46	20	554	600	40	2000	1,25

Hot galvanised metal sheet, length 3 m

KRB-100	14 312 51	60	107	100	40	3000	0,75
KRB-200	14 312 52	60	152	200	40	3000	0,75
KRB-300	14 312 53	60	263	300	40	3000	1,00
KRB-400	14 312 54	30	404	400	40	3000	1,25
KRB-500	14 312 55	30	479	500	40	3000	1,25
KRB-600	14 312 56	30	554	600	40	3000	1,25

Hot galvanised and painted metal sheet, length 2 m

KRB-100M	14 312 61	40	107	100	40	2000	0,75
KRB-200M	14 312 62	40	152	200	40	2000	0,75
KRB-300M	14 312 63	40	263	300	40	2000	1,00
KRB-400M	14 312 64	20	404	400	40	2000	1,25
KRB-500M	14 312 65	20	479	500	40	2000	1,25
KRB-600M	14 312 66	20	554	600	40	2000	1,25

Hot galvanised and painted metal sheet, length 3 m

KRB-100M	14 312 71	60	107	100	40	3000	0,75
KRB-200M	14 312 72	60	152	200	40	3000	0,75
KRB-300M	14 312 73	60	263	300	40	3000	1,00
KRB-400M	14 312 74	30	404	400	40	3000	1,25
KRB-500M	14 312 75	30	479	500	40	3000	1,25
KRB-600M	14 312 76	30	554	600	40	3000	1,25

CABLE TRAYS

Product	SSTL number	Package m	Weight kg/100 m	A mm	B mm	L mm	Thickness mm
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Hot galvanised metal sheet, length 3 m

KRB-100-60	14 320 81	36	131	100	60	3000	0,75
KRB-200-60	14 320 82	36	176	200	60	3000	0,75
KRB-300-60	14 320 83	36	295	300	60	3000	1,00
KRB-400-60	14 320 84	18	444	400	60	3000	1,25
KRB-500-60	14 320 85	18	519	500	60	3000	1,25
KRB-600-60	14 320 86	18	594	600	60	3000	1,25

Hot galvanised metal sheet, length 3 m

KRB-300-60 S	14 320 93	36	131	300	60	3000	0,75
KRB-400-60 S	14 320 94	18	176	400	60	3000	1,00
KRB-500-60 S	14 320 95	18	295	500	60	3000	1,00

Hot galvanised and painted metal sheet, length 3 m

KRB-100-60M	14 321 01	36	131	100	60	3000	0,75
KRB-200-60M	14 321 02	36	176	200	60	3000	0,75
KRB-300-60M	14 321 03	36	295	300	60	3000	1,00
KRB-400-60M	14 321 04	18	444	400	60	3000	1,25
KRB-500-60M	14 321 05	18	519	500	60	3000	1,25
KRB-600-60M	14 321 06	18	594	600	60	3000	1,25

Hot galvanised and painted metal sheet, length 3 m

KRB-300-60M S	14 321 13	36	131	300	60	3000	0,75
KRB-400-60M S	14 321 14	18	176	400	60	3000	1,00
KRB-500-60M S	14 321 15	18	295	500	60	3000	1,00

Hot galvanised metal sheet, length 3 m

KRB-100-80	14 321 21	24	155	100	80	3000	0,75
KRB-200-80	14 321 22	24	200	200	80	3000	0,75
KRB-300-80	14 321 23	30	327	300	80	3000	1,00
KRB-400-80	14 321 24	12	484	400	80	3000	1,25
KRB-500-80	14 321 25	12	559	500	80	3000	1,25
KRB-600-80	14 321 26	12	634	600	80	3000	1,25

Hot galvanised and painted metal sheet, length 3 m

KRB-100-80M	14 321 31	24	155	100	80	3000	0,75
KRB-200-80M	14 321 32	24	200	200	80	3000	0,75
KRB-300-80M	14 321 33	30	327	300	80	3000	1,00
KRB-400-80M	14 321 34	12	484	400	80	3000	1,25
KRB-500-80M	14 321 35	12	559	500	80	3000	1,25
KRB-600-80M	14 321 36	12	634	600	80	3000	1,25

Hot galvanised metal sheet, length 3 m

KRB-100-110	14 321 41	24	191	100	110	3000	0,75
KRB-200-110	14 321 42	24	236	200	110	3000	0,75
KRB-300-110	14 321 43	30	375	300	110	3000	1,00
KRB-400-110	14 321 44	12	516	400	110	3000	1,25

Hot galvanised and painted metal sheet, length 3 m

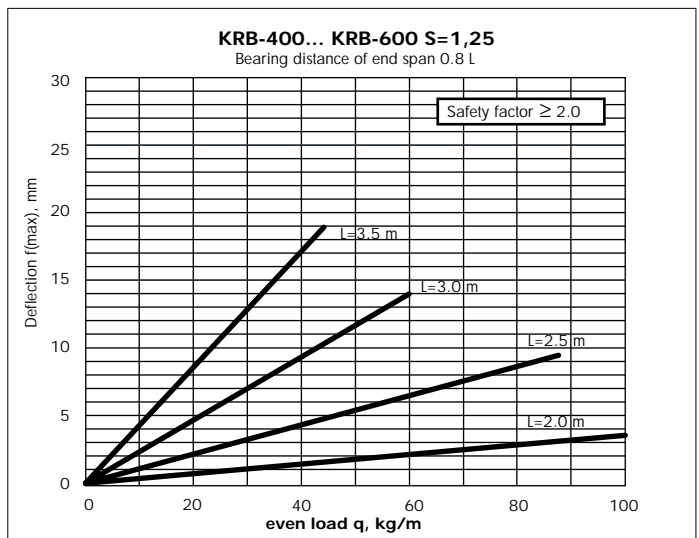
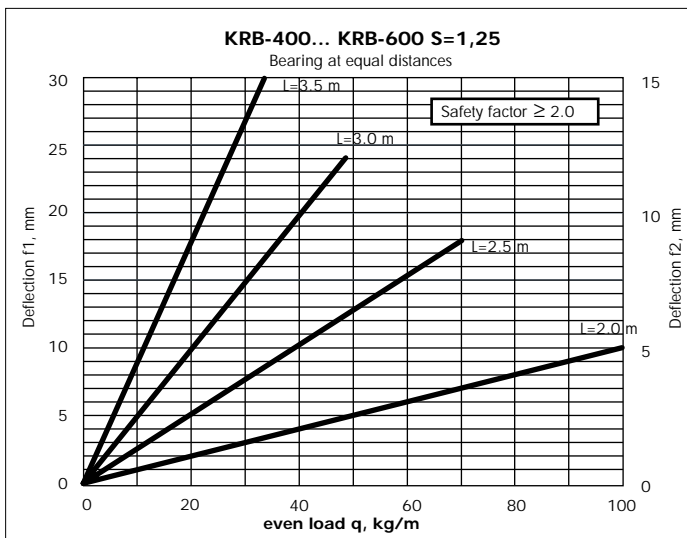
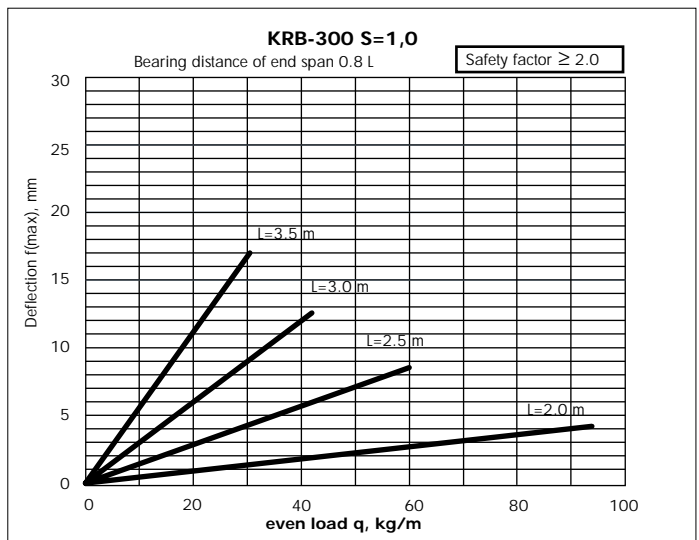
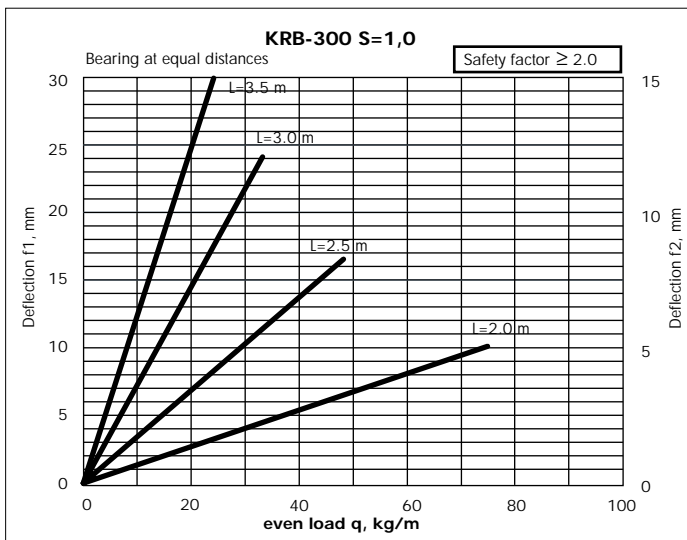
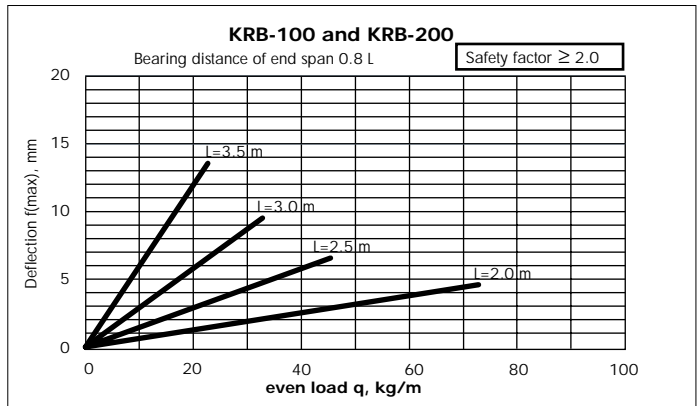
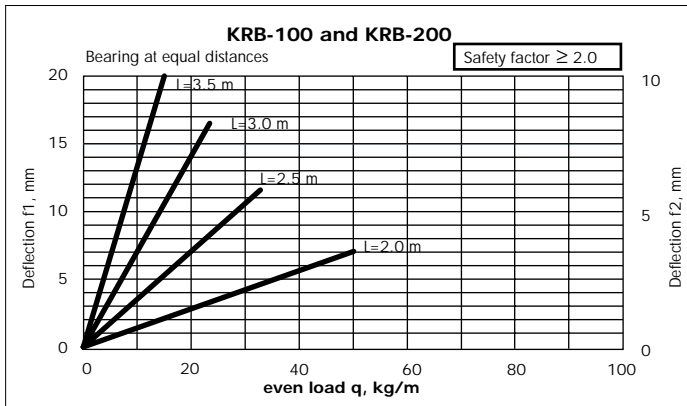
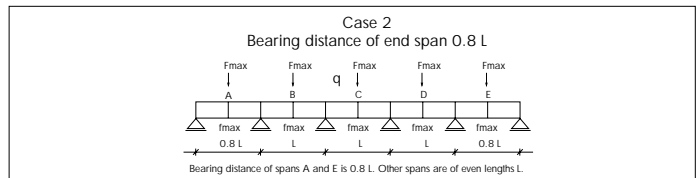
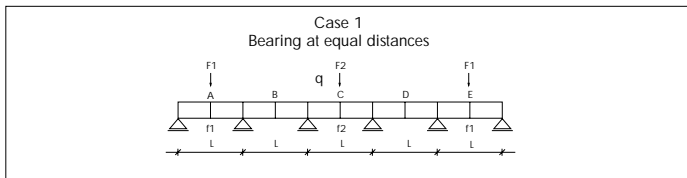
KRB-100-110M	14 321 51	24	191	100	110	3000	0,75
KRB-200-110M	14 321 52	24	236	200	110	3000	0,75
KRB-300-110M	14 321 53	30	375	300	110	3000	1,00
KRB-400-110M	14 321 54	12	516	400	110	3000	1,25

KRB cable trays are made of hot galvanised metal sheet and KRB M hot galvanised and painted metal sheet. Standard colours are white (RAL 9010, NCS 0502-Y) and zinc. Other colours can also be delivered. Standard delivery lengths are 2 and 3 meters. 25% of

the bottom of a KRB cable tray is perforated. We can also deliver other lengths and perforations between 600 and 3000 mm on short notice. The cable trays are made with holes at the sides enabling the fixing of extension parts.

CABLE TRAYS

Load curves



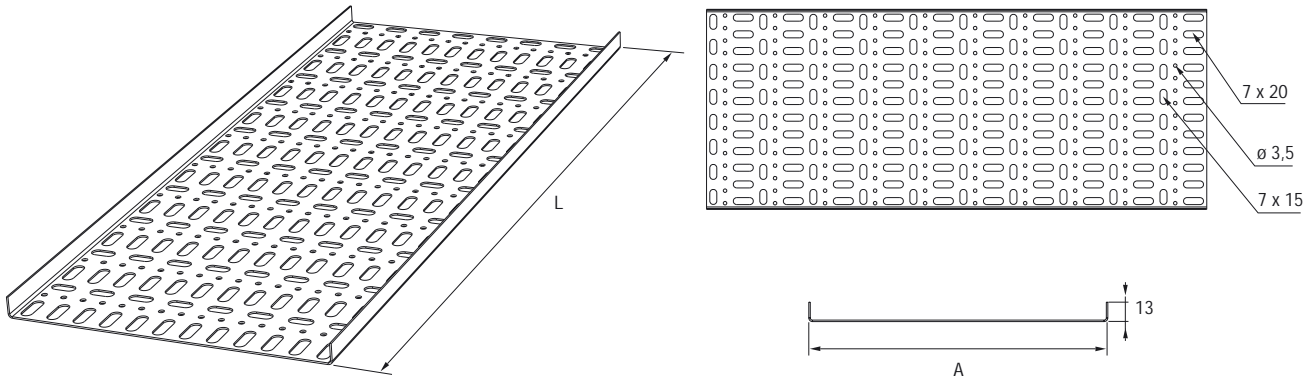
Explanation of the sheet shelf load curves

There is a five-span load-bearing beam illustrated above the curve graph (Case 1), in which deflection f_1 is measured in spans A and E. In long installations, the deflection is as it is in f_2 . If the end of the shelf is securely fixed to the wall where the shelf begins, deflection f_2 is used. If there is no end attachment, and if bearing is at equal distances, the deflection of spans A and E can be measured from f_1 , and the deflection of other spans from point f_2 . If the end of the shelf is not attached to the wall, and the deflection is to be decreased (Case 2), the bearing distance for

spans A and E must be reduced by 20%, i.e. $0.8 \times L$ (L = bearing at equal distances), in which case the load corresponds with the load in Case 2. The maximum deflection in each support span in Case 2 can be seen in Table 2. Deflection is also influenced by the quality of the extensions which are used and by the method used to support the extensions. The figure at the end of each load curve represents the maximum permitted load (safety factor ≥ 2), which must not be exceeded.

CABLE TRAYS

Cable tray KRC



Product	SSTL number	Package m	Weight kg/100 m	A mm	L mm	Thickness mm
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Hot galvanised metal sheet, length 2 m

KRC-50	14 312 80	20	48	50	2000	1,00
KRC-100	14 312 81	20	78	100	2000	1,00
KRC-150	14 312 82	20	108	150	2000	1,00
KRC-200	14 312 83	20	172	200	2000	1,25
KRC-250	14 312 84	20	210	250	2000	1,25
KRC-300	14 312 85	20	247	300	2000	1,25
KRC-400	14 312 86	20	322	400	2000	1,25

Hot galvanised and painted metal sheet, length 2 m

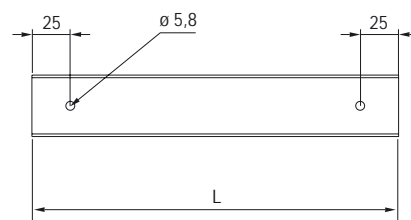
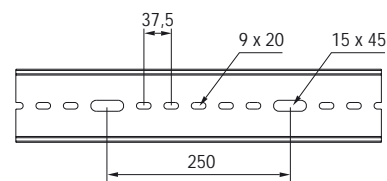
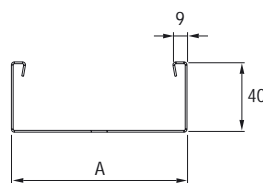
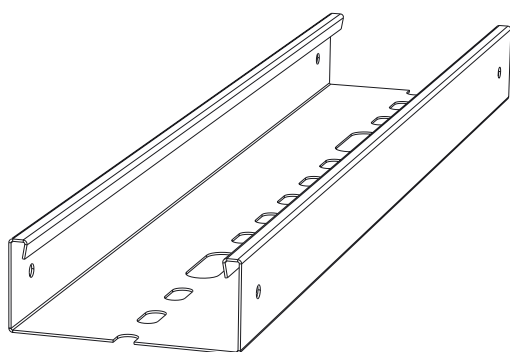
KRC-50M	14 312 90	20	48	50	2000	1,00
KRC-100M	14 312 91	20	78	100	2000	1,00
KRC-150M	14 312 92	20	108	150	2000	1,00
KRC-200M	14 312 93	20	172	200	2000	1,25
KRC-250M	14 312 94	20	210	250	2000	1,25
KRC-300M	14 312 95	20	247	300	2000	1,25
KRC-400M	14 312 96	20	322	400	2000	1,25

KRC cable trays are made of hot galvanised or hot galvanised and painted metal sheet. Standard colours are white (RAL 9010, NCS 0502-Y) and zinc. Other colors can also be delivered. Standard delivery length is 2 meters. 25% of the bottom of a standard shelf is

performed. Cable brackets can be fixed to the shelf with sheet metal screws through 3.5 mm holes. We can also deliver other lengths and perforations between 600 and 3000 mm on short notice.

CABLE TRAYS

Lighting track KRV



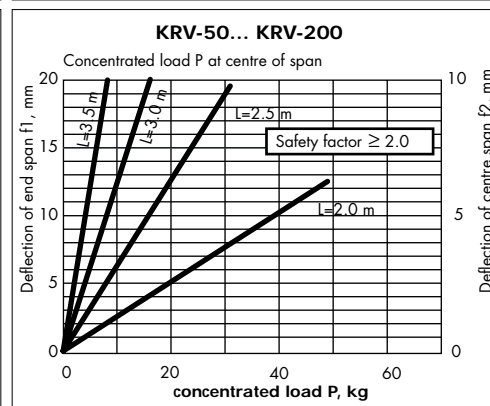
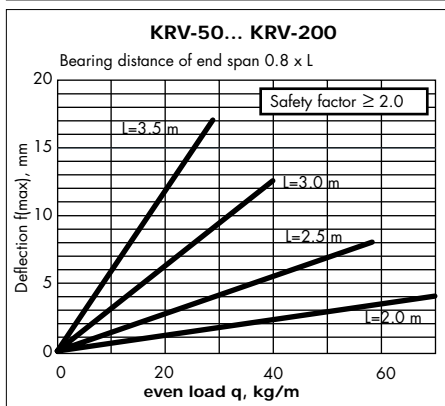
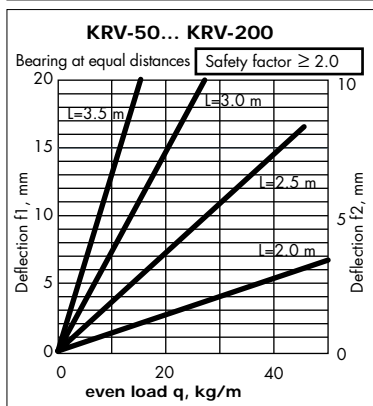
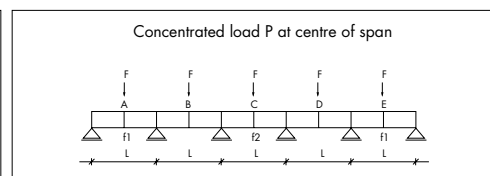
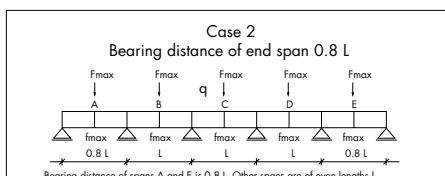
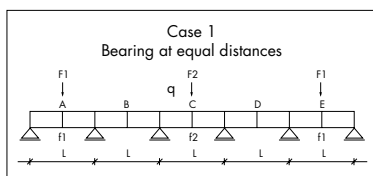
Product	SSTL number	Package m	Weight kg/100 m	A mm	L mm	Thickness mm
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KRV-50	14 313 00	108	119	50	3000	1,00
KRV-100	14 313 01	60	159	100	3000	1,00
KRV-200	14 313 02	60	239	200	3000	1,00

KRV-50M	14 313 04	108	119	50	3000	1,00
KRV-100M	14 313 05	60	159	100	3000	1,00
KRV-200M	14 313 06	60	239	200	3000	1,00

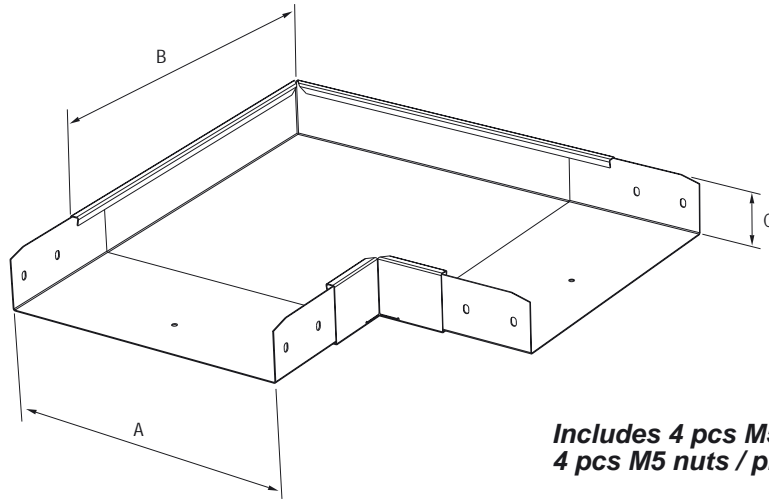
KRV lighting tracks are made of hot galvanised metal sheet and KRV M hot galvanised and painted metal sheet. Standard delivery length is 3 meters. We also deliver other lengths and perforations between 600 and 3000 mm on short notice. Electric

cables for lighting fixtures are easily installed thanks to the dense perforation. Standard colours are white (RAL 9010, NCS 0502-Y). Other colours can also be delivered.



ANGLE PIECES, T - PIECES, X - PIECES

Angle piece RS90



Includes 4 pcs M5 x 8 bolts and 4 pcs M5 nuts / product.

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm	C mm
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Hot galvanised metal sheet

RS90-100	14 313 11	2	40	98	173	40
RS90-200	14 313 12	2	140	198	273	40
RS90-300	14 313 13	2	230	297	373	40
RS90-400	14 313 14	2	330	397	473	40
RS90-500	14 313 15	2	450	497	573	40
RS90-600	14 313 16	2	550	597	673	40

Hot galvanised and painted metal sheet

RS90-100M	14 313 21	2	40	98	173	40
RS90-200M	14 313 22	2	140	198	273	40
RS90-300M	14 313 23	2	230	297	373	40
RS90-400M	14 313 24	2	330	397	473	40
RS90-500M	14 313 25	2	450	497	573	40
RS90-600M	14 313 26	2	550	597	673	40

Hot galvanised metal sheet

RS90-100-60	14 321 61	2	49	98	173	60
RS90-200-60	14 321 62	2	152	198	273	60
RS90-300-60	14 321 63	2	254	297	373	60
RS90-400-60	14 321 64	2	348	397	473	60
RS90-500-60	14 321 65	2	471	497	573	60
RS90-600-60	14 321 66	2	575	597	673	60

Hot galvanised and painted metal sheet

RS90-100-60M	14 321 71	2	49	98	173	60
RS90-200-60M	14 321 72	2	152	198	273	60
RS90-300-60M	14 321 73	2	254	297	373	60
RS90-400-60M	14 321 74	2	348	397	473	60
RS90-500-60M	14 321 75	2	471	497	573	60
RS90-600-60M	14 321 76	2	575	597	673	60

ANGLE PIECES, T - PIECES, X - PIECES

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm	C mm
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Hot galvanised metal sheet

RS90-100-80	14 321 81	2	57	98	173	80
RS90-200-80	14 321 82	2	163	198	273	80
RS90-300-80	14 321 83	2	254	297	373	80
RS90-400-80	14 321 84	2	360	397	473	80
RS90-500-80	14 321 85	2	487	497	573	80
RS90-600-80	14 321 86	2	593	597	673	80

Hot galvanised and painted metal sheet

RS90-100-80M	14 321 91	2	57	98	173	80
RS90-200-80M	14 321 92	2	163	198	273	80
RS90-300-80M	14 321 93	2	254	297	373	80
RS90-400-80M	14 321 94	2	360	397	473	80
RS90-500-80M	14 321 95	2	487	497	573	80
RS90-600-80M	14 321 96	2	593	597	673	80

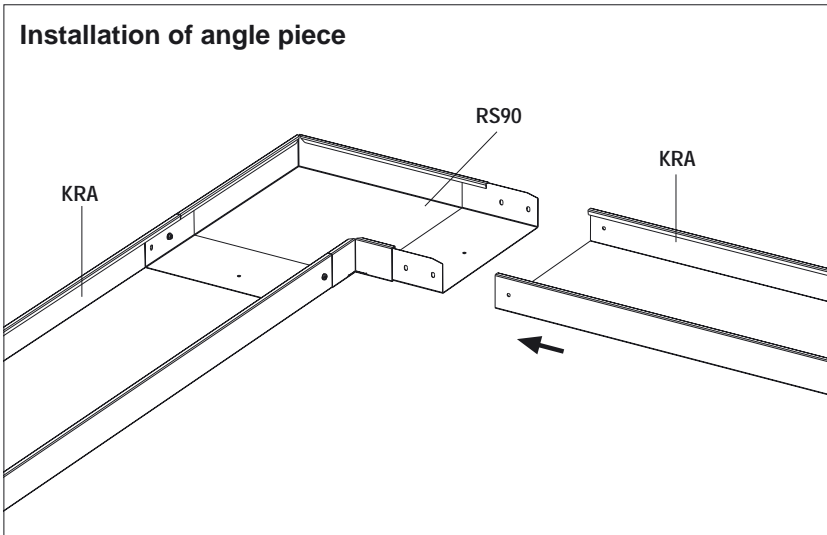
Hot galvanised metal sheet

RS90-100-110	14 322 01	2	71	98	173	110
RS90-200-110	14 322 02	2	181	198	273	110
RS90-300-110	14 322 03	2	272	297	373	110
RS90-400-110	14 322 04	2	383	397	473	110

Hot galvanised and painted metal sheet

RS90-100-110M	14 322 11	2	71	98	173	110
RS90-200-110M	14 322 12	2	181	198	273	110
RS90-300-110M	14 322 13	2	272	297	373	110
RS90-400-110M	14 322 14	2	383	397	473	110

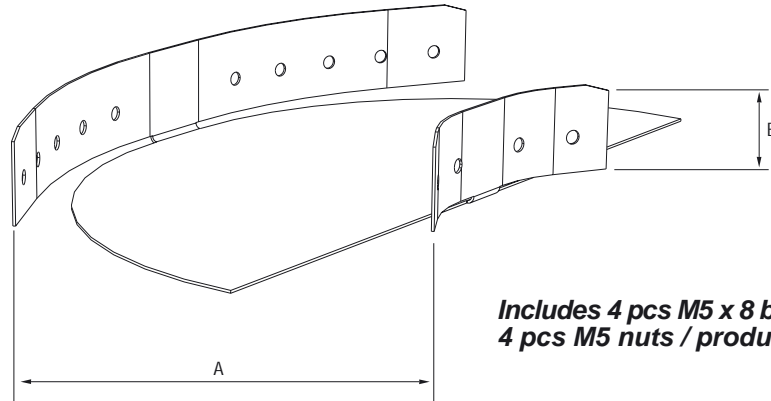
Installation example



The connecting part of angle piece RS90 is pushed into cable trays and locked from the sides with the bolt sets provided.

ANGLE PIECES, T - PIECES, X - PIECES

Adjustable angle piece SRS



*Includes 4 pcs M5 x 8 bolts and
4 pcs M5 nuts / product*

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm
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Hot galvanised metal sheet

SRS-100	14 313 31	2	30	98	40
SRS-200	14 313 32	2	60	198	40
SRS-300	14 313 33	2	120	297	40
SRS-400	14 313 34	2	210	397	40
SRS-500	14 313 35	2	320	497	40
SRS-600	14 313 36	2	430	597	40

Hot galvanised and painted metal sheet

SRS-100M	14 313 41	2	30	98	40
SRS-200M	14 313 42	2	60	198	40
SRS-300M	14 313 43	2	120	297	40
SRS-400M	14 313 44	2	210	397	40
SRS-500M	14 313 45	2	320	497	40
SRS-600M	14 313 46	2	430	597	40

Hot galvanised metal sheet

SRS-100-60	14 313 31	2	35	98	60
SRS-200-60	14 313 32	2	68	198	60
SRS-300-60	14 313 33	2	132	297	60
SRS-400-60	14 313 34	2	225	397	60
SRS-500-60	14 313 35	2	358	497	60
SRS-600-60	14 313 36	2	450	597	60

Hot galvanised and painted metal sheet

SRS-100-60M	14 313 41	2	35	98	60
SRS-200-60M	14 313 42	2	68	198	60
SRS-300-60M	14 313 43	2	132	297	60
SRS-400-60M	14 313 44	2	225	397	60
SRS-500-60M	14 313 45	2	358	497	60
SRS-600-60M	14 313 46	2	450	597	60

ANGLE PIECES, T - PIECES, X - PIECES

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm
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Hot galvanised metal sheet

SRS-100-80	14 322 41	2	40	98	80
SRS-200-80	14 322 42	2	77	198	80
SRS-300-80	14 322 43	2	143	297	80
SRS-400-80	14 322 44	2	240	397	80
SRS-500-80	14 322 45	2	356	497	80
SRS-600-80	14 322 46	2	472	597	80

Hot galvanised and painted metal sheet

SRS-100-80M	14 322 51	2	40	98	80
SRS-200-80M	14 322 52	2	77	198	80
SRS-300-80M	14 322 53	2	143	297	80
SRS-400-80M	14 322 54	2	240	397	80
SRS-500-80M	14 322 55	2	356	497	80
SRS-600-80M	14 322 56	2	472	597	80

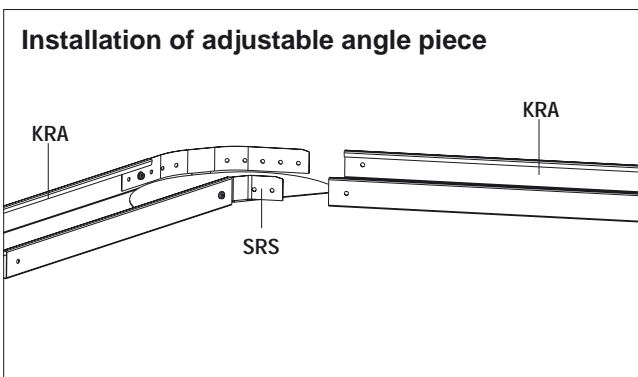
Hot galvanised metal sheet

SRS-100-110	14 322 61	2	48	98	110
SRS-200-110	14 322 62	2	89	198	110
SRS-300-110	14 322 63	2	161	297	110
SRS-400-110	14 322 64	2	261	397	110

Hot galvanised and painted metal sheet

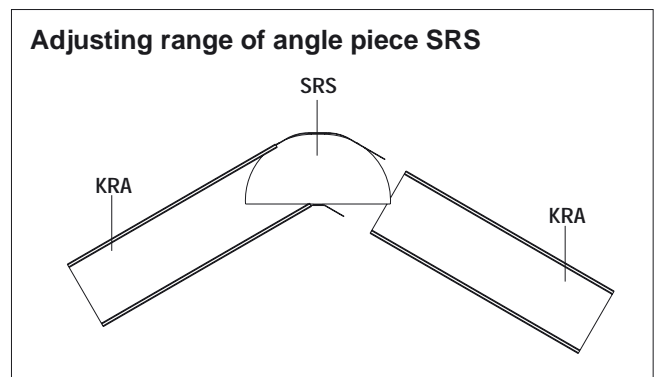
SRS-100-110M	14 322 71	2	48	98	110
SRS-200-110M	14 322 72	2	89	198	110
SRS-300-110M	14 322 73	2	161	297	110
SRS-400-110M	14 322 74	2	261	397	110

Installation example



Adjustable angle piece SRS

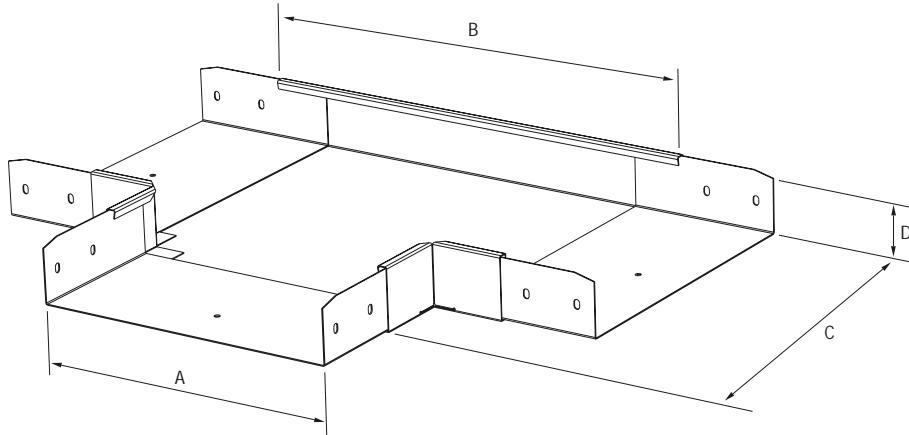
1. Push adjustable angle piece SRS into first cable tray.
2. Fix inside edge of angle piece onto cable tray.
3. Push second cable tray into angle piece.
4. Adjust angle, and fix inside edge of angle piece onto second cable tray.
5. Fix outer edges of angle piece onto cable trays.



Adjusting range of adjustable angle piece SRS is 90° - 180°.

ANGLE PIECES, T - PIECES, X - PIECES

T piece RT



**Includes 6 pcs. M5 x 8 bolts and
6 pcs. M5 nuts / product**

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm	C mm	D mm
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Hot galvanised metal sheet

RT-100	14 313 51	2	80	98	246	173	40
RT-200	14 313 52	2	190	198	346	273	40
RT-300	14 313 53	2	290	297	446	373	40
RT-400	14 313 54	2	400	397	546	473	40
RT-500	14 313 55	2	530	497	646	573	40
RT-600	14 313 56	2	650	597	746	673	40

Hot galvanised and painted metal sheet

RT-100M	14 313 61	2	80	98	246	173	40
RT-200M	14 313 62	2	190	198	346	273	40
RT-300M	14 313 63	2	290	297	446	373	40
RT-400M	14 313 64	2	400	397	546	473	40
RT-500M	14 313 65	2	530	497	646	573	40
RT-600M	14 313 66	2	650	597	746	673	40

Hot galvanised metal sheet

RT-100-60	14 322 81	2	92	98	246	173	60
RT-200-60	14 322 82	2	203	198	346	273	60
RT-300-60	14 322 83	2	305	297	446	373	60
RT-400-60	14 322 84	2	417	397	546	473	60
RT-500-60	14 322 85	2	548	497	646	573	60
RT-600-60	14 322 86	2	670	597	746	673	60

Hot galvanised and painted metal sheet

RT-100-60M	14 322 91	2	92	98	246	173	60
RT-200-60M	14 322 92	2	203	198	346	273	60
RT-300-60M	14 322 93	2	305	297	446	373	60
RT-400-60M	14 322 94	2	417	397	546	473	60
RT-500-60M	14 322 95	2	548	497	646	573	60
RT-600-60M	14 322 96	2	670	597	746	673	60

ANGLE PIECES, T - PIECES, X - PIECES

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm	C mm	D mm
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Hot galvanised metal sheet

RT-100-80	14 323 01	2	104	98	246	173	80
RT-200-80	14 323 02	2	217	198	346	273	80
RT-300-80	14 323 03	2	320	297	446	373	80
RT-400-80	14 323 04	2	433	397	546	473	80
RT-500-80	14 323 05	2	567	497	646	573	80
RT-600-80	14 323 06	2	690	597	746	673	80

Hot galvanised and painted metal sheet

RT-100-80M	14 323 11	2	104	98	246	173	80
RT-200-80M	14 323 12	2	217	198	346	273	80
RT-300-80M	14 323 13	2	320	297	446	373	80
RT-400-80M	14 323 14	2	433	397	546	473	80
RT-500-80M	14 323 15	2	567	497	646	573	80
RT-600-80M	14 323 16	2	690	597	746	673	80

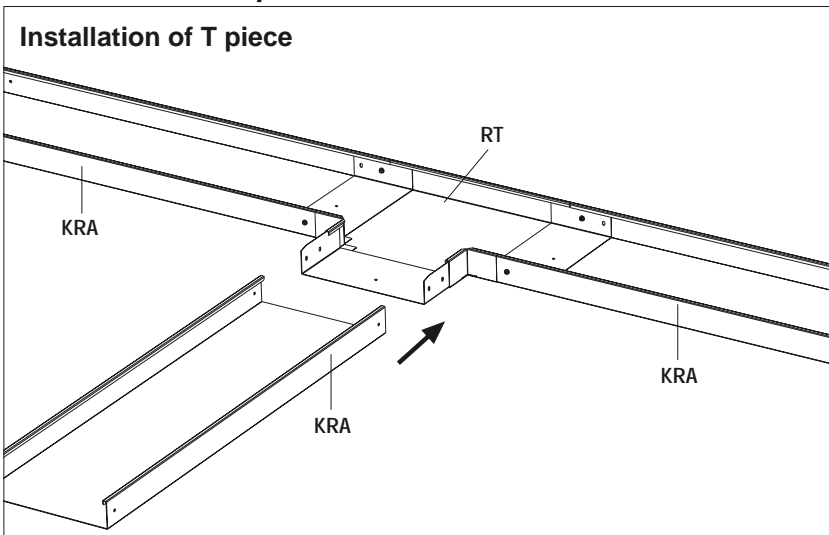
Hot galvanised metal sheet

RT-100-110	14 323 21	2	122	98	246	173	110
RT-200-110	14 323 22	2	237	198	346	273	110
RT-300-110	14 323 23	2	343	297	446	373	110
RT-400-110	14 323 24	2	459	397	546	473	110

Hot galvanised and painted metal sheet

RT-100-110M	14 323 31	2	122	98	246	173	110
RT-200-110M	14 323 32	2	237	198	346	273	110
RT-300-110M	14 323 33	2	343	297	446	373	110
RT-400-110M	14 323 34	2	459	397	546	473	110

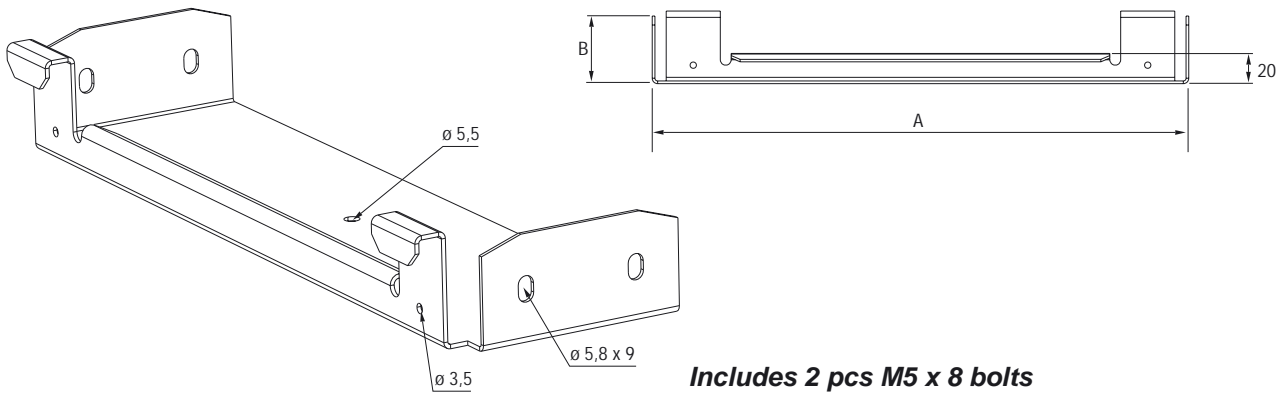
Installation example



The connecting part of T piece RT is pushed into a cable tray and locked from the sides with the bolt sets provided.

ANGLE PIECES, T - PIECES, X - PIECES

T- bracket TKU



Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm
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Hot galvanised metal sheet

TKU-100	14 313 71	10	19	98	40
TKU-200	14 313 72	10	31	198	40
TKU-300	14 313 73	10	44	297	40
TKU-400	14 313 74	10	56	397	40
TKU-500	14 313 75	10	69	497	40
TKU-600	14 313 76	10	82	597	40

Hot galvanised and painted metal sheet

TKU-100M	14 313 81	10	19	98	40
TKU-200M	14 313 82	10	31	198	40
TKU-300M	14 313 83	10	44	297	40
TKU-400M	14 313 84	10	56	397	40
TKU-500M	14 313 85	10	69	497	40
TKU-600M	14 313 86	10	82	597	40

Hot galvanised metal sheet

TKU-100-60	14 324 01	10	24	98	60
TKU-200-60	14 324 02	10	36	198	60
TKU-300-60	14 324 03	10	49	297	60
TKU-400-60	14 324 04	10	61	397	60
TKU-500-60	14 324 05	10	74	497	60
TKU-600-60	14 324 06	10	87	597	60

Hot galvanised and painted metal sheet

TKU-100-60M	14 324 11	10	24	98	60
TKU-200-60M	14 324 12	10	36	198	60
TKU-300-60M	14 324 13	10	49	297	60
TKU-400-60M	14 324 14	10	61	397	60
TKU-500-60M	14 324 15	10	74	497	60
TKU-600-60M	14 324 16	10	87	597	60

ANGLE PIECES, T - PIECES, X - PIECES

Product	SSTL number	Package m	Weight kg/100 pcs	A mm	B mm
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Hot galvanised metal sheet

TKU-100-80	14 324 21	10	28	98	80
TKU-200-80	14 324 22	10	40	198	80
TKU-300-80	14 324 23	10	53	297	80
TKU-400-80	14 324 24	10	65	397	80
TKU-500-80	14 324 25	10	78	497	80
TKU-600-80	14 324 26	10	91	597	80

Hot galvanised and painted metal sheet

TKU-100-80M	14 324 31	10	28	98	80
TKU-200-80M	14 324 32	10	40	198	80
TKU-300-80M	14 324 33	10	53	297	80
TKU-400-80M	14 324 34	10	65	397	80
TKU-500-80M	14 324 35	10	78	497	80
TKU-600-80M	14 324 36	10	91	597	80

Hot galvanised metal sheet

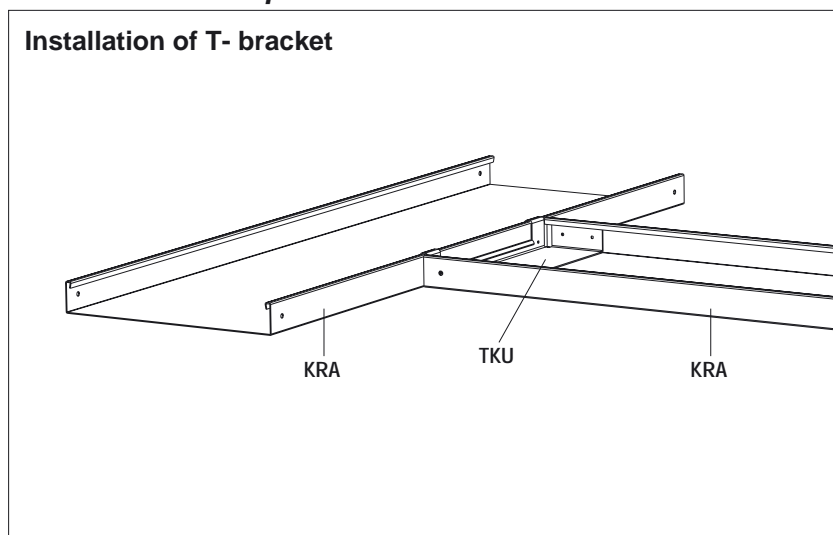
TKU-100-110	14 324 41	10	35	98	110
TKU-200-110	14 324 42	10	40	198	110
TKU-300-110	14 324 43	10	60	297	110
TKU-400-110	14 324 44	10	72	397	110

Hot galvanised and painted metal sheet

TKU-100-110M	14 324 51	10	35	98	110
TKU-200-110M	14 324 52	10	40	198	110
TKU-300-110M	14 324 53	10	60	297	110
TKU-400-110M	14 324 54	10	72	397	110

Installation example

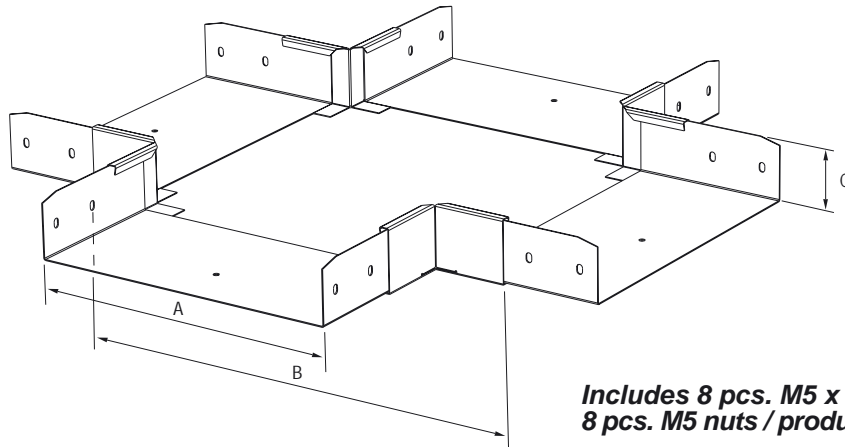
Installation of T- bracket



Push T-bracket TKU into the cable trays forming a branch and lock from the side with bolt sets provided. Lift the supporting hooks on top of the edge in the other cable trays and fix with a rivet if necessary. A notch for cables can be cut into the side of the cable trays if necessary.

ANGLE PIECES, T - PIECES, X - PIECES

X piece RX



Includes 8 pcs. M5 x 8 bolts and 8 pcs. M5 nuts / product

Product	SSTL number	Package m	Weight kg/100 pcs	A mm	B mm	C mm
---------	-------------	-----------	-------------------	------	------	------

Hot galvanised metal sheet

RX-100	14 313 91	2	100	98	246	40
RX-200	14 313 92	2	205	198	346	40
RX-300	14 313 93	2	315	297	446	40
RX-400	14 313 94	2	460	397	546	40
RX-500	14 313 95	2	560	497	646	40
RX-600	14 313 96	2	670	597	746	40

Hot galvanised and painted metal sheet

RX-100M	14 314 01	2	100	98	246	40
RX-200M	14 314 02	2	205	198	346	40
RX-300M	14 314 03	2	315	297	446	40
RX-400M	14 314 04	2	460	397	546	40
RX-500M	14 314 05	2	560	497	646	40
RX-600M	14 314 06	2	670	597	746	40

Hot galvanised metal sheet

RX-100-60	14 323 41	2	113	98	246	60
RX-200-60	14 323 42	2	218	198	346	60
RX-300-60	14 323 43	2	328	297	446	60
RX-400-60	14 323 44	2	473	397	546	60
RX-500-60	14 323 45	2	573	497	646	60
RX-600-60	14 323 46	2	683	597	746	60

Hot galvanised and painted metal sheet

RX-100-60M	14 323 51	2	113	98	246	60
RX-200-60M	14 323 52	2	218	198	346	60
RX-300-60M	14 323 53	2	328	297	446	60
RX-400-60M	14 323 54	2	473	397	546	60
RX-500-60M	14 323 55	2	573	497	646	60
RX-600-60M	14 323 56	2	683	597	746	60

ANGLE PIECES, T - PIECES, X - PIECES

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm	C mm
---------	-------------	------------	-------------------	------	------	------

Hot galvanised metal sheet

RX-100-80	14 323 61	2	126	98	246	80
RX-200-80	14 323 62	2	231	198	346	80
RX-300-80	14 323 63	2	341	297	446	80
RX-400-80	14 323 64	2	486	397	546	80
RX-500-80	14 323 65	2	586	497	646	80
RX-600-80	14 323 66	2	696	597	746	80

Hot galvanised and painted metal sheet

RX-100-80M	14 323 71	2	126	98	246	80
RX-200-80M	14 323 72	2	231	198	346	80
RX-300-80M	14 323 73	2	341	297	446	80
RX-400-80M	14 323 74	2	486	397	546	80
RX-500-80M	14 323 75	2	586	497	646	80
RX-600-80M	14 323 76	2	696	597	746	80

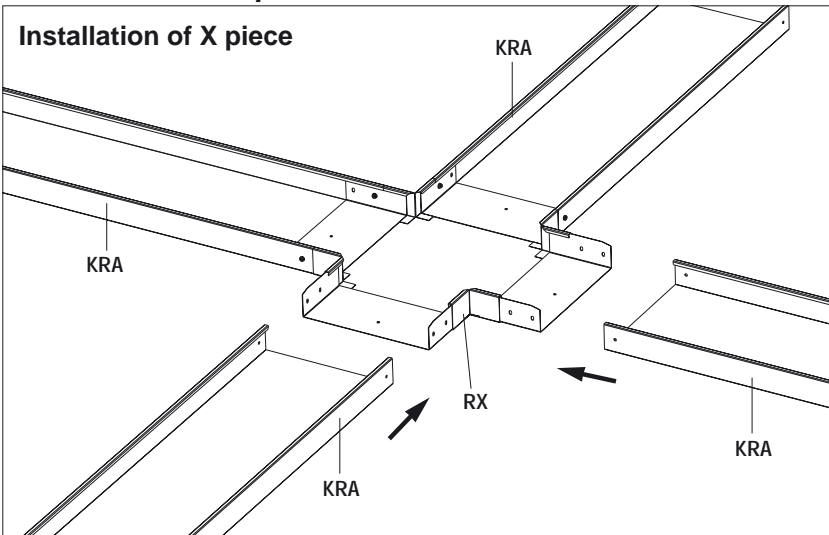
Hot galvanised metal sheet

RX-100-110	14 323 81	2	145	98	246	110
RX-200-110	14 323 82	2	250	198	346	110
RX-300-110	14 323 83	2	360	297	446	110
RX-400-110	14 323 84	2	505	397	546	110

Hot galvanised and painted metal sheet

RX-100-110M	14 323 91	2	145	98	246	110
RX-200-110M	14 323 92	2	250	198	346	110
RX-300-110M	14 323 93	2	360	297	446	110
RX-400-110M	14 323 94	2	505	397	546	110

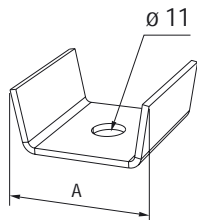
Installation example



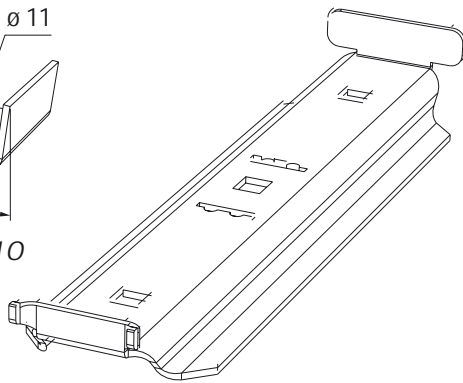
Connecting part of X piece RX is pushed inside of cable trays and fixed from the side with bolt sets provided.

BRACKETS

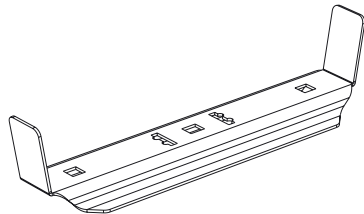
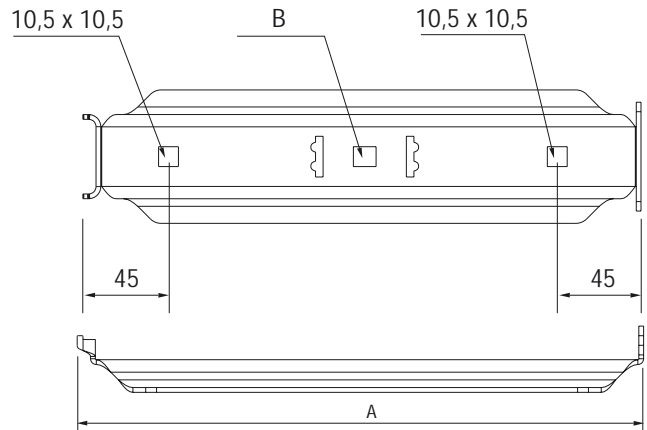
Intermediate bracket RMK



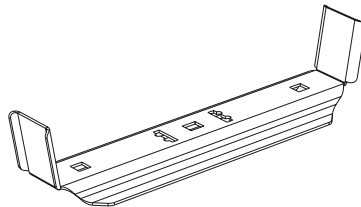
RMK-50/10



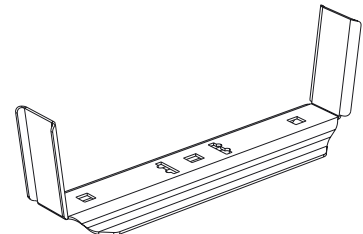
RMK-100 ... RMK-600



RMK-100/10-60 ... RMK-600/10-60



RMK-100/10-80 ... RMK-600/10-80



RMK-100/10-110 ... RMK-400/10-110

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm	Allowed load kg
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Hot galvanised metal sheet

RMK-50/10	14 314 90	10	7	46	10,5 x 12	100
RMK-100/10	14 314 91	10	13	96	10,5 x 12	200
RMK-200/10	14 314 92	10	30	196	10,5 x 12	200
RMK-300/10	14 314 93	10	47	296	10,5 x 12	200
RMK-400/10	14 314 94	10	64	396	10,5 x 12	200
RMK-500/10	14 314 95	10	81	496	10,5 x 12	180
RMK-600/10	14 314 96	10	98	596	10,5 x 12	140

Hot galvanised and painted metal sheet

RMK-50M/10	14 315 00	10	7	46	10,5 x 12	100
RMK-100M/10	14 315 01	10	13	96	10,5 x 12	200
RMK-200M/10	14 315 02	10	30	196	10,5 x 12	200
RMK-300M/10	14 315 03	10	47	296	10,5 x 12	200
RMK-400M/10	14 315 04	10	64	396	10,5 x 12	200
RMK-500M/10	14 315 05	10	81	496	10,5 x 12	180
RMK-600M/10	14 315 06	10	98	596	10,5 x 12	140

Hot galvanised metal sheet

RMK-200/16	14 315 12	10	30	196	ø 16,5	200
RMK-300/16	14 315 13	10	47	296	ø 16,5	200
RMK-400/16	14 315 14	10	64	396	ø 16,5	200
RMK-500/16	14 315 15	10	81	496	ø 16,5	180
RMK-600/16	14 315 16	10	98	596	ø 16,5	140

Hot galvanised and painted metal sheet

RMK-200M/16	14 315 22	10	30	196	ø 16,5	200
RMK-300M/16	14 315 23	10	47	296	ø 16,5	200
RMK-400M/16	14 315 24	10	64	396	ø 16,5	200
RMK-500M/16	14 315 25	10	81	496	ø 16,5	180
RMK-600M/16	14 315 26	10	98	596	ø 16,5	140

BRACKETS

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm	Allowed load kg
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Hot galvanised metal sheet

RMK-100/10-60	14 326 11	10	16	96	10,5 x 12	200
RMK-200/10-60	14 326 12	10	34	196	10,5 x 12	200
RMK-300/10-60	14 326 13	10	50	296	10,5 x 12	200
RMK-400/10-60	14 326 14	10	67	396	10,5 x 12	200
RMK-500/10-60	14 326 15	10	84	496	10,5 x 12	180
RMK-600/10-60	14 326 16	10	101	596	10,5 x 12	140

Hot galvanised and painted metal sheet

RMK-100/10-60M	14 326 21	10	16	96	10,5 x 12	200
RMK-200/10-60M	14 326 22	10	34	196	10,5 x 12	200
RMK-300/10-60M	14 326 23	10	50	296	10,5 x 12	200
RMK-400/10-60M	14 326 24	10	67	396	10,5 x 12	200
RMK-500/10-60M	14 326 25	10	84	496	10,5 x 12	180
RMK-600/10-60M	14 326 26	10	101	596	10,5 x 12	140

Hot galvanised metal sheet

RMK-100/10-80	14 326 31	10	19	96	10,5 x 12	200
RMK-200/10-80	14 326 32	10	36	196	10,5 x 12	200
RMK-300/10-80	14 326 33	10	53	296	10,5 x 12	200
RMK-400/10-80	14 326 34	10	70	396	10,5 x 12	200
RMK-500/10-80	14 326 35	10	87	496	10,5 x 12	180
RMK-600/10-80	14 326 36	10	104	596	10,5 x 12	140

Hot galvanised and painted metal sheet

RMK-100/10-80M	14 326 41	10	19	96	10,5 x 12	200
RMK-200/10-80M	14 326 42	10	36	196	10,5 x 12	200
RMK-300/10-80M	14 326 43	10	53	296	10,5 x 12	200
RMK-400/10-80M	14 326 44	10	70	396	10,5 x 12	200
RMK-500/10-80M	14 326 45	10	87	496	10,5 x 12	180
RMK-600/10-80M	14 326 46	10	104	596	10,5 x 12	140

Hot galvanised metal sheet

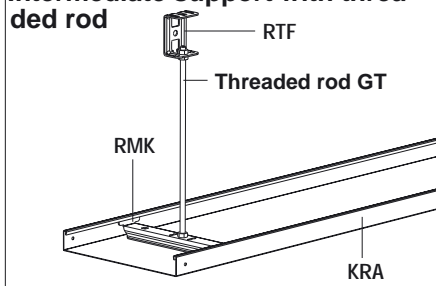
RMK-100/10-110	14 326 51	10	40	96	10,5 x 12	200
RMK-200/10-110	14 326 52	10	57	196	10,5 x 12	200
RMK-300/10-110	14 326 53	10	74	296	10,5 x 12	200
RMK-400/10-110	14 326 54	10	91	396	10,5 x 12	200

Hot galvanised and painted metal sheet

RMK-100/10-110M	14 326 61	10	40	96	10,5 x 12	200
RMK-200/10-110M	14 326 62	10	57	196	10,5 x 12	200
RMK-300/10-110M	14 326 63	10	74	296	10,5 x 12	200
RMK-400/10-110M	14 326 64	10	91	396	10,5 x 12	200

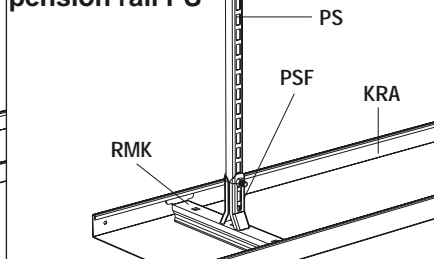
Installation examples

Intermediate support with threaded rod



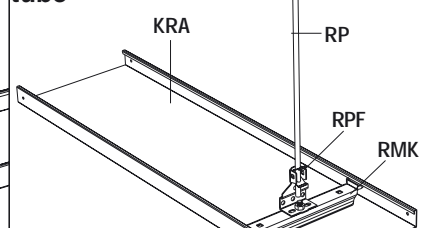
Intermediate bracket RMK is fixed onto threaded rod GT with two nuts.

Intermediate support with suspension rail PS



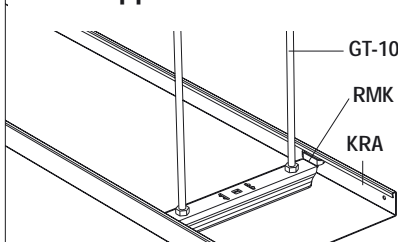
Fix PSF brackets onto support RMK. Fix PS rail onto fasteners PSF with bolt set provided.

Intermediate support with suspension tube



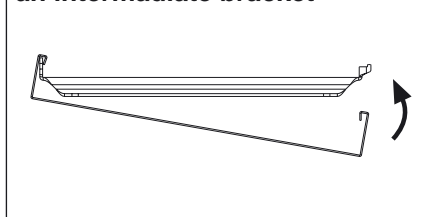
Fix adjustable support fastener RPF onto bracket RMK with bolt set SVK. Suspension tube RP is fixed onto the spring part of the support RPF.

Gate support with threaded rod



Bracket RMK can also be used in a gate support. The bracket RMK is fixed onto threaded rods with nuts.

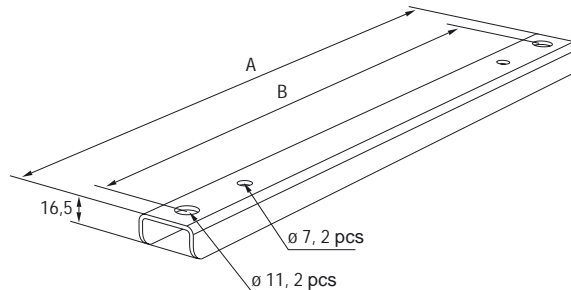
Installing a sheet shelf onto an intermediate bracket



Lift the edge of a cable tray on top of the straight edge of the bracket RMK. Push other edge of the cable tray in place.

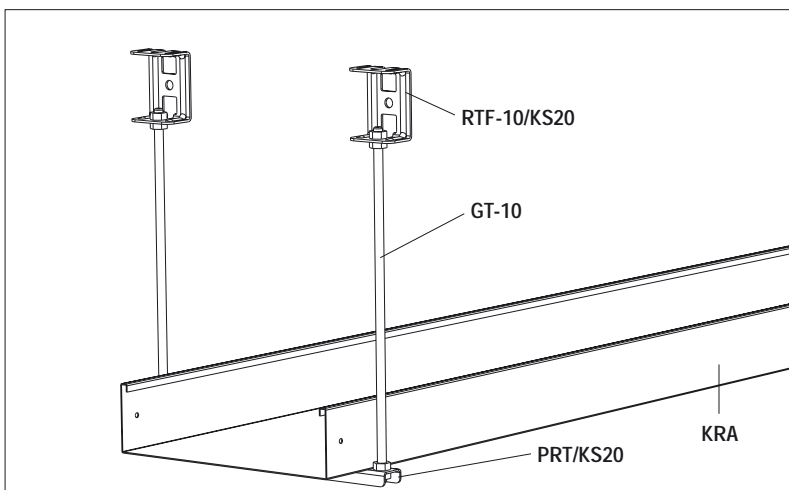
BRACKETS

Gate support bracket PRT



Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm
Hot galvanised metal sheet					
PRT-200/KS20	14 499 70	20	18	250	220
PRT-300/KS20	14 499 71	20	30	350	320
PRT-400/KS20	14 499 72	20	32	450	420
PRT-500/KS20	14 499 73	20	46	550	520
PRT-600/KS20	14 499 74	20	47	650	620
Hot galvanised and painted metal sheet					
PEX PRT-200/KS20	14 311 32	20	18	250	220
PEX PRT-300/KS20	14 311 33	20	30	350	320
PEX PRT-400/KS20	14 311 34	20	32	450	420
PEX PRT-500/KS20	14 311 35	20	46	550	520
PEX PRT-600/KS20	14 311 36	20	47	650	620

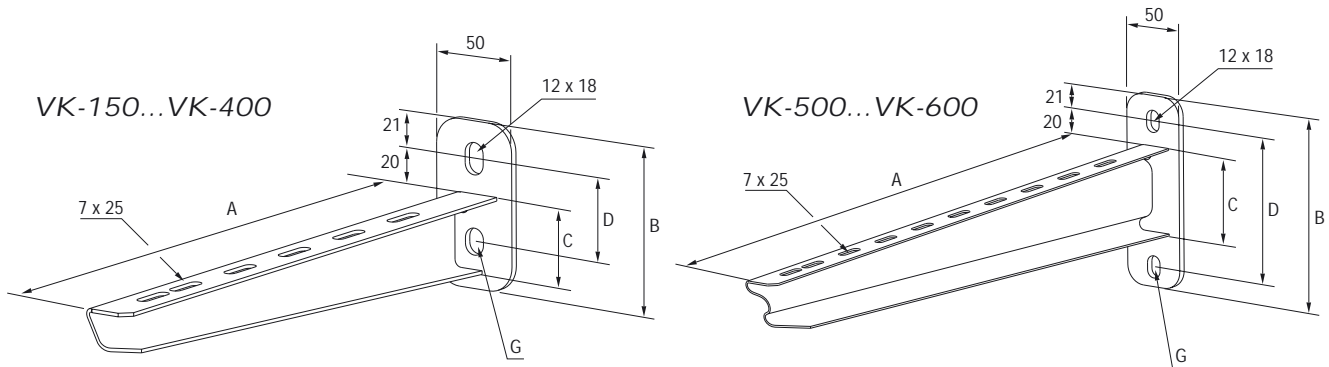
Installation example



A gate support bracket PRT is fixed onto threaded rods GT-10 with nuts. To fasten threaded rods to ceiling brackets RTF can be used.

BRACKETS

Wall bracket VK 2 kN



Product	SSTL number	Package pc	Weight kg/100 pc	L mm	A mm	B mm	C mm	G mm
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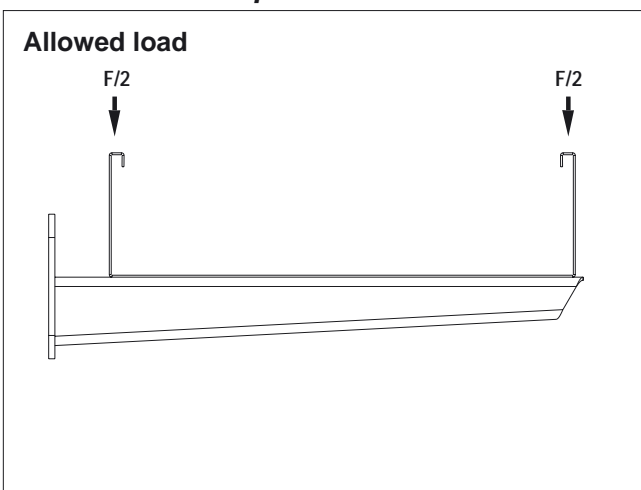
Hot dip galvanised after manufacture

VK-150 2 KN	14 495 90	10	35	190	93	36	46	12x15
VK-200 2 KN	14 495 91	10	42	240	93	39	46	12x15
VK-300 2 KN	14 495 92	10	54	340	93	44	46	12x15
VK-400 2 KN	14 495 93	10	80	440	108	50	56	12x15
VK-500 2 KN	14 495 94	10	115	540	155	75	118	12x18
VK-600 2 KN	14 495 95	10	128	640	155	80	118	12x18

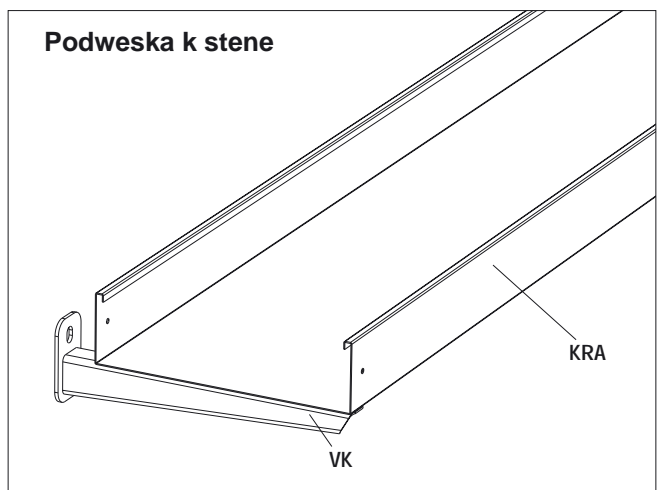
Hot dip galvanised and painted after manufacture

PEX VK-150 2 KN	14 307 61	10	35	190	93	36	46	12x15
PEX VK-200 2 KN	14 307 62	10	42	240	93	39	46	12x15
PEX VK-300 2 KN	14 307 63	10	54	340	93	44	46	12x15
PEX VK-400 2 KN	14 307 64	10	80	440	108	50	56	12x15
PEX VK-500 2 KN	14 307 65	10	115	540	155	75	118	12x18
PEX VK-600 2 KN	14 307 66	10	128	640	155	80	118	12x18

Installation examples



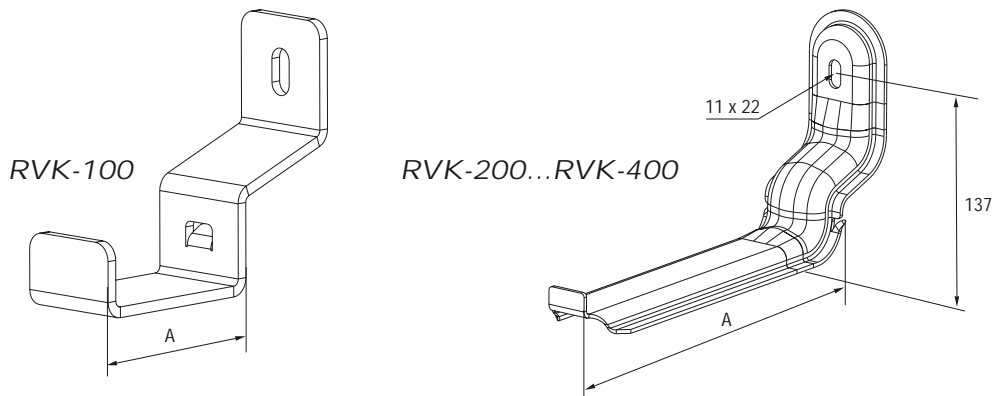
Allowable load $F = 2 \text{ kN} = 200 \text{ kg}$.



Wall support bracket VK can be fastened directly onto a wall with wedge anchors.

BRACKETS

Inside wall bracket RVK



Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	Allowed load kg
---------	-------------	------------	-------------------	------	-----------------

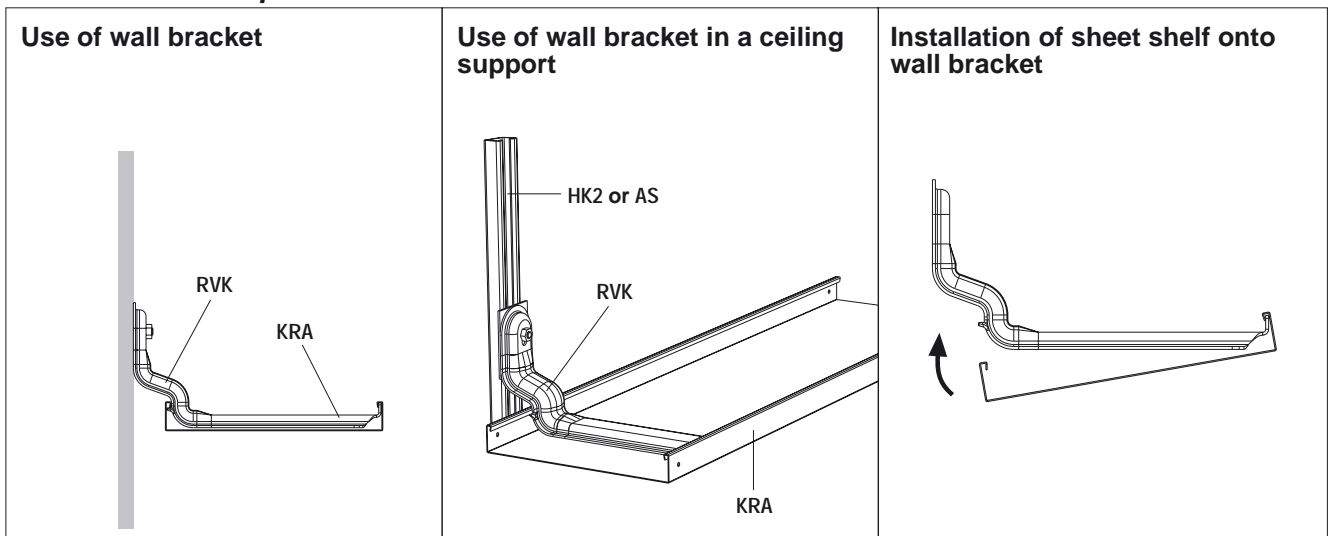
Hot galvanised metal sheet

RVK-100	14 315 31	10	50	95	
RVK-200	14 315 32	10	80	195	230
RVK-300	14 315 33	10	100	295	140
RVK-400	14 315 34	10	120	395	100

Hot galvanised and painted metal sheet

RVK-100M	14 315 41	10	50	95	
RVK-200M	14 315 42	10	80	195	230
RVK-300M	14 315 43	10	100	295	140
RVK-400M	14 315 44	10	120	395	100

Installation examples



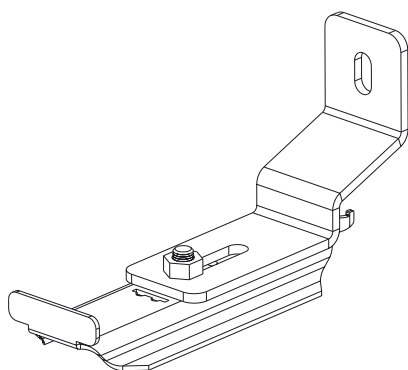
Wall bracket RVK is used as an inside wall support of a cable tray.

Wall bracket RVK can be fixed onto bracket HK1, HK2, ceiling bracket TP2 or anchor rail AS.

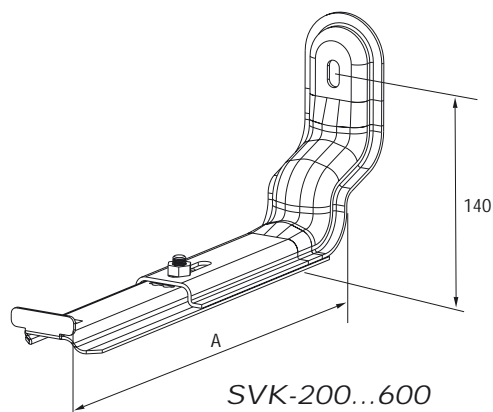
Lift the edge of a cable tray on top of the outer edge of the wall bracket. Push inner edge of the cable trays in place from below.

BRACKETS

Adjustable inside wall bracket SVK



SVK-100



SVK-200...600

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	Allowed load kg
---------	-------------	------------	-------------------	------	-----------------

Hot galvanised metal sheet

SVK-100	14 315 51	10	64	96	
SVK-200	14 315 52	10	92	196	170
SVK-300	14 315 53	10	120	296	170
SVK-400	14 315 54	10	148	396	110
SVK-500	14 315 55	10	176	496	90
SVK-600	14 315 56	10	203	596	80

Hot galvanised and painted metal sheet

SVK-100M	14 315 61	10	64	96	
SVK-200M	14 315 62	10	92	196	170
SVK-300M	14 315 63	10	120	296	170
SVK-400M	14 315 64	10	148	396	110
SVK-500M	14 315 65	10	176	496	90
SVK-600M	14 315 66	10	203	596	80

Installation examples

Use of adjustable wall bracket	Use of wall bracket in a ceiling support	Installation of sheet shelf onto wall bracket

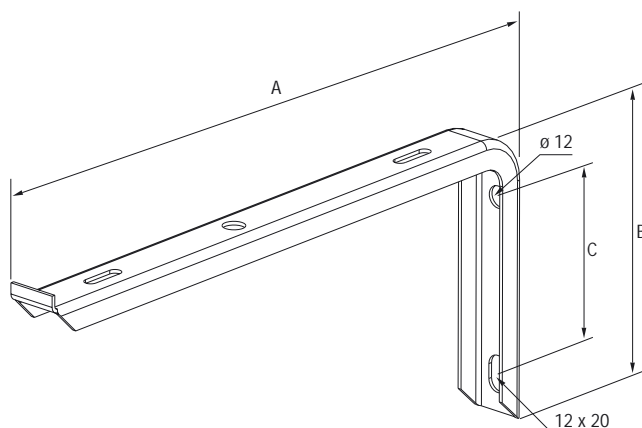
Adjustable wall bracket SVK is used as an inside wall bracket of a cable tray.

Adjustable wall bracket SVK can be fixed onto bracket HK1, HK2, ceiling bracket TP2 or anchor rail AS.

Lift the edge of a cable tray on top of the outer edge of the adjustable wall bracket. Push inner edge of the cable tray in place from below.

BRACKETS

Underside wall bracket APK



Product	SSTL number	Package pc	Weight kg/100 pc	A mm	B mm	C mm	Allowed load kg
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Hot galvanised metal sheet

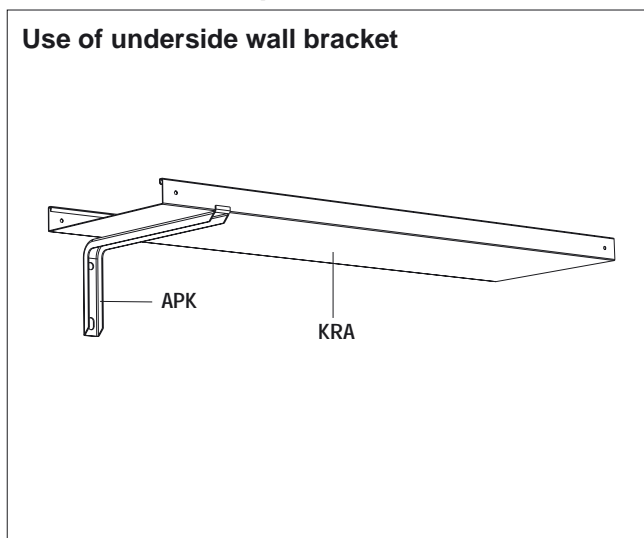
APK-100	14 315 71	10	20	149	155	95	60
APK-200	14 315 72	10	30	249	155	95	60
APK-300	14 315 73	10	40	349	155	95	60
APK-400	14 315 74	10	160	453	240	150	120
APK-500	14 315 75	10	180	553	240	150	120
APK-600	14 315 76	10	200	653	240	150	100

Hot galvanised and painted metal sheet

APK-100M	14 315 81	10	20	149	155	95	60
APK-200M	14 315 82	10	30	249	155	95	60
APK-300M	14 315 83	10	40	349	155	95	60
APK-400M	14 315 84	10	160	453	240	150	120
APK-500M	14 315 85	10	180	553	240	150	120
APK-600M	14 315 86	10	200	653	240	150	100

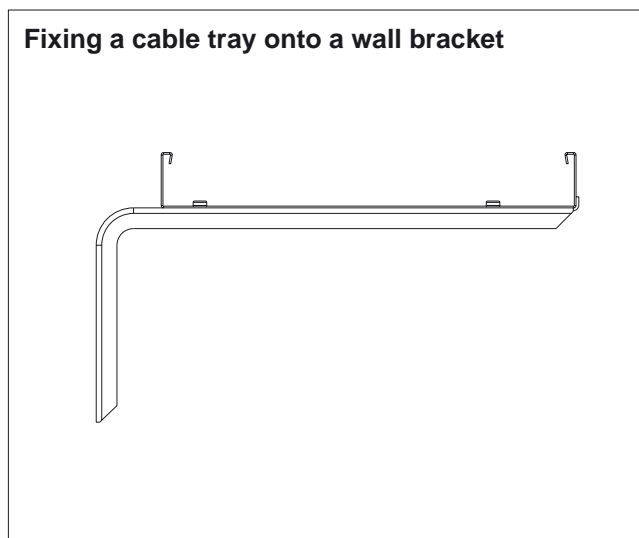
Installation examples

Use of underside wall bracket



Cable trays are supported from underneath with underside wall bracket APK.

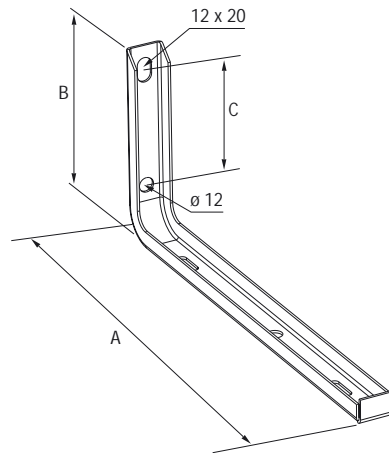
Fixing a cable tray onto a wall bracket



A cable tray is fixed onto underside wall bracket APK with two bolt sets RSS.

BRACKETS

Upper side wall bracket YPK



Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm	C mm	Allowed load kg
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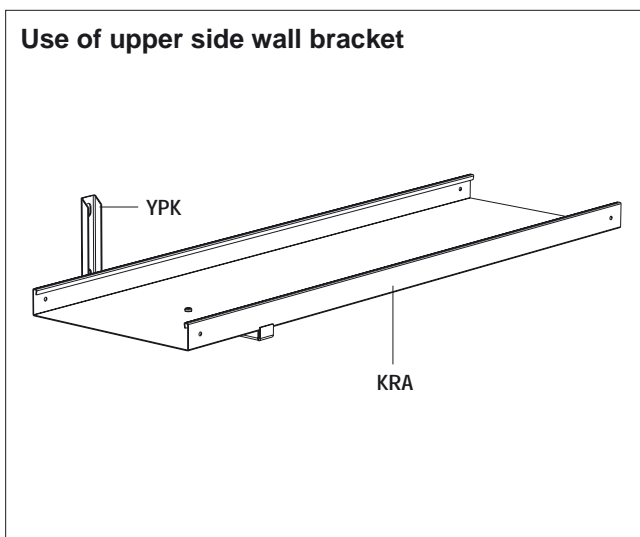
Hot galvanised metal sheet

YPK-100	14 315 91	10	20	149	155	95	60
YPK-200	14 315 92	10	30	249	155	95	60
YPK-300	14 315 93	10	40	349	155	95	60
YPK-400	14 315 94	10	160	453	240	150	120
YPK-500	14 315 95	10	180	553	240	150	120
YPK-600	14 315 96	10	200	653	240	150	100

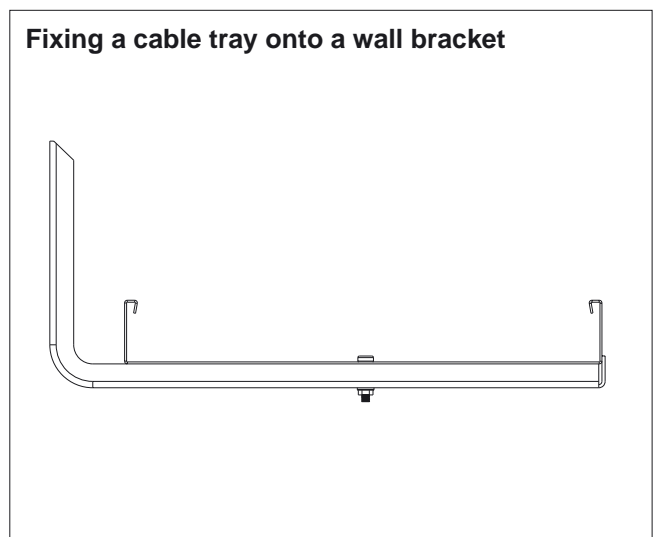
Hot galvanised and painted metal sheet

YPK-100M	14 316 01	10	20	149	155	95	60
YPK-200M	14 316 02	10	30	249	155	95	60
YPK-300M	14 316 03	10	40	349	155	95	60
YPK-400M	14 316 04	10	160	453	240	150	120
YPK-500M	14 316 05	10	180	553	240	150	120
YPK-600M	14 316 06	10	200	653	240	150	100

Installation examples



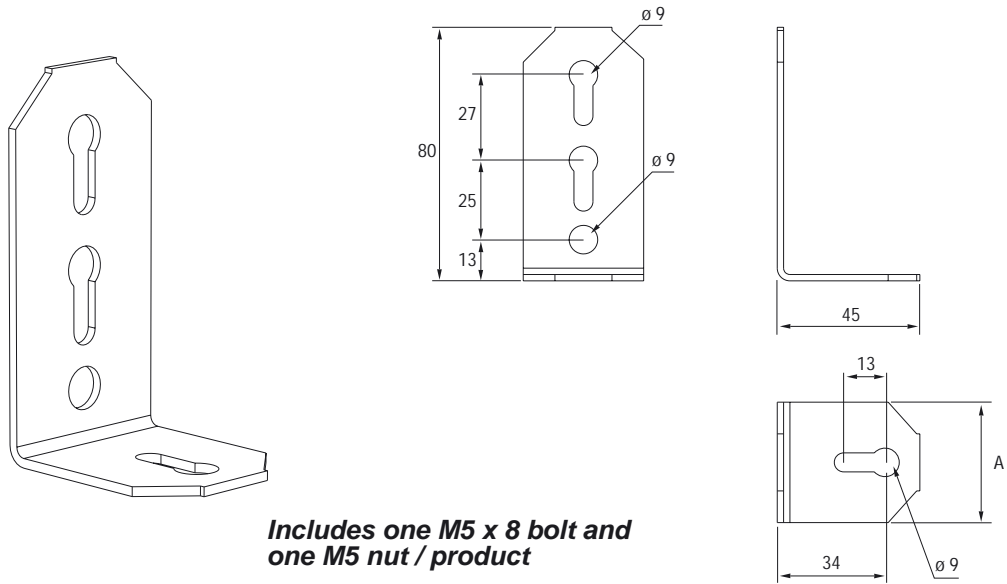
Cable trays are supported from the top with side wall bracket YPK.



A cable tray is fixed onto upper side wall bracket YPK with two M6 30 lock bolts and M6 nuts.

BRACKETS

End bracket RÄF



Product	SSTL number	Package pc	Weight kg/100 pcs	A mm
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Hot galvanised metal sheet

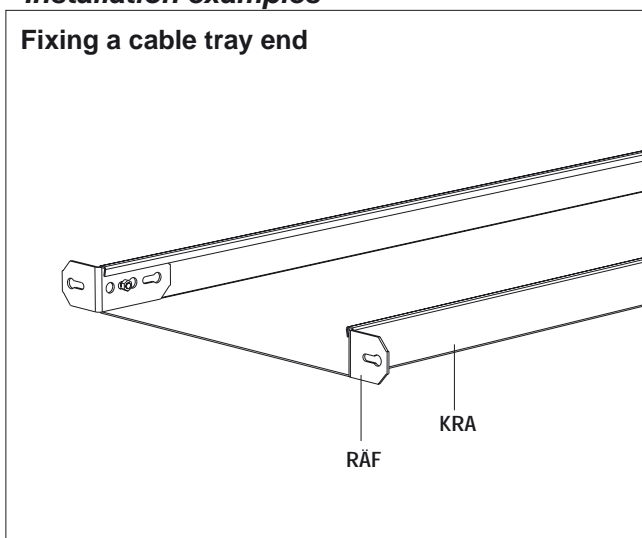
RÄF	14 316 11	10	6	38
RÄF-60	14 327 31	10	11	58
RÄF-80	14 327 32	10	16	78
RÄF-110	14 327 33	10	24	108

Hot galvanised and painted metal sheet

RÄF M	14 316 12	10	6	38
RÄF-60 M	14 327 34	10	11	58
RÄF-80 M	14 327 35	10	16	78
RÄF-110 M	14 327 36	10	24	108

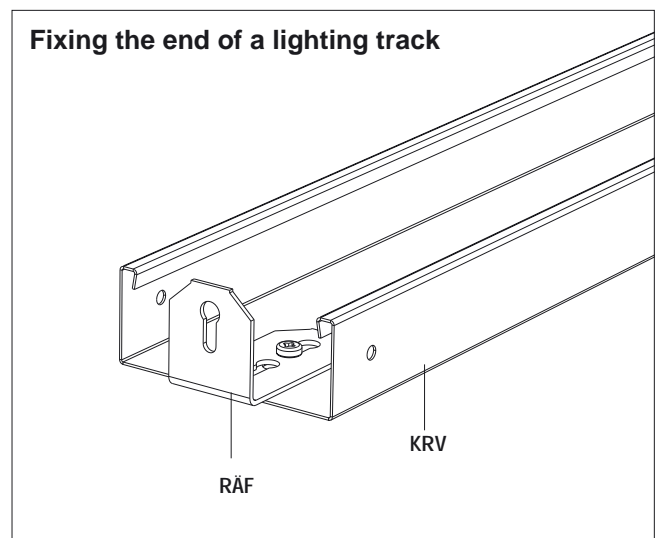
Installation examples

Fixing a cable tray end



The end of a cable tray is fixed to wall using two end brackets RÄF. The brackets are fixed to the cable tray with bolts sets provided.

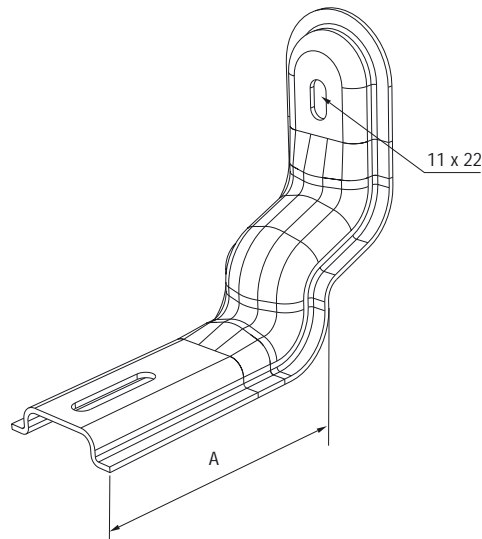
Fixing the end of a lighting track



The end of a lighting track is fixed to a wall using end bracket RÄF. The bracket is fixed onto the end cable tray with the bolt set provided.

BRACKETS

Wall bracket K



Product	SSTL number	Package pc	Weight kg/100 pcs	A mm
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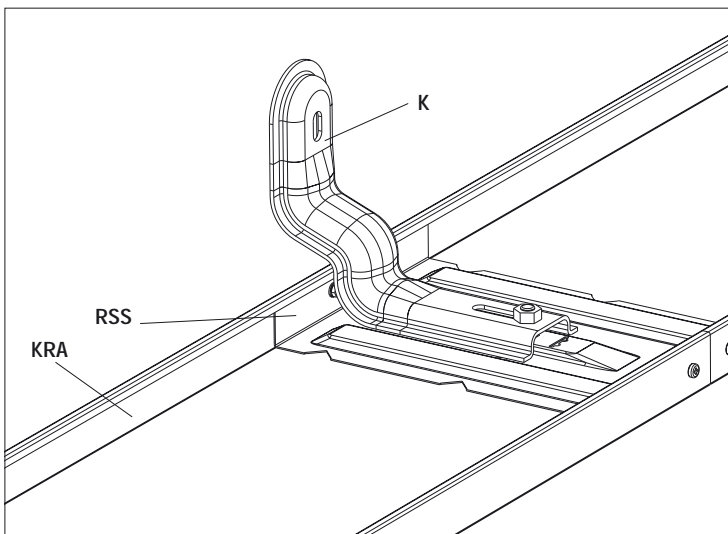
Hot galvanised metal sheet

K-100	14 318 41	10	51	55
K-200	14 318 42	10	62	108
K-300	14 318 43	10	73	158
K-400	14 318 44	10	84	208
K-500	14 318 45	10	95	258
K-600	14 318 46	10	105	308

Hot galvanised and painted metal sheet

K-100M	14 318 51	10	51	55
K-200M	14 318 52	10	62	108
K-300M	14 318 53	10	73	158
K-400M	14 318 54	10	84	208
K-500M	14 318 55	10	95	258
K-600M	14 318 56	10	105	308

Installation example

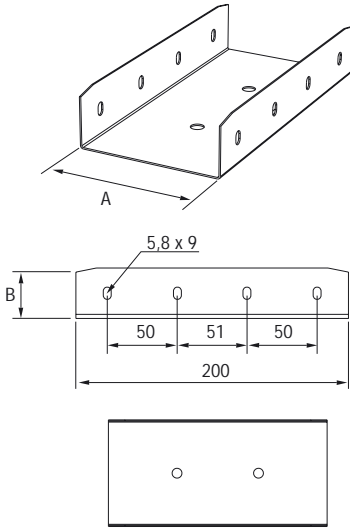


Wall bracket K is fixed onto joint RSS using the bolt set provided. The distance of the cable trays from the wall can be adjusted between 0 - 44 mm.

EXTENSION PIECES

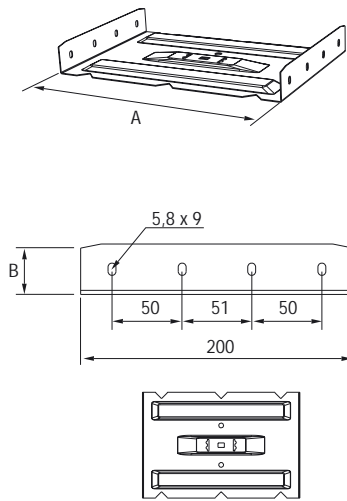
Extension piece RSS

RSS-50 ... RSS-100



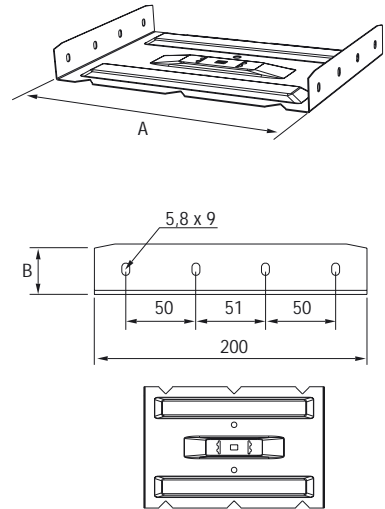
Use:
KRA-100
KRB-100
KRV-50 ... KRV-100

RSS-200 ... RSS-400



Use:
KRA-200 ... KRA-400
KRB-200 ... KRB-400
KRV-200

RSS-500 ... RSS-600



Use:
KRA-500 ... KRA-600
KRB-500 ... KRB-600

Includes 4 pcs. M5 x 8 bolts and 4 pcs. M5 nuts / product

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm
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Hot galvanised metal sheet

RSS-50	14 314 10	10	10	48	40
RSS-100	14 314 11	10	27	98	40
RSS-200	14 314 12	10	43	198	40
RSS-300	14 314 13	10	68	297	40
RSS-400	14 314 14	10	90	397	40
RSS-500	14 314 15	10	130	497	40
RSS-600	14 314 16	10	160	597	40

Hot galvanised and painted metal sheet

RSS-50M	14 314 20	10	10	48	40
RSS-100M	14 314 21	10	27	98	40
RSS-200M	14 314 22	10	43	198	40
RSS-300M	14 314 23	10	68	297	40
RSS-400M	14 314 24	10	90	397	40
RSS-500M	14 314 25	10	130	497	40
RSS-600M	14 314 26	10	160	597	40

Hot galvanised metal sheet

RSS-100-60	14 324 61	10	35	98	60
RSS-200-60	14 324 62	10	51	198	60
RSS-300-60	14 324 63	10	76	297	60
RSS-400-60	14 324 64	10	98	397	60
RSS-500-60	14 324 65	10	140	497	60
RSS-600-60	14 324 66	10	170	597	60

Hot galvanised and painted metal sheet

RSS-100-60M	14 324 71	10	35	98	60
RSS-200-60M	14 324 72	10	51	198	60
RSS-300-60M	14 324 73	10	76	297	60
RSS-400-60M	14 324 74	10	98	397	60
RSS-500-60M	14 324 75	10	140	497	60
RSS-600-60M	14 324 76	10	170	597	60

EXTENSION PIECES

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm
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Hot galvanised metal sheet

RSS-100-80	14 324 81	10	43	98	80
RSS-200-80	14 324 82	10	59	198	80
RSS-300-80	14 324 83	10	84	297	80
RSS-400-80	14 324 84	10	106	397	80
RSS-500-80	14 324 85	10	149	497	80
RSS-600-80	14 324 86	10	179	597	80

Hot galvanised and painted metal sheet

RSS-100-80M	14 324 91	10	43	98	80
RSS-200-80M	14 324 92	10	59	198	80
RSS-300-80M	14 324 93	10	84	297	80
RSS-400-80M	14 324 94	10	106	397	80
RSS-500-80M	14 324 95	10	149	497	80
RSS-600-80M	14 324 96	10	179	597	80

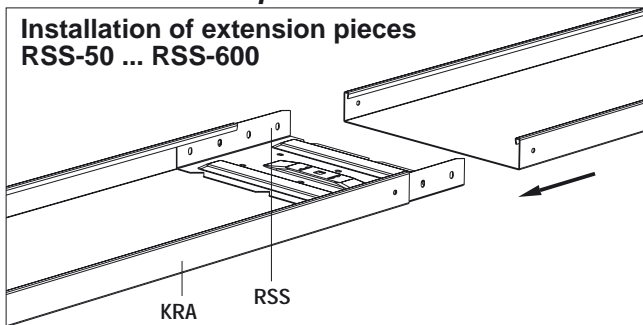
Hot galvanised metal sheet

RSS-100-110	14 325 01	10	55	98	110
RSS-200-110	14 325 02	10	74	198	110
RSS-300-110	14 325 03	10	96	297	110
RSS-400-110	14 325 04	10	118	397	110

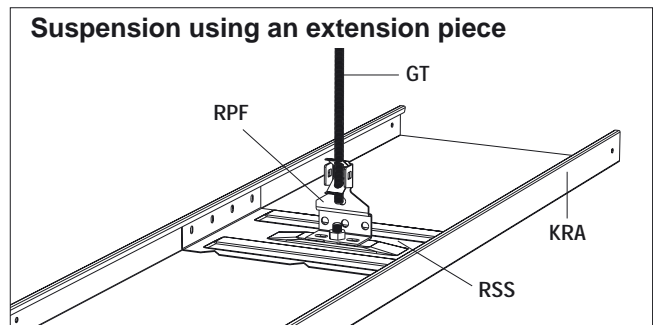
Hot galvanised and painted metal sheet

RSS-100-110M	14 325 11	10	55	98	110
RSS-200-110M	14 325 12	10	74	198	110
RSS-300-110M	14 325 13	10	96	297	110
RSS-400-110M	14 325 14	10	118	397	110

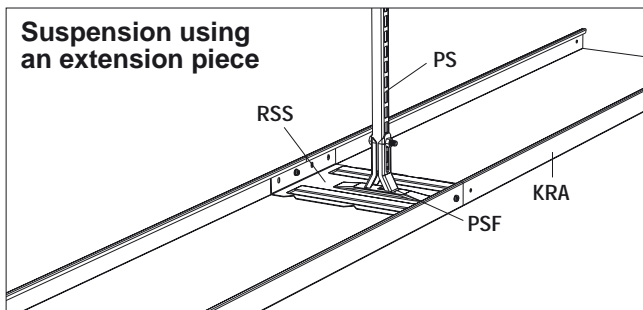
Installation examples



Extension piece RSS is pushed inside cable trays and fixed using the provided bolt sets.



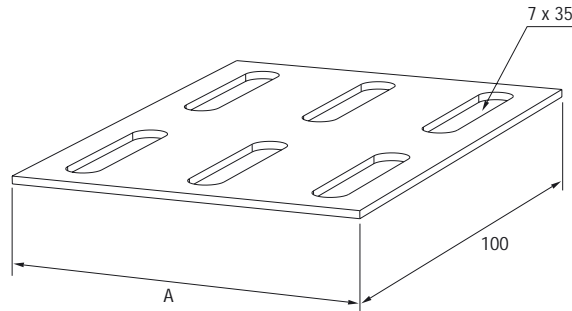
A suspension can be built using extension pieces RSS-200...RSS-600 together with brackets RPF and threaded rod GT or suspension tube RP.



A suspension can be built using extension pieces RSS-200 ... RSS-600 together with PS-rail brackets PSF and a PS-rail.

EXTENSION PIECES

Extension piece J/KRC



Includes 4 pcs. M5 x 8 bolts and 4 pcs. M5 nuts / product

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm
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Hot galvanised metal sheet

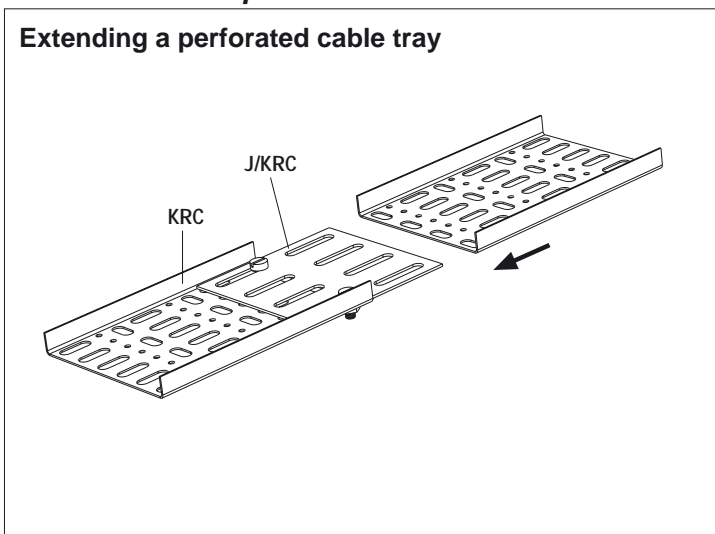
J-50/KRC	14 314 30	10	3	48
J-100/KRC	14 314 31	10	7	98
J-150/KRC	14 314 32	10	11	148
J-200/KRC	14 314 33	10	18	197
J-250/KRC	14 314 34	10	23	247
J-300/KRC	14 314 35	10	27	297
J-400/KRC	14 314 36	10	37	397

Hot galvanised and painted metal sheet

J-50M/KRC	14 314 40	10	3	48
J-100M/KRC	14 314 41	10	7	98
J-150M/KRC	14 314 42	10	11	148
J-200M/KRC	14 314 43	10	18	197
J-250M/KRC	14 314 44	10	23	247
J-300M/KRC	14 314 45	10	27	297
J-400M/KRC	14 314 46	10	37	397

Installation example

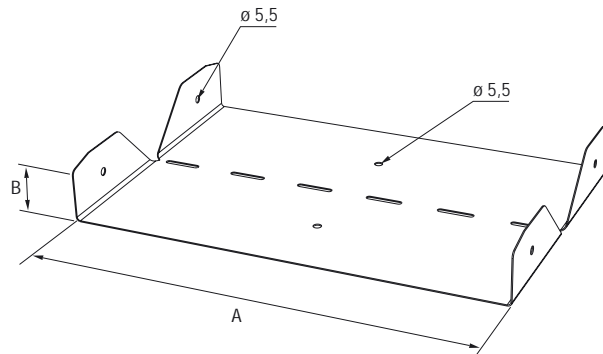
Extending a perforated cable tray



Perforated cable tray KRC is extended using extension piece J/KRC. The extension piece is fixed using the bolts provided.

EXTENSION PIECES

Elbow joint RVS



Includes 4 pcs. M5 x 8 bolts and 4 pcs. M5 nuts / product

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm
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Hot galvanised metal sheet

RVS-50	14 314 50	10	10	48	40
RVS-100	14 314 51	10	18	98	40
RVS-200	14 314 52	10	28	198	40
RVS-300	14 314 53	10	39	297	40
RVS-400	14 314 54	10	50	397	40
RVS-500	14 314 55	10	60	497	40
RVS-600	14 314 56	10	70	597	40

Hot galvanised and painted metal sheet

RVS-50M	14 314 60	10	10	48	40
RVS-100M	14 314 61	10	18	98	40
RVS-200M	14 314 62	10	28	198	40
RVS-300M	14 314 63	10	39	297	40
RVS-400M	14 314 64	10	50	397	40
RVS-500M	14 314 65	10	60	497	40
RVS-600M	14 314 66	10	70	597	40

Hot galvanised metal sheet

RVS-100-60	14 325 21	10	22	98	60
RVS-200-60	14 325 22	10	33	198	60
RVS-300-60	14 325 23	10	44	297	60
RVS-400-60	14 325 24	10	55	397	60
RVS-500-60	14 325 25	10	65	497	60
RVS-600-60	14 325 26	10	75	597	60

Hot galvanised and painted metal sheet

RVS-100-60M	14 325 31	10	22	98	60
RVS-200-60M	14 325 32	10	33	198	60
RVS-300-60M	14 325 33	10	44	297	60
RVS-400-60M	14 325 34	10	55	397	60
RVS-500-60M	14 325 35	10	65	497	60
RVS-600-60M	14 325 36	10	75	597	60

EXTENSION PIECES

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm
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Hot galvanised metal sheet

RVS-100-80	14 325 41	10	28	98	80
RVS-200-80	14 325 42	10	38	198	80
RVS-300-80	14 325 43	10	49	297	80
RVS-400-80	14 325 44	10	60	397	80
RVS-500-80	14 325 45	10	70	497	80
RVS-600-80	14 325 46	10	80	597	80

Hot galvanised and painted metal sheet

RVS-100-80M	14 325 51	10	28	98	80
RVS-200-80M	14 325 52	10	38	198	80
RVS-300-80M	14 325 53	10	49	297	80
RVS-400-80M	14 325 54	10	60	397	80
RVS-500-80M	14 325 55	10	70	497	80
RVS-600-80M	14 325 56	10	80	597	80

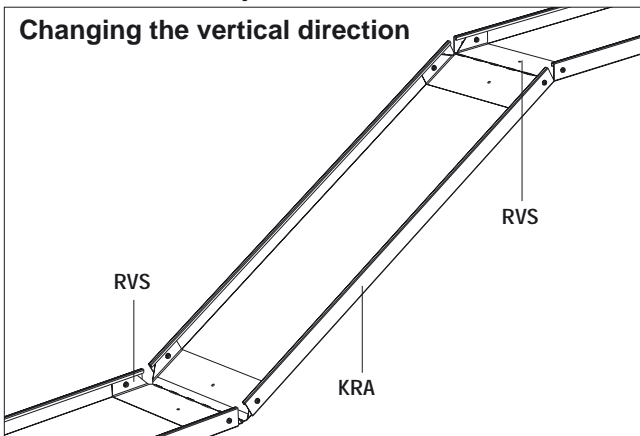
Hot galvanised metal sheet

RVS-100-110	14 325 61	10	35	98	110
RVS-200-110	14 325 62	10	45	198	110
RVS-300-110	14 325 63	10	56	297	110
RVS-400-110	14 325 64	10	67	397	110

Hot galvanised and painted metal sheet

RVS-100-110M	14 325 71	10	35	98	110
RVS-200-110M	14 325 72	10	45	198	110
RVS-300-110M	14 325 73	10	56	297	110
RVS-400-110M	14 325 74	10	67	397	110

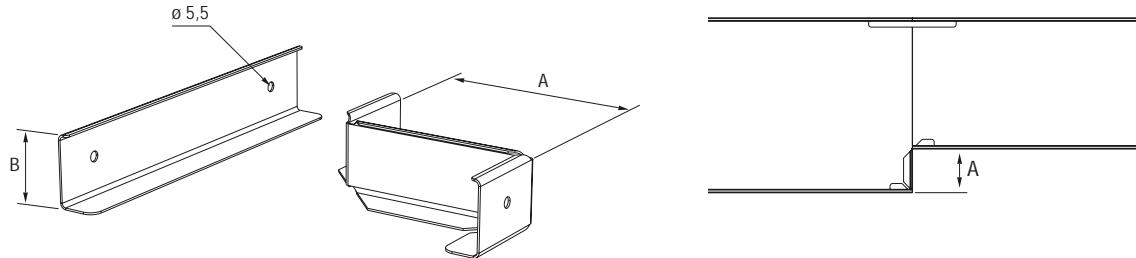
Installation example



The elbow joint is pushed into cable trays, and fixed using the bolt sets provided. The vertical direction of cable trays can be adjusted max. 90°.

EXTENSION PIECES

Narrowing piece RAK



Includes 4 pcs. M5 x 8 bolts and 4 pcs. M5 nuts / product

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm
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Hot galvanised metal sheet

RAK-100	14 314 71	1	21	100	40
RAK-200	14 314 72	1	24	200	40
RAK-300	14 314 73	1	31	300	40

Hot galvanised and painted metal sheet

RAK-100M	14 314 81	1	21	100	40
RAK-200M	14 314 82	1	24	200	40
RAK-300M	14 314 83	1	31	300	40

Hot galvanised metal sheet

RAK-100-60	14 325 81	1	27	100	60
RAK-200-60	14 325 82	1	32	200	60
RAK-300-60	14 325 83	1	41	300	60

Hot galvanised and painted metal sheet

RAK-100-60M	14 325 86	1	27	100	60
RAK-200-60M	14 325 87	1	32	200	60
RAK-300-60M	14 325 88	1	41	300	60

Hot galvanised metal sheet

RAK-100-80	14 325 91	1	34	100	80
RAK-200-80	14 325 92	1	40	200	80
RAK-300-80	14 325 93	1	50	300	80

Hot galvanised and painted metal sheet

RAK-100-80M	14 325 96	1	34	100	80
RAK-200-80M	14 325 97	1	40	200	80
RAK-300-80M	14 325 98	1	50	300	80

EXTENSION PIECES

<i>Product</i>	<i>SSTL number</i>	<i>Package pc</i>	<i>Weight kg/100 pcs</i>	<i>A mm</i>	<i>B mm</i>
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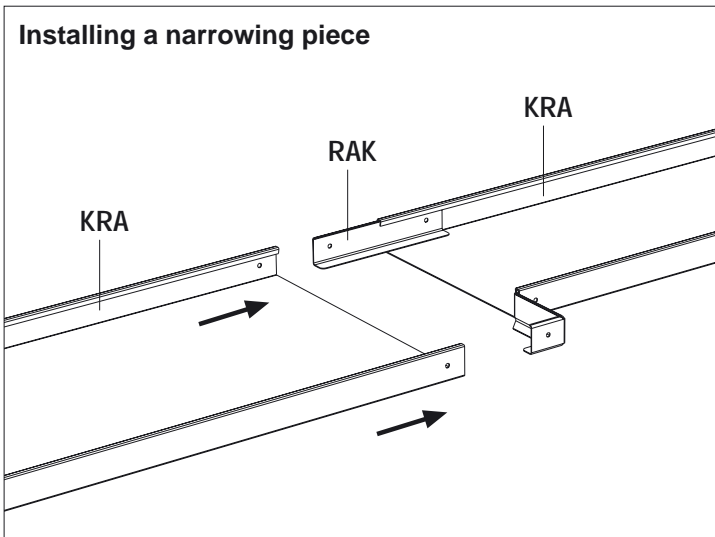
Hot galvanised metal sheet

RAK-100-110	14 326 01	1	43	100	110
RAK-200-110	14 326 02	1	52	200	110
RAK-300-110	14 326 03	1	65	300	110

Hot galvanised and painted metal sheet

RAK-100-110M	14 326 06	1	43	100	110
RAK-200-110M	14 326 07	1	52	200	110
RAK-300-110M	14 326 08	1	65	300	110

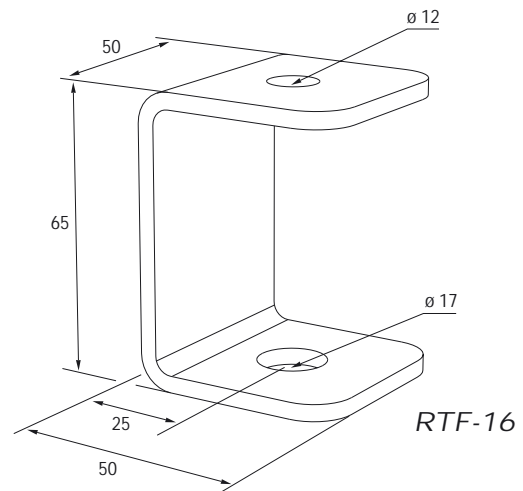
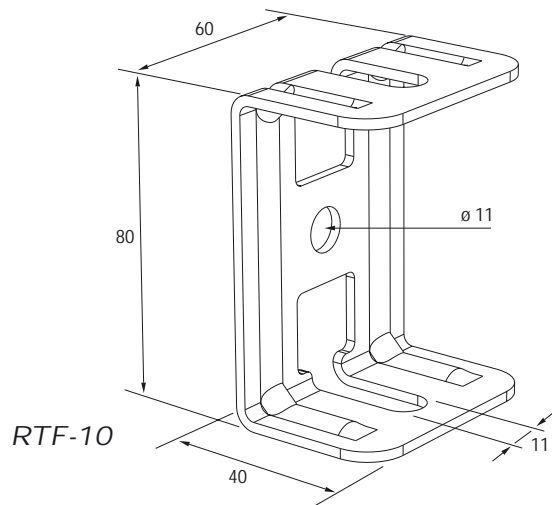
Installation example



Bend the narrowing piece equipped with notches in the direction needed. Push the narrowing pieces under the cable tray edges and fix with bolt sets provided.

INSTALLATION ACCESSORIES

Ceiling bracket RTF



Product	SSTL number	Package pc	Weight kg/100 pcs
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Hot galvanised metal sheet

RTF-10/KS20	14 494 84	20	12
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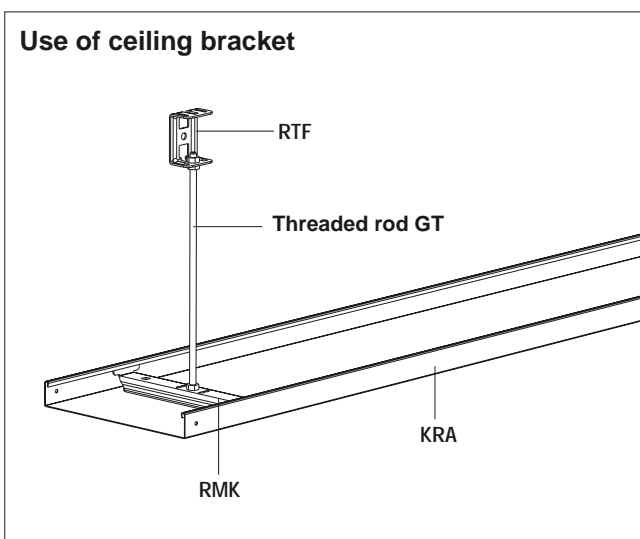
Hot dip galvanised after manufacture

RTF-10	14 496 52	20	12
RTF-16	14 496 53	10	23

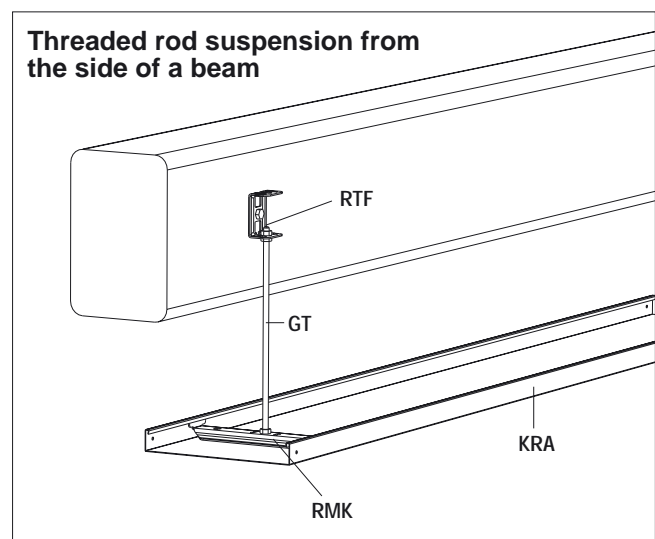
Hot dip galvanised and painted after manufacture

RTF-10 M	14 316 19	20	12
RTF-16 M	14 316 21	10	23

Installation examples



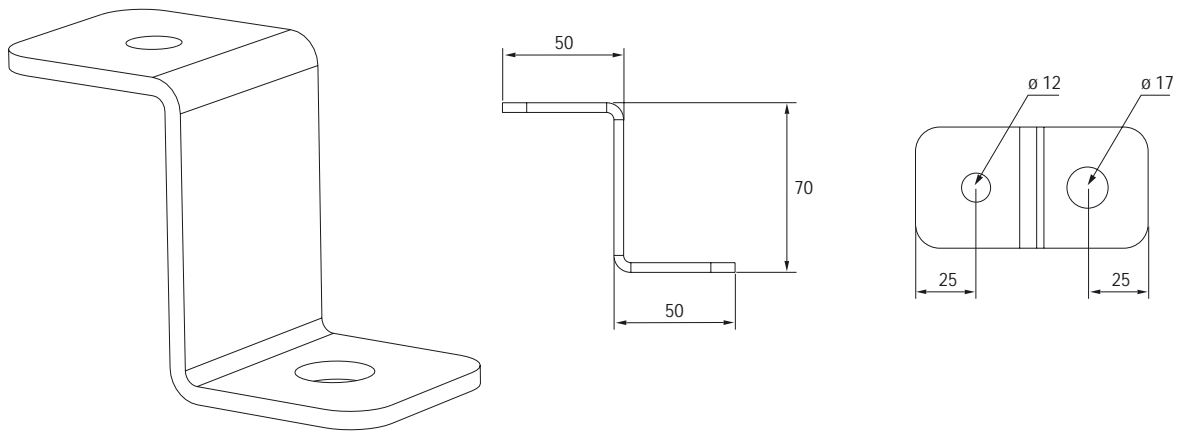
Ceiling bracket RTF is used in fixing a threaded rod to the ceiling.



Using ceiling bracket RTF-10, threaded rod GT, and intermediate bracket RMK, a cable tray can be fixed to the side of a steel or concrete beam.

INSTALLATION ACCESSORIES

Adjustable ceiling bracket RTF-Z



Product	SSTL number	Package pc	Weight kg/100 pcs
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Hot galvanised metal sheet

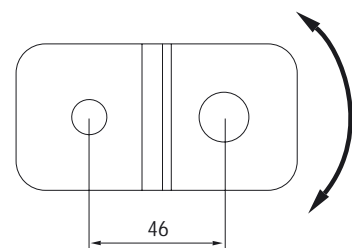
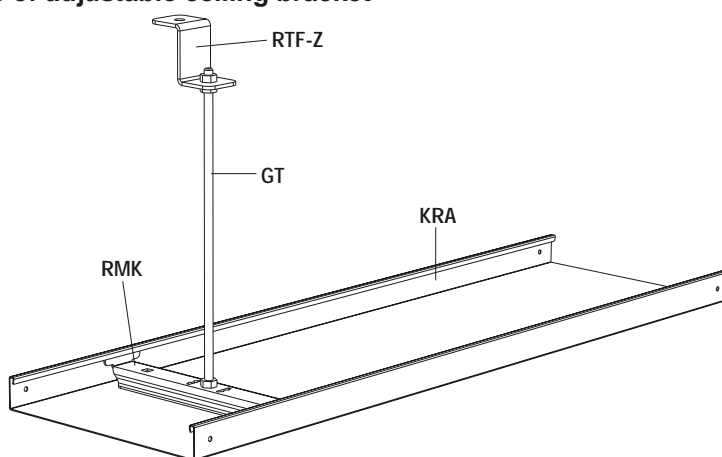
RTF-Z	14 496 56	10	23
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Hot galvanised and painted metal sheet

RTF-Z M	14 316 23	10	23
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Installation examples

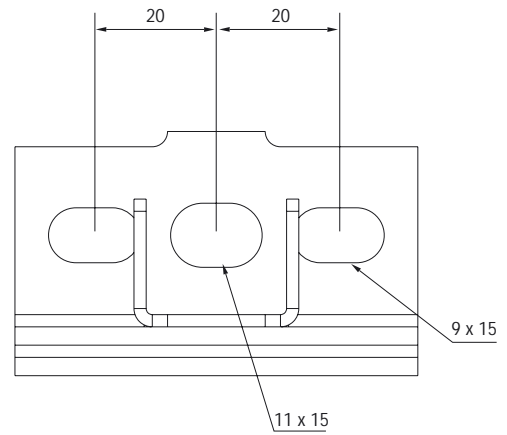
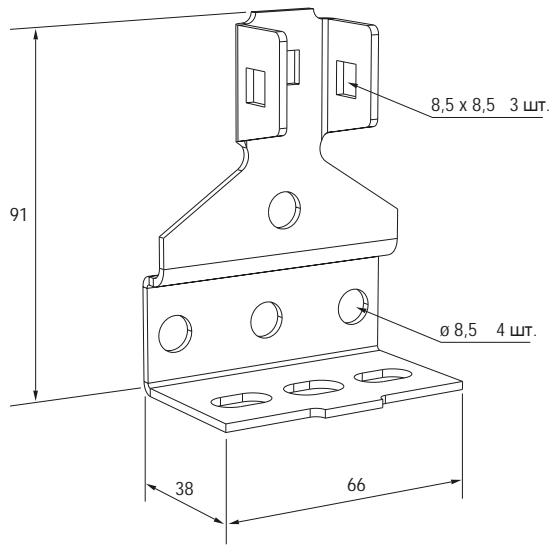
Use of adjustable ceiling bracket



Ceiling bracket RTF-Z is used when fixing to the ceiling cannot be done in exactly the right spot but threaded rod GT should be in a vertical position. The adjusting range of ceiling bracket RTF-Z is 92 mm.

INSTALLATION ACCESSORIES

Suspension bracket PF



Contains one M8 x 35 lock bolt, and one M8 nut / product

Product	SSTL number	Package pc	Weight kg/100 pcs
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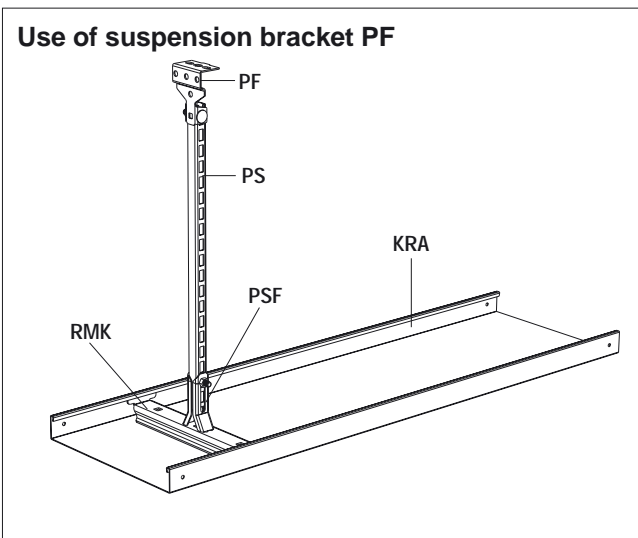
Hot galvanised metal sheet

PF	14 316 29	10	9
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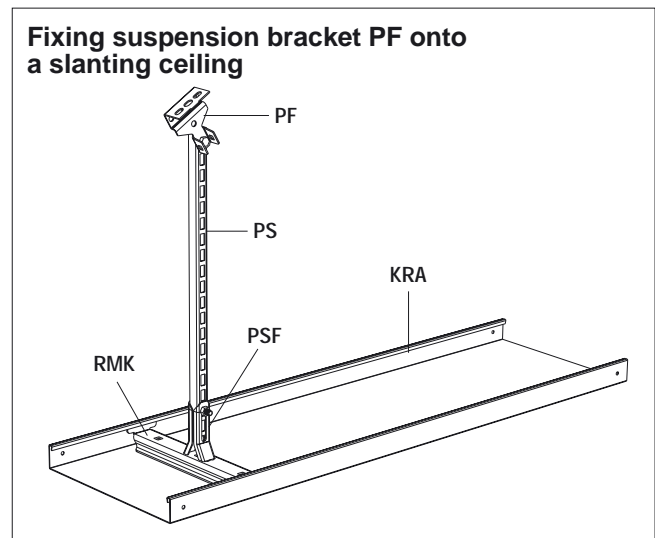
Hot galvanised and painted metal sheet

PF M	14 316 30	10	9
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Installation examples



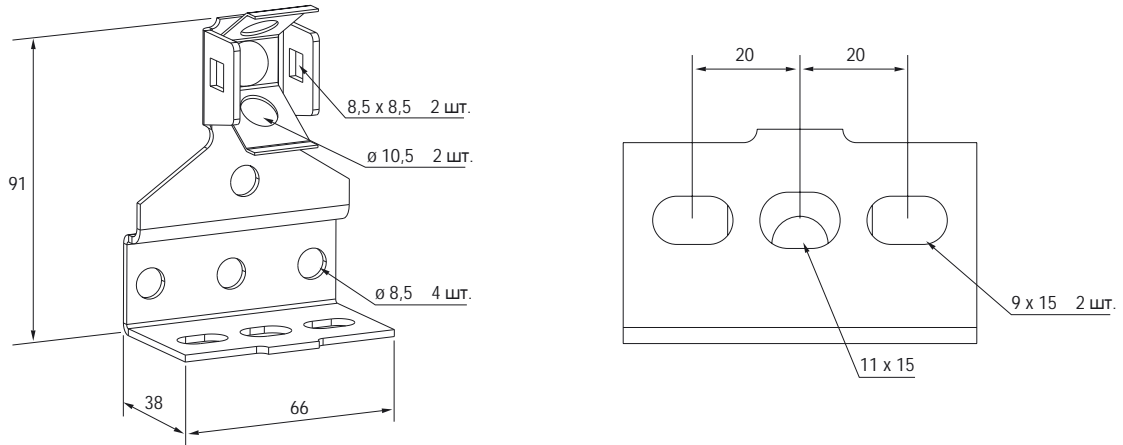
Suspension bracket PF is used to fix supportive rail PS to the ceiling. Suspension bracket PF is fixed to supportive rail PS with the bolt set provided.



If the ceiling is slanted, fix suspension bracket PF onto supportive rail PS as shown.

INSTALLATION ACCESSORIES

Adjustable suspension bracket RPF



Product	SSTL number	Package pc	Weight kg/100 pcs
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Hot galvanised metal sheet

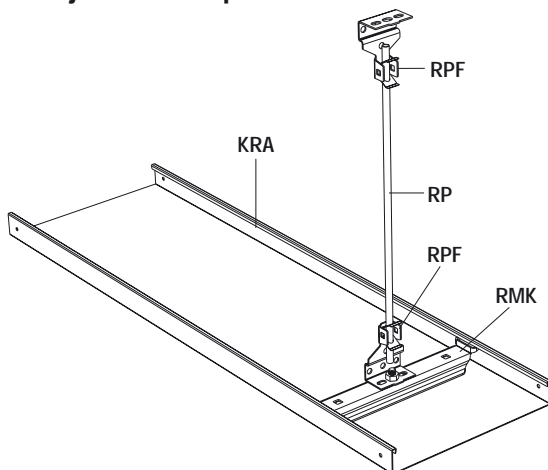
RPF	14 316 34	10	10
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Hot galvanised and painted metal sheet

RPF M	14 316 35	10	10
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Installation example

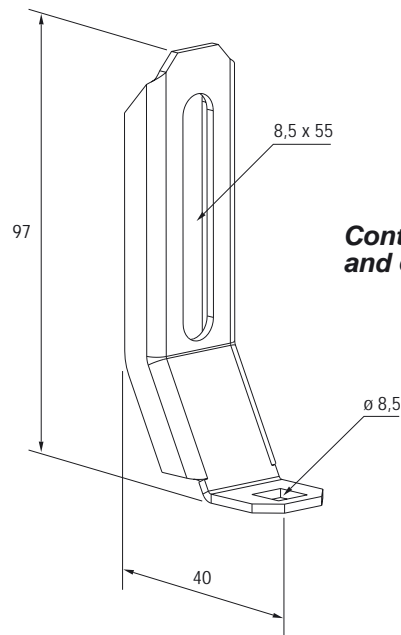
Use of adjustable suspension bracket



The adjustable suspension bracket RPF is used when threaded rod GT-10 or suspension tube RP need slight adjustments. Adjustable suspension bracket RPF is fixed onto intermediate bracket RMK with bolt set SVK.

INSTALLATION ACCESSORIES

Bracket PSF



Contains one M8 x 35 lock bolt, and one M8 nut / product

Product	SSTL number	Package pc	Weight kg/100 pcs
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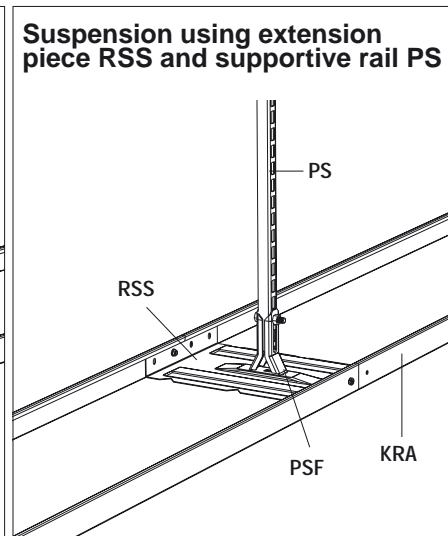
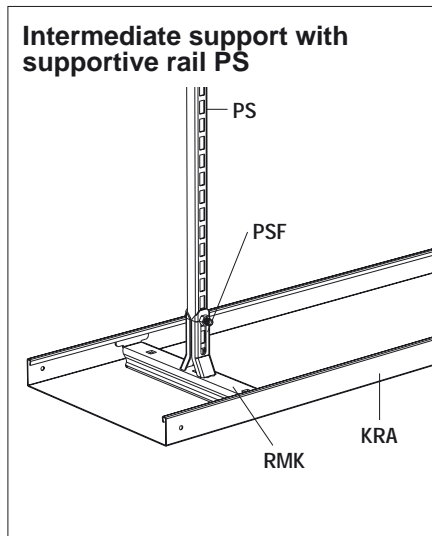
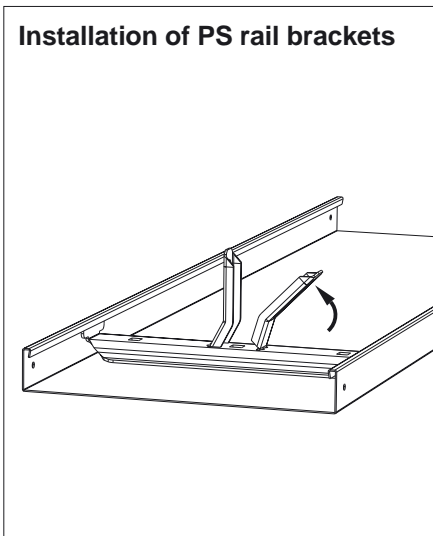
Hot galvanised metal sheet

PSF	14 316 44	20	5
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Hot galvanised and painted metal sheet

PSF M	14 316 45	20	5
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Installation examples

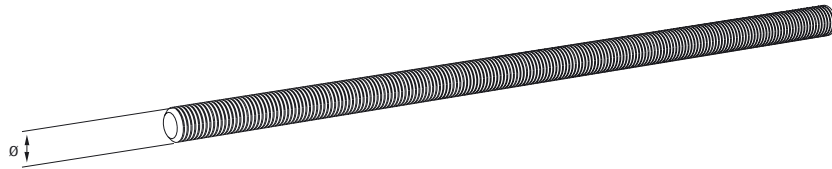


Push lower end of PS rail bracket into fixing slot of intermediate bracket RMK or extension piece RSS. Turn brackets to a vertical positions. Push supportive rail between the brackets and fix with the bolt set provided.

Fix PS rail brackets PSF onto extension piece RSS. Fix supportive rail PS onto brackets with bolt set provided.

INSTALLATION ACCESSORIES

Threaded rod GT



Product	SSTL number	Package m	Weight kg/100 m	Thread	Length mm
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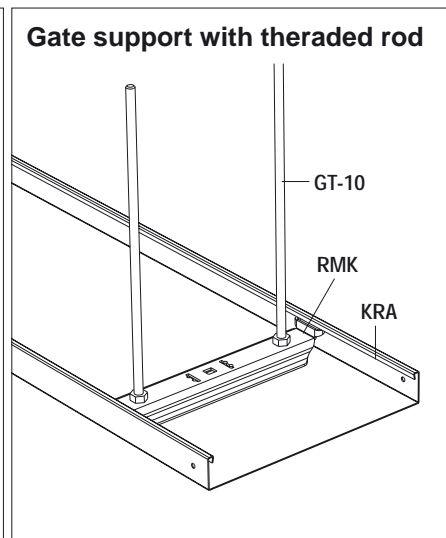
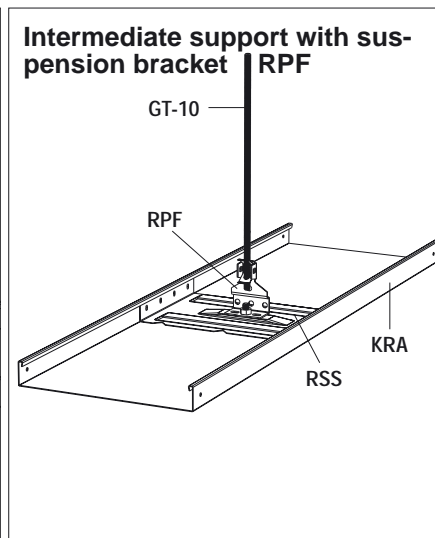
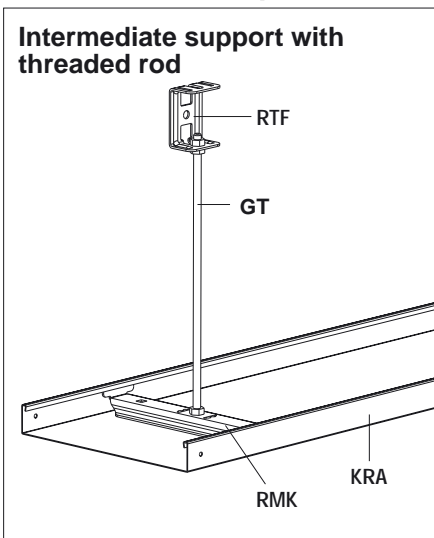
Zinc electroplated

GT-10	14 496 50	50	50	M10	2000
GT-16	14 496 51	20	130	M16	2000

Hot dip galvanising after manufacture

GT-10 ZNK	14 491 60	50	50	M10	2000
GT-16 ZNK	14 491 61	20	130	M16	2000

Installation examples



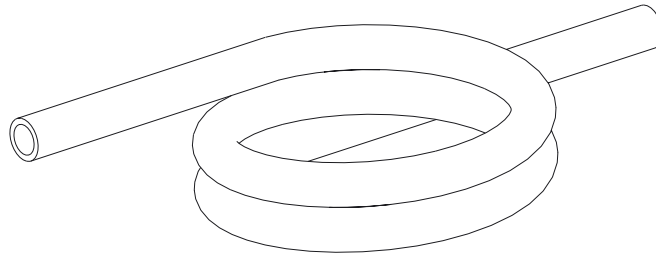
Threaded rod GT is used in a ceiling suspension together with intermediate bracket RMK and ceiling bracket RTF. The threaded rod is fixed onto the intermediate bracket and ceiling bracket with two nuts.

Adjustable suspension bracket RPF is used when threaded rod GT-10 needs slight adjusting. Nuts are not needed for fixing.

Threaded rods GT-10 and intermediate bracket RMK can be used to build a gate support. Threaded rods are fixed onto the intermediate bracket with M10 nuts.

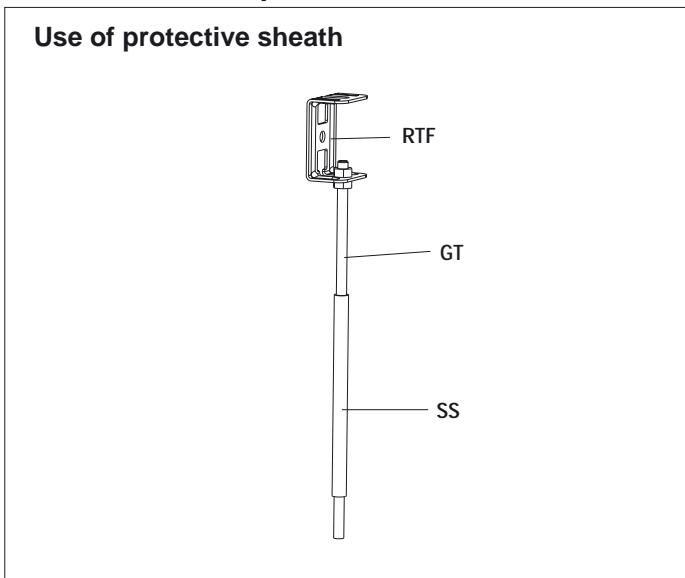
INSTALLATION ACCESSORIES

Protective sheath SS



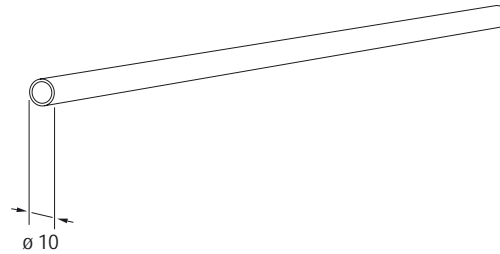
Product	SSTL number	Package m	Weight kg/100 m	Ø mm
Plastic, white				
SS-10	14 318 00	100	3	10
SS-16	14 318 01	100	5	16

Installation example



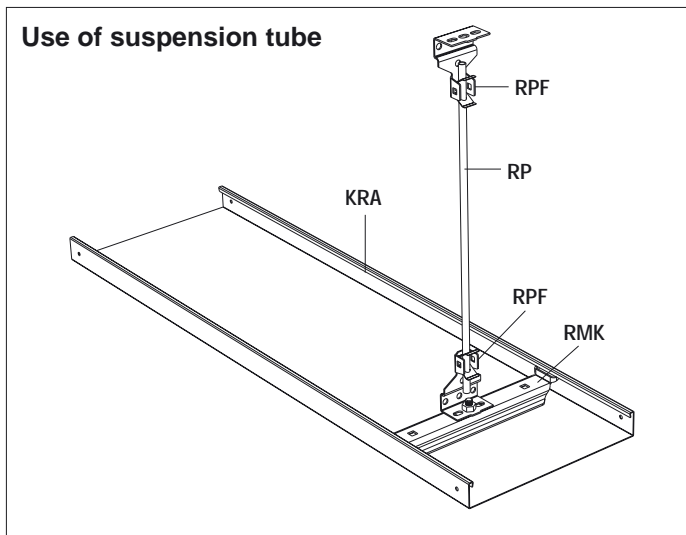
If a threaded rod should be white, protective sheath SS is used to cover the rod.

Suspension tube RP



Product	SSTL number	Package m	Weight kg/100 m	Length mm
Hot galvanised metal sheet				
RP	14 317 94	32	22	2000
Hot galvanised and painted metal sheet				
RP M	14 317 95	32	22	2000

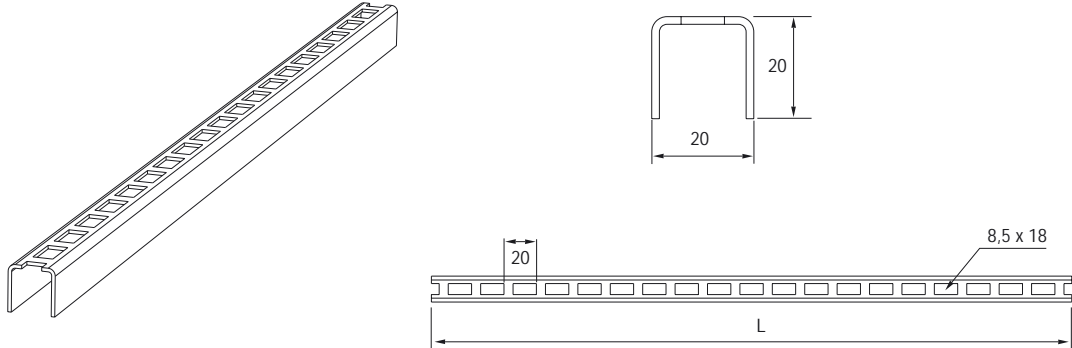
Installation example



Suspension tubes RP are used in a ceiling suspension together with adjustable suspension brackets RPF, when slight adjusting is required.

INSTALLATION ACCESSORIES

Supportive rail PS



Product	SSTL number	Package m	Weight kg/100 m	L mm
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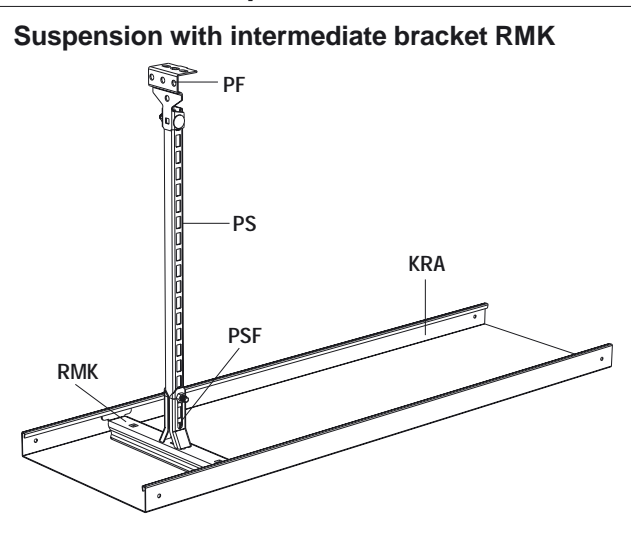
Hot galvanised metal sheet

PS	14 316 39	27	60	3000
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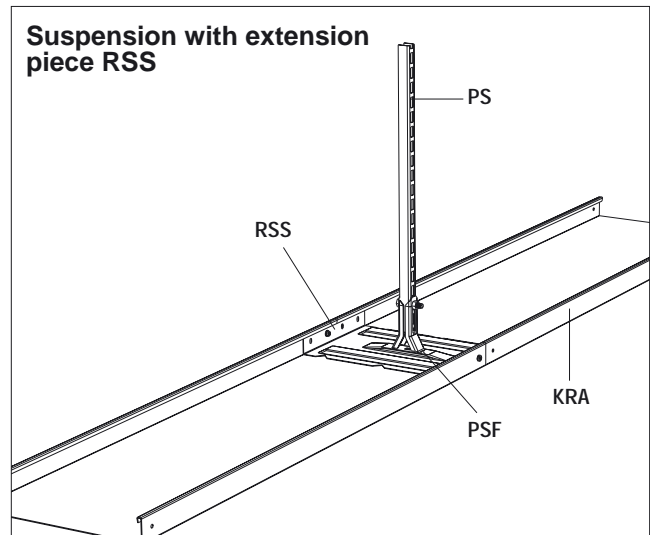
Hot galvanised and painted metal sheet

PS M	14 316 40	48	60	3000
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Installation examples



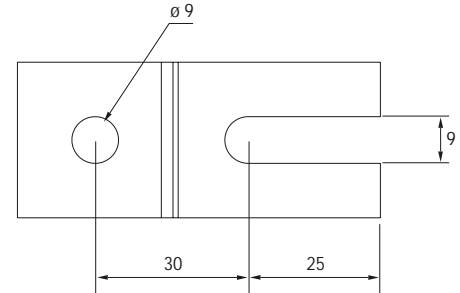
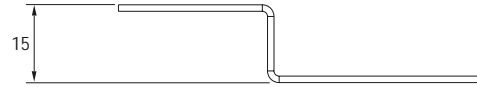
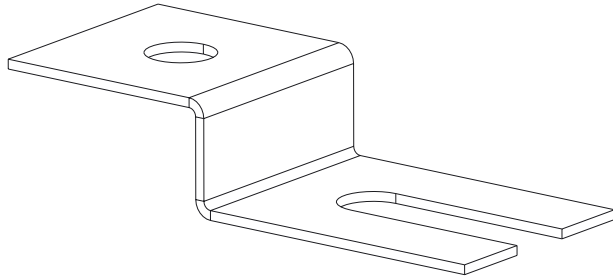
An extremely sturdy intermediate suspension can be built using PS rail and PF bracket.



A cable tray can be suspended directly from extension piece RSS as shown.

INSTALLATION ACCESSORIES

Lighting bracket AF/KRV



**Contains one M8 x 12 lock bolt,
and one M8 nut / product**

Product	SSTL number	Package pc	Weight kg/100 pcs
---------	-------------	------------	-------------------

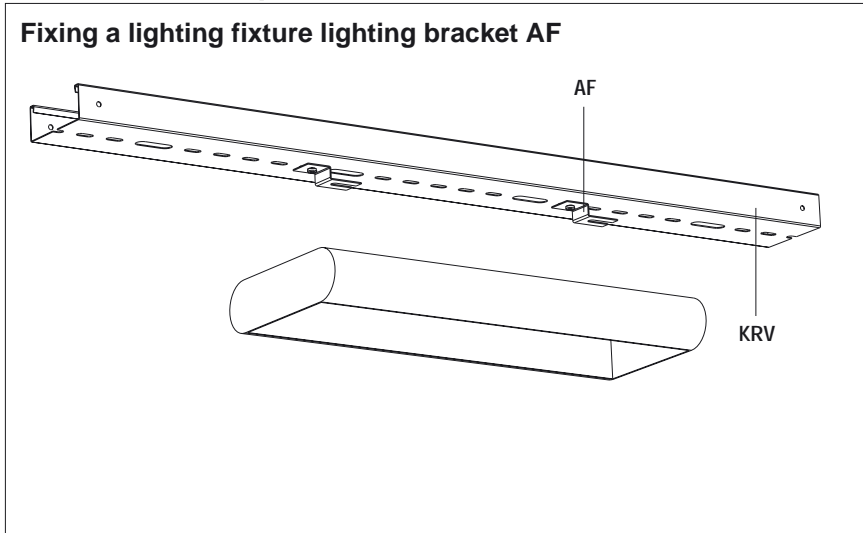
Hot galvanised metal sheet

AF/KRV	14 317 50	20	3
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Hot galvanised and painted metal sheet

AF M/KRV	14 317 51	20	3
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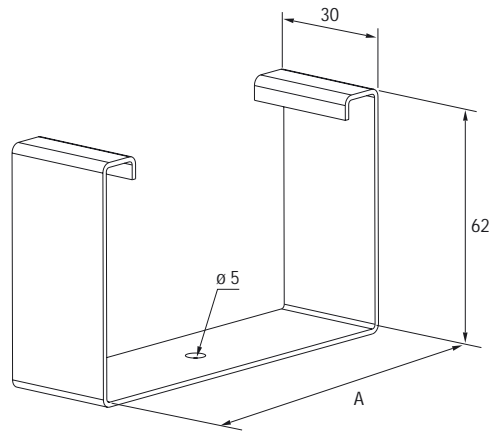
Installation example



Fix lighting brackets AF/KRV onto the holes at the bottom of lighting track KRV with the bolt set provided. Fix the lighting fixture to the slots in the lighting brackets. Lighting brackets AF/KRV are used for light weight lamps.

INSTALLATION ACCESSORIES

Lighting support AH/KRV



Product	SSTL number	Package pc	Weight kg/100 pcs	A mm
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Hot galvanised metal sheet

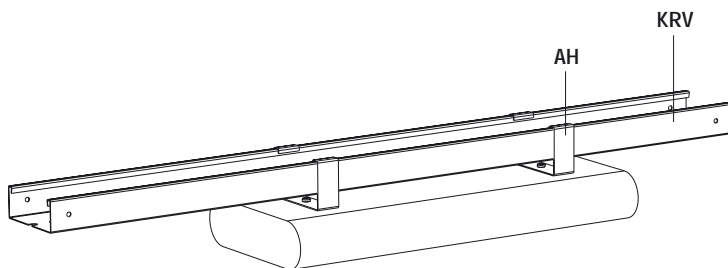
AH-50/KRV	14 317 55	20	5	51
AH-100/KRV	14 317 56	20	8	101
AH-200/KRV	14 317 57	20	10	201

Hot galvanised and painted metal sheet

AH-50 M/KRV	14 317 61	20	5	51
AH-100 M/KRV	14 317 62	20	8	101
AH-200M /KRV	14 317 63	20	10	201

Installation example

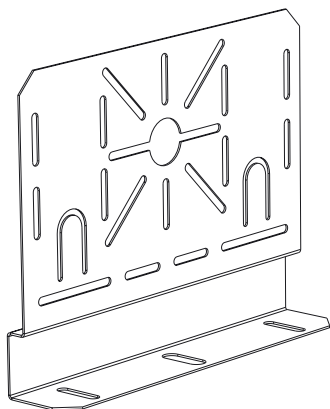
Fixing a lighting fixture with lighting support AH



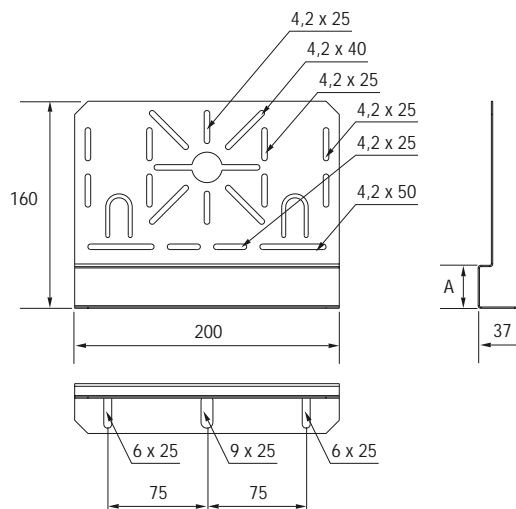
Fix lighting support AH to a lighting fixture. Lift the lighting fixture. Lift the lighting fixture complete with support to a lighting track. The lighting fixture can be easily moved along the lighting track to another location.

INSTALLATION ACCESSORIES

Coupling plate RDP



Contains 2 pcs. M5 x 8 phillips screws,
and 2 pcs. M5 collar nuts / product



Product

**SSTL
number**

**Package
pc**

**Weight
kg/100 pcs**

**A
mm**

Hot galvanised metal sheet

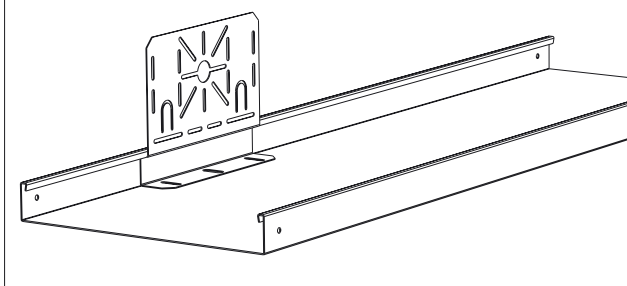
RDP	14 316 49	10	28	31
RDP-60	14 327 49	10	31	51
RDP-80	14 327 50	10	35	70
RDP-110	14 327 51	10	40	100

Hot galvanised and painted metal sheet

RDPM	14 316 50	10	28	31
RDP-60M	14 327 52	10	31	51
RDP-80M	14 327 53	10	35	70
RDP-110M	14 327 54	10	40	100

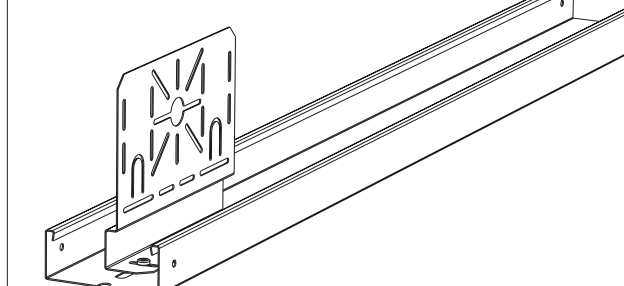
Installation example

Use of coupling plate on a sheet shelf



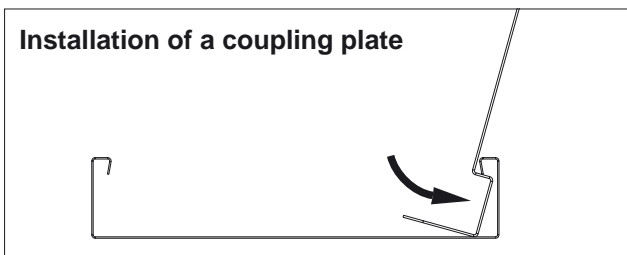
Coupling plate RDP is used in the cable tray system as a surface to which mounting boxes can be fixed.

Use of coupling plate on a lighting track



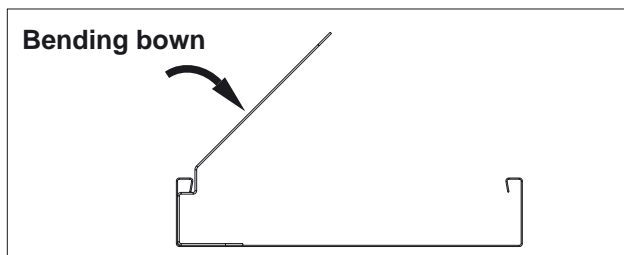
Coupling plate RDP is used in the lighting track system as a surface to which mounting boxes can be fixed. The coupling plate is fixed into the centre.

Installation of a coupling plate



Remove the protective plastic from the adhesive tape in the coupling plate. Place coupling plate RDP under the bent edge. The tape on the coupling plate RDP fixes onto the cable tray. If necessary, coupling plate RDP can also be fixed with bolts onto the cable tray.

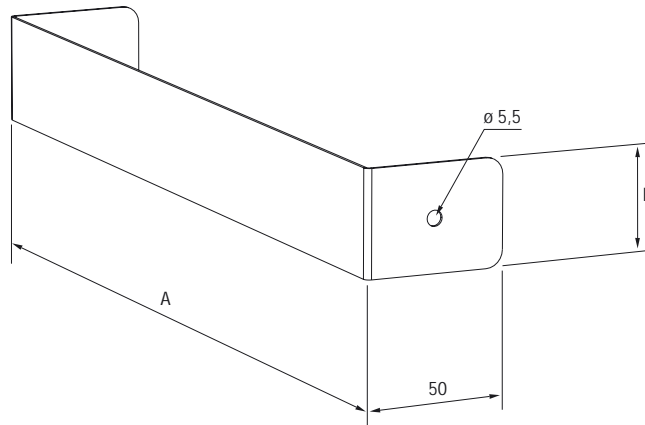
Bending down



After boxes and cables have been installed, coupling plate RVD can be bent down at the lightning perforation.

INSTALLATION ACCESSORIES

End piece P/KRA



Contains 2 pcs. M5 x 8 bolts, and 2 pcs. M5 nuts / product

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm
---------	-------------	------------	-------------------	------	------

Hot galvanised metal sheet

P-50/KRA	14 317 70	10	5	48	40
P-100/KRA	14 317 71	10	6	98	40
P-200/KRA	14 317 72	10	9	198	40
P-300/KRA	14 317 73	10	12	297	40
P-400/KRA	14 317 74	10	15	397	40
P-500/KRA	14 317 75	10	18	497	40
P-600/KRA	14 317 76	10	21	597	40

Hot galvanised and painted metal sheet

P-50 M/KRA	14 317 80	10	5	48	40
P-100 M/KRA	14 317 81	10	6	98	40
P-200 M/KRA	14 317 82	10	9	198	40
P-300 M/KRA	14 317 83	10	12	297	40
P-400 M/KRA	14 317 84	10	15	397	40
P-500 M/KRA	14 317 85	10	18	497	40
P-600 M/KRA	14 317 86	10	21	597	40

Hot galvanised metal sheet

P-100-60/KRA	14 326 71	10	9	98	60
P-200-60/KRA	14 326 72	10	14	198	60
P-300-60/KRA	14 326 73	10	18	297	60
P-400-60/KRA	14 326 74	10	23	397	60
P-500-60/KRA	14 326 75	10	28	497	60
P-600-60/KRA	14 326 76	10	32	597	60

Hot galvanised and painted metal sheet

P-100-60M/KRA	14 326 81	10	9	98	60
P-200-60M/KRA	14 326 82	10	14	198	60
P-300-60M/KRA	14 326 83	10	18	297	60
P-400-60M/KRA	14 326 84	10	23	397	60
P-500-60M/KRA	14 326 85	10	28	497	60
P-600-60M/KRA	14 326 86	10	32	597	60

INSTALLATION ACCESSORIES

Product	SSTL number	Package pc	Weight kg/100 pcs	A mm	B mm
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Hot galvanised metal sheet

P-100-80/KRA	14 326 91	10	13	98	80
P-200-80/KRA	14 326 92	10	19	198	80
P-300-80/KRA	14 326 93	10	25	297	80
P-400-80/KRA	14 326 94	10	31	397	80
P-500-80/KRA	14 326 95	10	37	497	80
P-600-80/KRA	14 326 96	10	44	597	80

Hot galvanised and painted metal sheet

P-100-80M/KRA	14 327 01	10	13	98	80
P-200-80M/KRA	14 327 02	10	19	198	80
P-300-80M/KRA	14 327 03	10	25	297	80
P-400-80M/KRA	14 327 04	10	31	397	80
P-500-80M/KRA	14 327 05	10	37	497	80
P-600-80M/KRA	14 327 06	10	44	597	80

Hot galvanised metal sheet

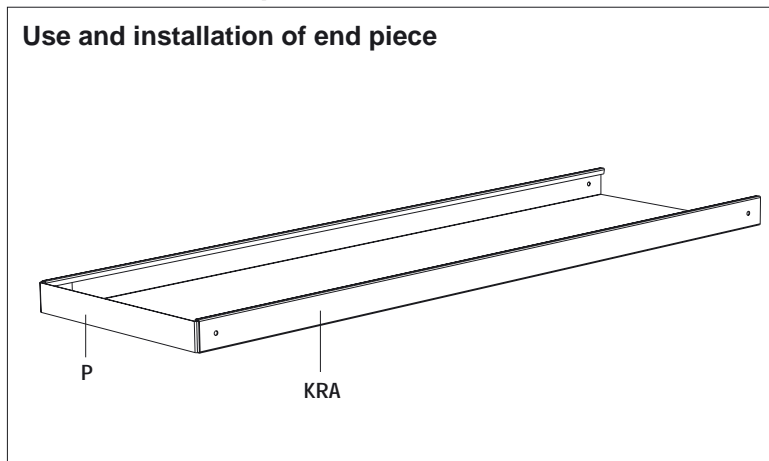
P-100-110/KRA	14 327 11	10	17	98	110
P-200-110/KRA	14 327 12	10	26	198	110
P-300-110/KRA	14 327 13	10	35	297	110
P-400-110/KRA	14 327 14	10	43	397	110

Hot galvanised and painted metal sheet

P-100-110M/KRA	14 327 21	10	17	98	110
P-200-110M/KRA	14 327 22	10	26	198	110
P-300-110M/KRA	14 327 23	10	35	297	110
P-400-110M/KRA	14 327 24	10	43	397	110

Installation example

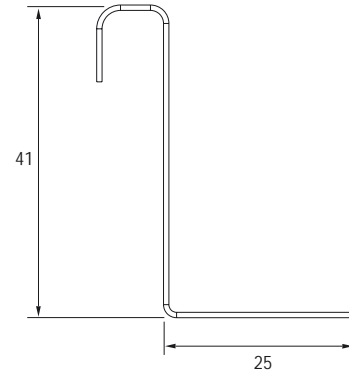
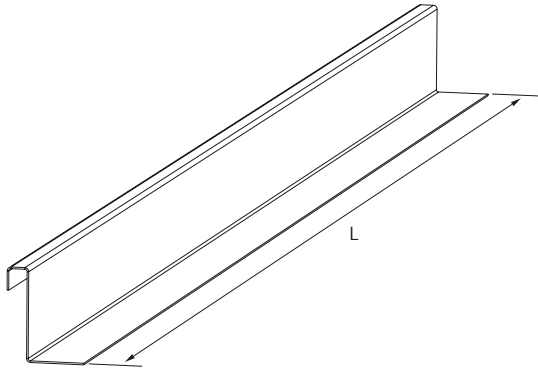
Use and installation of end piece



End piece P is used as a shield when the end of a cable tray is not against a wall. End piece P is pushed inside a cable tray and fixed with the bolts provided.

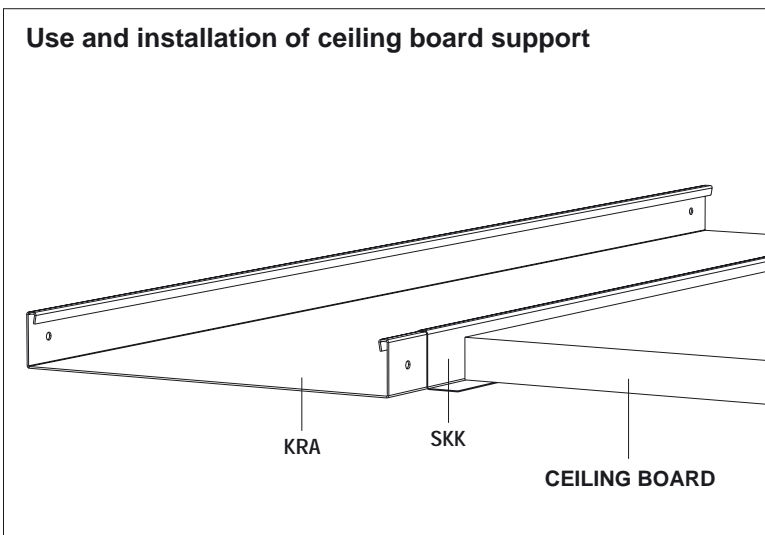
INSTALLATION ACCESSORIES

Ceiling board support SKK



Product	SSTL number	Package pc	Weight kg/100 pcs	L mm
Hot galvanised metal sheet				
SKK	14 317 10	5	138	3000
Hot galvanised and painted metal sheet				
SKK M	14 317 11	5	138	3000

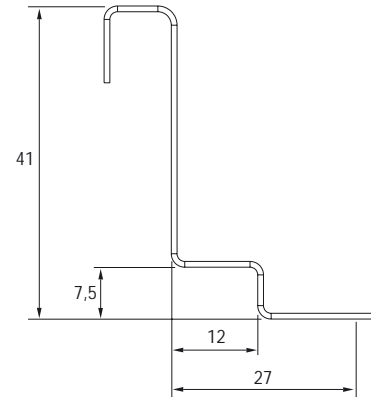
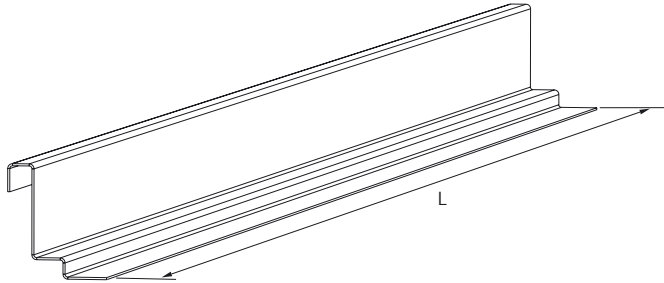
Installation example



Ceiling board support SKK is used together with a cable tray to support a ceiling board. Ceiling board support SKK is fixed to the top of the cable tray edge.

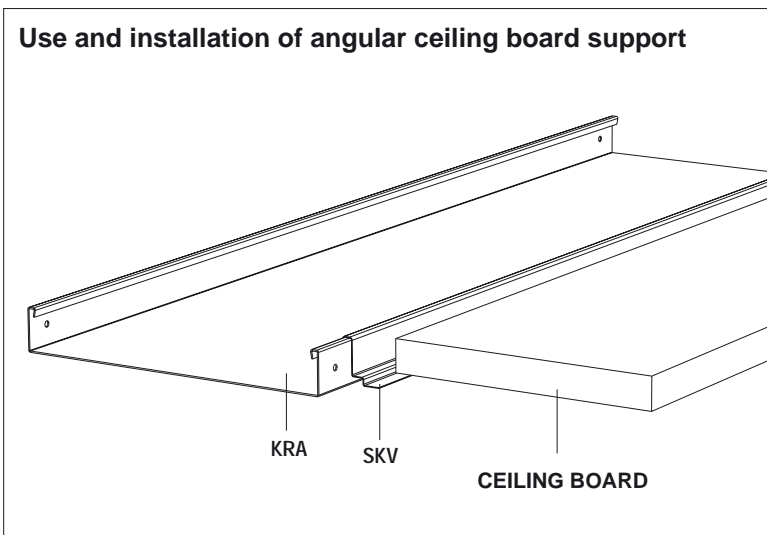
INSTALLATION ACCESSORIES

Angular ceiling board support SKV



Product	SSTL number	Package pc	Weight kg/100 pcs	L mm
Hot galvanised metal sheet				
SKV	14 317 16	4	147	3000
Hot galvanised and painted metal sheet				
SKV M	14 317 17	4	147	3000

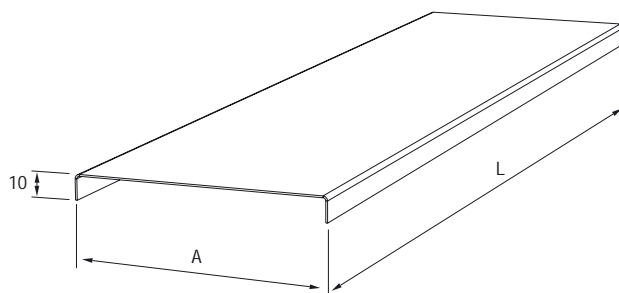
Installation example



Angular ceiling board support SKV is used together with a cable tray to support a ceiling board. Angular ceiling board support SKV is fixed to the top of the cable tray edge.

COVERS

Cover plate KRL



Product	SSTL number	Package m	Weight kg/100 m	A mm	L mm
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Hot galvanised metal sheet, length 2 m

KRL-50 L=2000	14 316 90	40	56	51	2000
KRL-100 L=2000	14 316 91	40	96	101	2000
KRL-200 L=2000	14 316 92	40	176	201	2000
KRL-300 L=2000	14 316 93	40	256	301	2000
KRL-400 L=2000	14 316 94	40	336	401	2000
KRL-500 L=2000	14 316 95	40	416	501	2000
KRL-600 L=2000	14 316 96	40	496	601	2000

Hot galvanised and painted metal sheet, length 2 m

KRL-50M L=2000	14 317 00	40	56	51	2000
KRL-100M L=2000	14 317 01	40	96	101	2000
KRL-200M L=2000	14 317 02	40	176	201	2000
KRL-300M L=2000	14 317 03	40	256	301	2000
KRL-400M L=2000	14 317 04	40	336	401	2000
KRL-500M L=2000	14 317 05	40	416	501	2000
KRL-600M L=2000	14 317 06	40	496	601	2000

Hot galvanised metal sheet, length 3 m

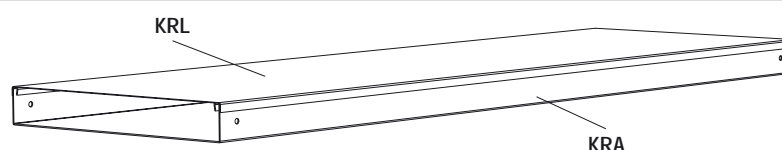
KRL-50 L=3000	14 318 20	60	56	51	3000
KRL-100 L=3000	14 318 21	60	96	101	3000
KRL-200 L=3000	14 318 22	60	176	201	3000
KRL-300 L=3000	14 318 23	60	256	301	3000
KRL-400 L=3000	14 318 24	60	336	401	3000
KRL-500 L=3000	14 318 25	60	416	501	3000
KRL-600 L=3000	14 318 26	60	496	601	3000

Hot galvanised and painted metal sheet, length 3 m

KRL-50M L=3000	14 318 30	60	56	51	3000
KRL-100M L=3000	14 318 31	60	96	101	3000
KRL-200M L=3000	14 318 32	60	176	201	3000
KRL-300M L=3000	14 318 33	60	256	301	3000
KRL-400M L=3000	14 318 34	60	336	401	3000
KRL-500M L=3000	14 318 35	60	416	501	3000
KRL-600M L=3000	14 318 36	60	496	601	3000

Installation example

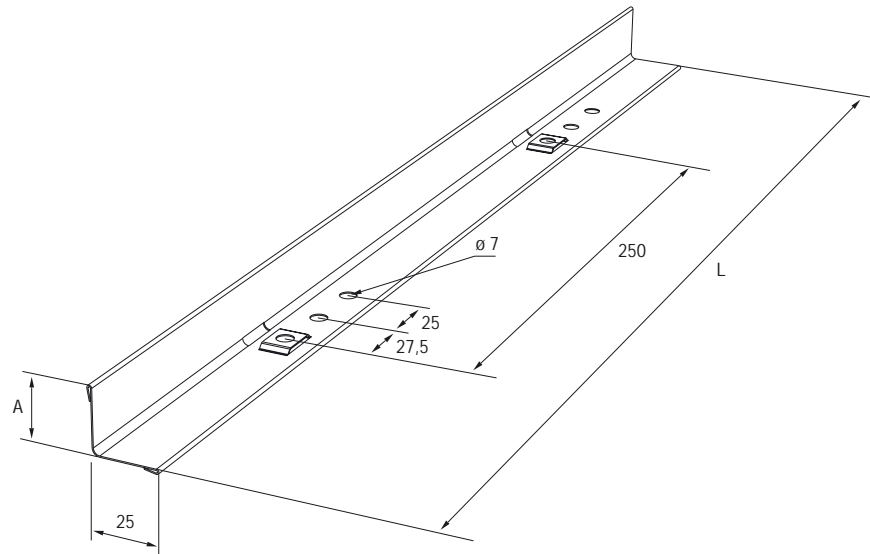
Use of cable tray cover plate



Cover plate KRL is used to prevent dirt and dust from gathering inside a cable tray, and as a shield.

INSTALLATION ACCESSORIES

Seperation plate AP



Product	SSTL number	Package pc	Weight kg/100 pcs	L mm	A mm
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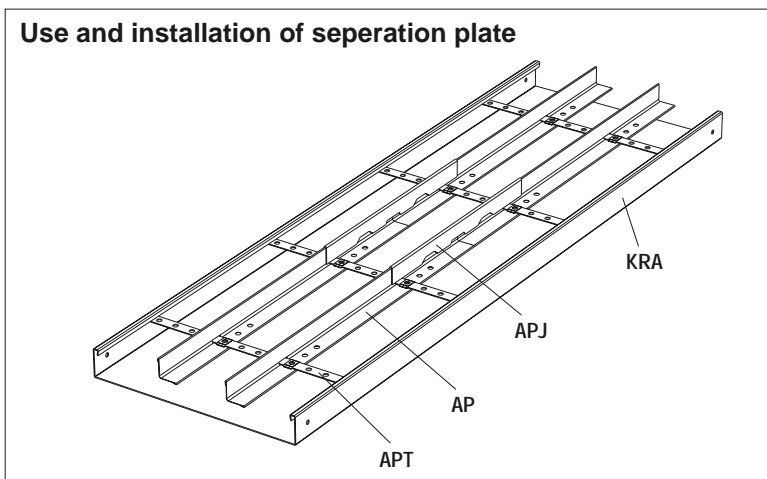
Hot galvanised metal sheet

AP L=1750	14 497 18	10	42	1750	25
AP L=2750	14 497 10	10	66	2750	25
AP-60 L=2000	14 327 37	10	64	2000	45
AP-80 L=2000	14 327 38	10	80	2000	65
AP-110 L=2000	14 327 39	10	104	2000	95

Hot galvanised and painted metal sheet

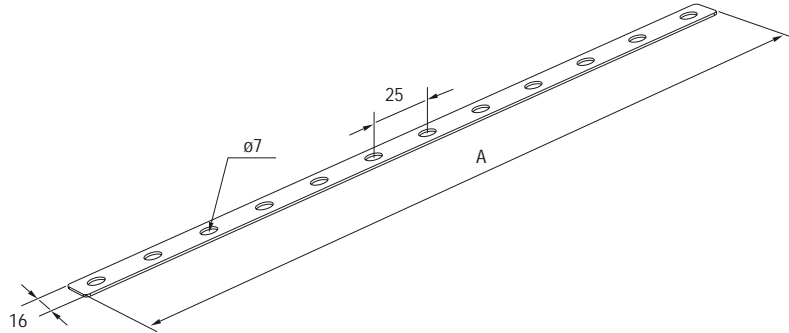
AP M L=1750	14 316 55	10	42	1750	25
AP M L=2750	14 316 60	10	66	2750	25
AP-60 M L=2000	14 327 40	10	64	2000	45
AP-80 M L=2000	14 327 41	10	80	2000	65
AP-110 M L=2000	14 327 42	10	104	2000	95

Installation example



Seperation plate AS is used to separate low current and power supply cables from one another. Seperation plate AP is fixed onto a cable tray using seperation plate brackets APT.

Seperation plate bracket APT

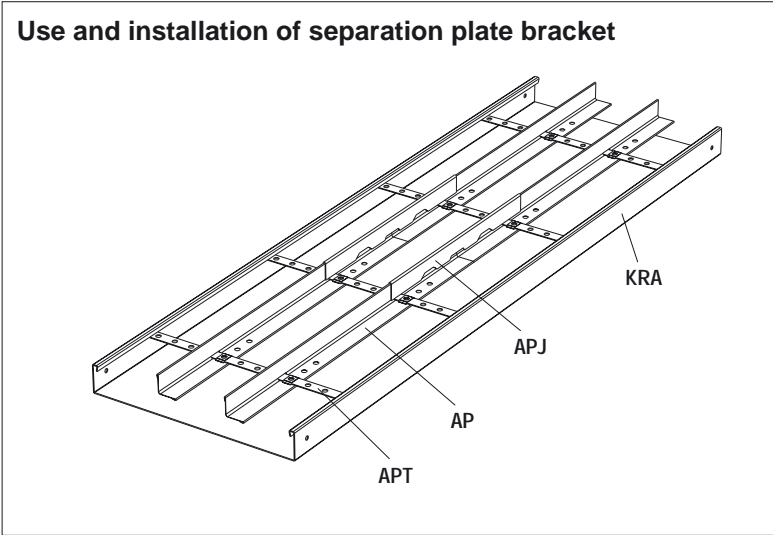


Product	SSTL number	Package pc	Weight kg/100 pcs	A mm
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Hot galvanised metal sheet

APT-100	14 316 71	10	2	96
APT-200	14 316 72	10	3	196
APT-300	14 316 73	10	4	296
APT-400	14 316 74	10	5	396
APT-500	14 316 75	10	6	496
APT-600	14 316 76	10	7	596

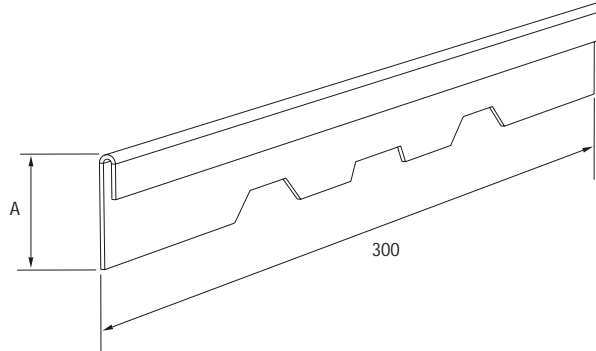
Installation example



Separation plate brackets APT are used for fixing plates AP onto a cable tray. Separation brackets APT are pushed through the slots in the separation plates.

INSTALLATION ACCESSORIES

Extension piece APJ



Product	SSTL number	Package pc	Weight kg/100 pcs	A mm
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Hot galvanised metal sheet

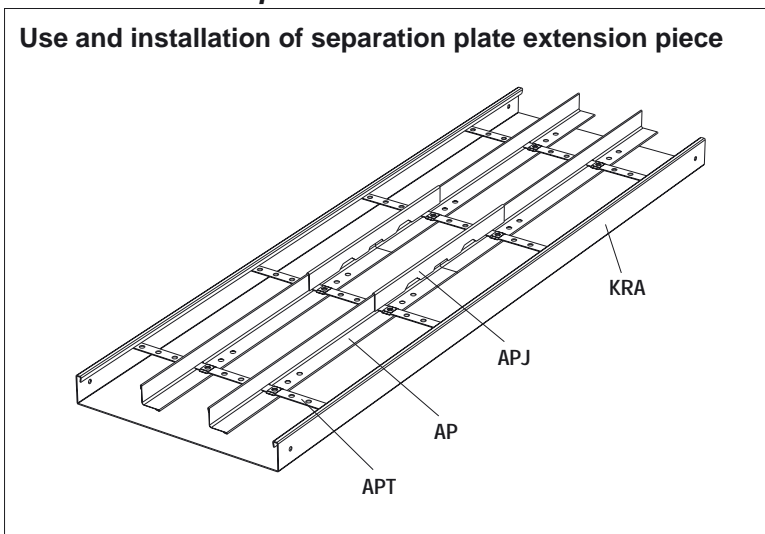
APJ	14 316 80	10	8	25
APJ-60	14 327 43	10	13	45
APJ-80	14 327 44	10	18	65
APJ-110	14 327 45	10	25	95

Hot galvanised and painted metal sheet

APJ M	14 316 81	10	8	25
APJ-60 M	14 327 46	10	13	45
APJ-80 M	14 327 47	10	18	65
APJ-110 M	14 327 48	10	25	95

Installation example

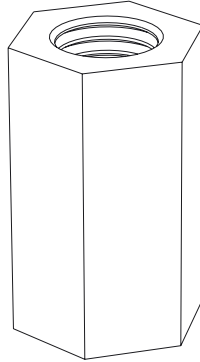
Use and installation of separation plate extension piece



Separation plate extension piece APJ is used to extend separation plates AP. The extension is pressed to the top of the edge in separation plates AP. Separation plate extension piece APJ can also be installed where there is a cable tray extension piece RSS.

BOLT SETS

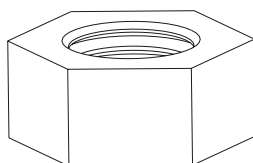
Extension nuts



<i>Product</i>	<i>SSTL number</i>	<i>Package pc</i>	<i>Weight kg/100 pcs</i>	<i>Thread</i>
Zinc electroplated				
JM M10	14 497 04	100	4	M10
JM M16	14 497 05	100	11	M16
Zinc electroplated and painted				
JM M10 M	14 317 46	100	4	M10
JM M16 M	14 317 47	100	11	M16

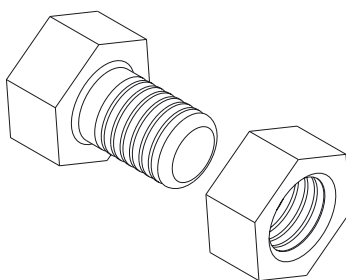
BOLT SETS

Nuts



<i>Product</i>	<i>SSTL number</i>	<i>Package pc</i>	<i>Weight kg/100 pcs</i>	<i>Thread</i>
Zinc electroplated				
MU M10	14 499 92	100	1	M10
MU M16	14 499 93	100	3	M16
Hot dip galvanised				
MU M10 ZNK	14 491 66	100	1	M10
MU M16 ZNK	14 491 67	100	3	M16
Zinc electroplated and painted				
MU M10 M	14 317 40	100	1	M10
MU M16 M	14 317 41	100	3	M16

Bolt sets



<i>Product</i>	<i>SSTL number</i>	<i>Package pc</i>	<i>Weight kg/100 pcs</i>	<i>Contents</i>
RS AF/KRV	14 317 30	20	2	M8 x 12 bolt + M8 nut
RS PSF	14 317 31	10	3	M8 x 35 lock bolt + M8 nut
RS RSS	14 317 32	40	1	M5 x 8 bolt + M5 nut
RS RSS M	14 317 33	40	1	M5 x 8 white bolt + M5 nut
RS SVK	14 317 34	10	3	M10 x 18 lock bolt + M10 nut

