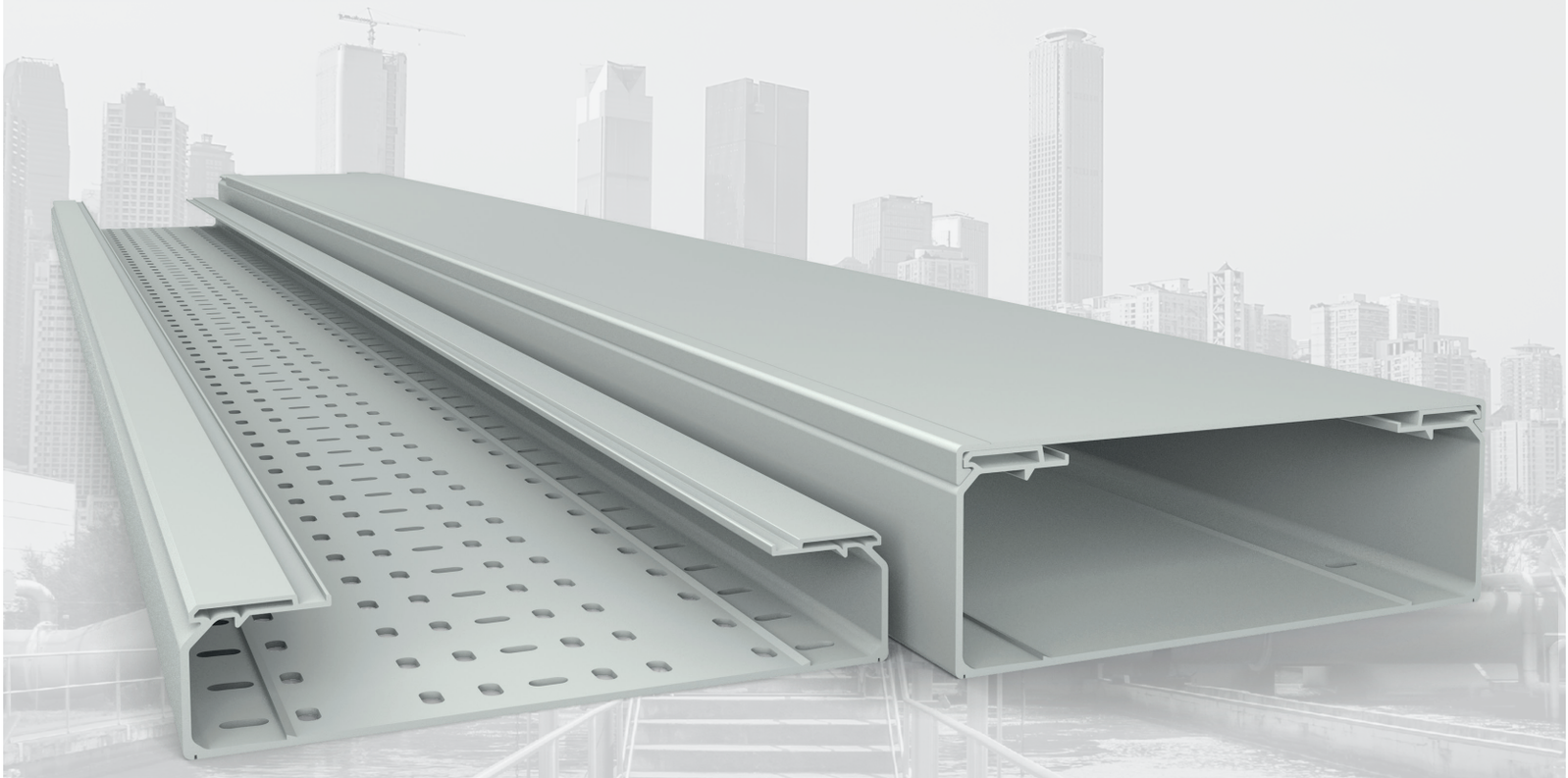
pemsa

INSULATING CABLE TRAYS SYSTEM

metatray®

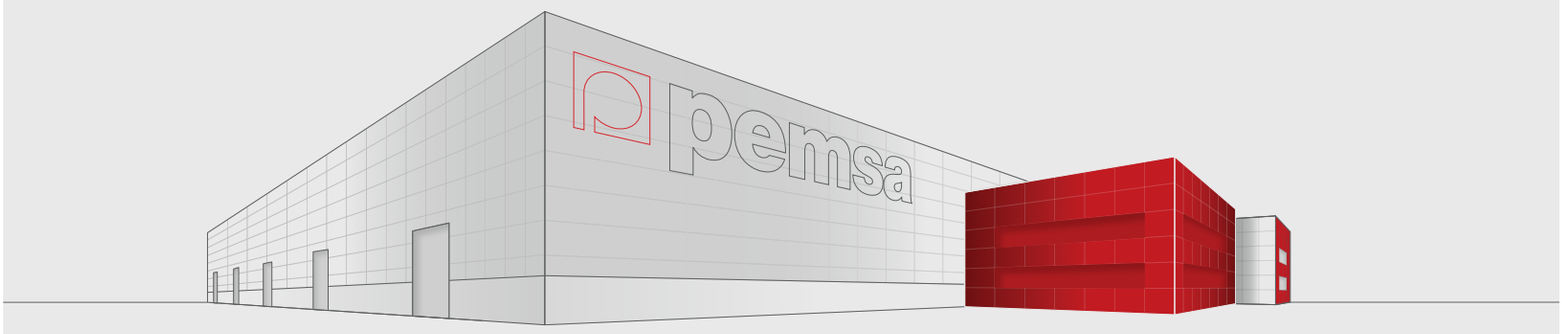
PRODUCT RANGE CATALOGUE



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metatray®



A **step forward** on insulating cable trays

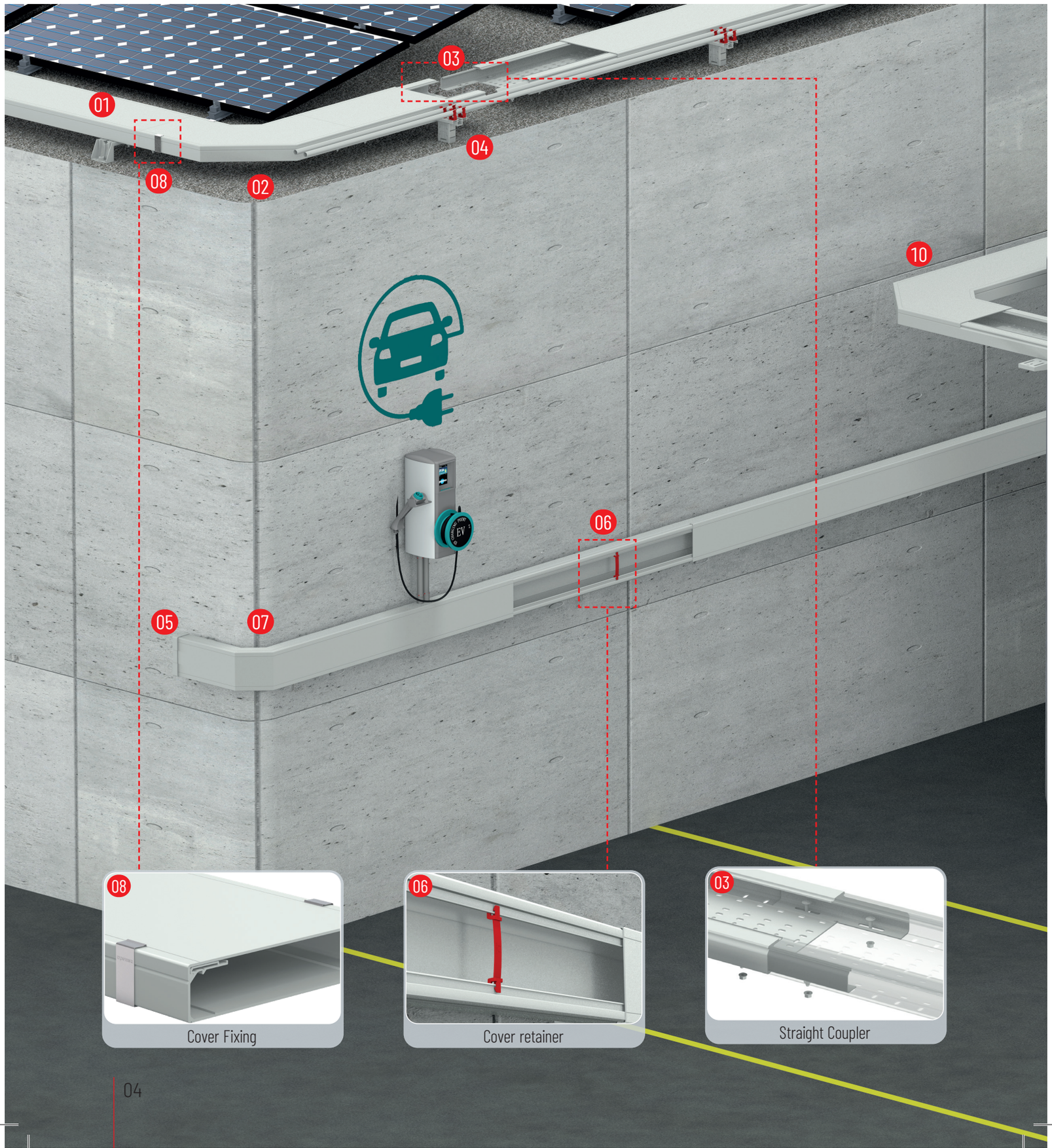
	metatray General assembly diagram	04-05
	metatray General features and application sectors. Differentiating features	06-07
	Selection Guide: Insulating cable trays, supports and accessories	08-09
	Product references and installation instructions	10-23
	Technical data and certifications	24-31
	Additional features	32
	Applications by sector	33

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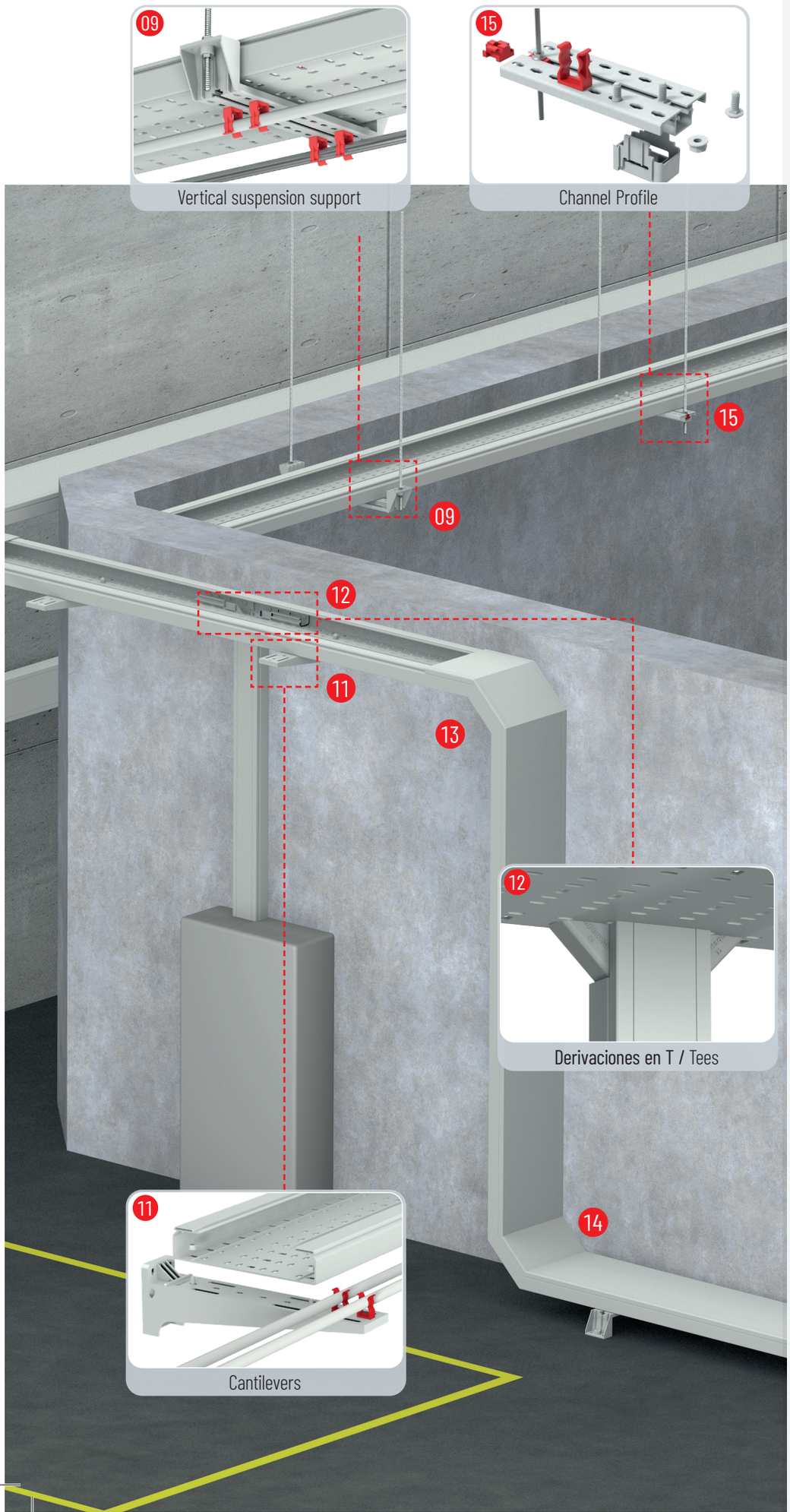
One step forward on insulating cable trays



Cover Fixing

Cover retainer

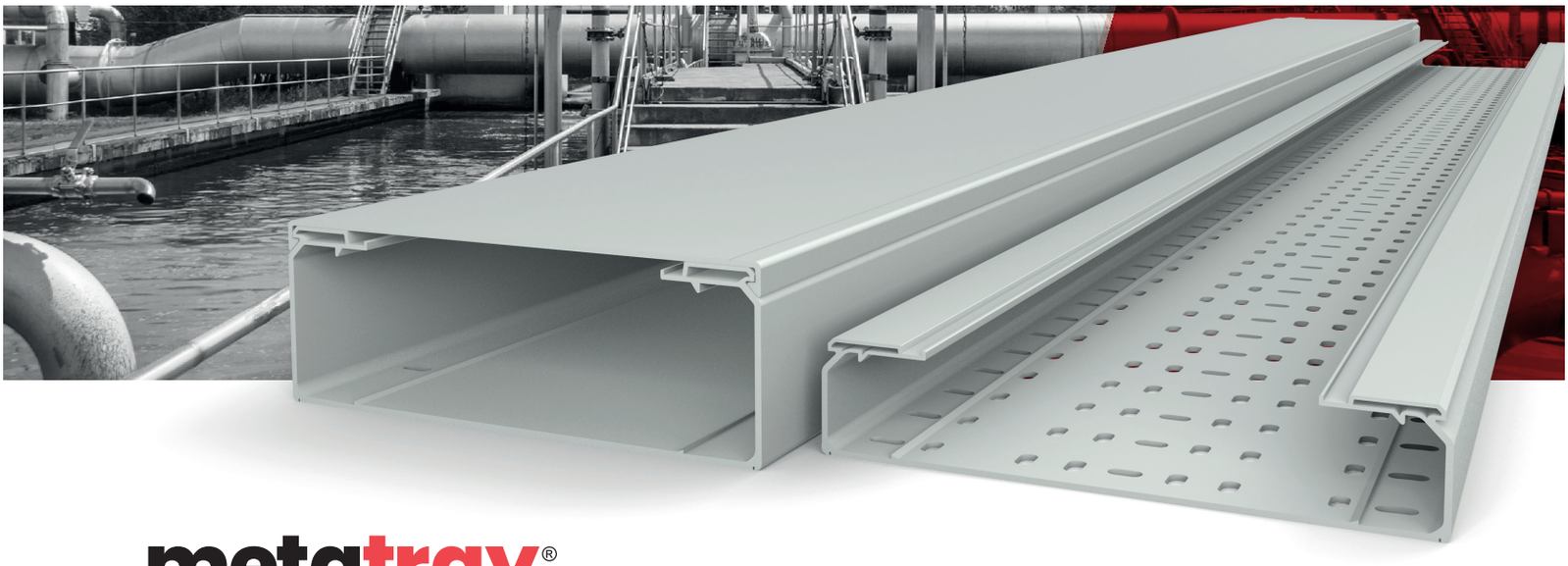
Straight Coupler



Quality marks and certifications

- IEC 61537 — International standard of cable trays
- EN 50085 — International standard of cable trunking
- AENOR N Mark
- CE conformity, directive 2014/35/UE
- CE mark
- UKCA conformity
- RoHS III — WEEE 2012/19/UE

01 10
02 20
03 12
04 18
05 22
06 16
07 12
08 14
09 16
10 20
11 16
12 22
13 22
14 20
15 18

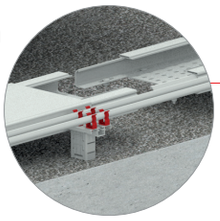


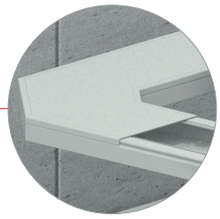
metatray®

Insulating perforated and solid cable trays

General features and application sectors

Wide range of accessories with a large number of applications





Maximum functionality and adaptability to different spaces and environments

Excellent performance in corrosive environments, weathering and radiation exposure

Insulating material. Electrical safety and reduced maintenance costs

Environmentally friendly. Recyclable material. Sustainable packaging

Patented system. Innovation and own product development



Renewable energies



Service and Retail construction



Water treatment



Electric vehicle

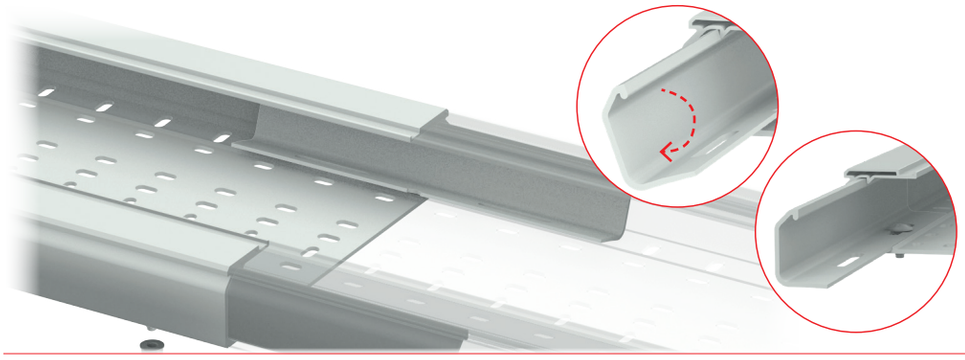


Marine Industry



Petrochemical Industry

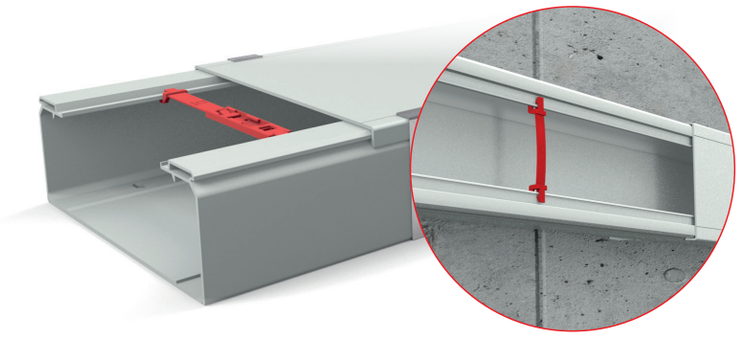
Differentiating features

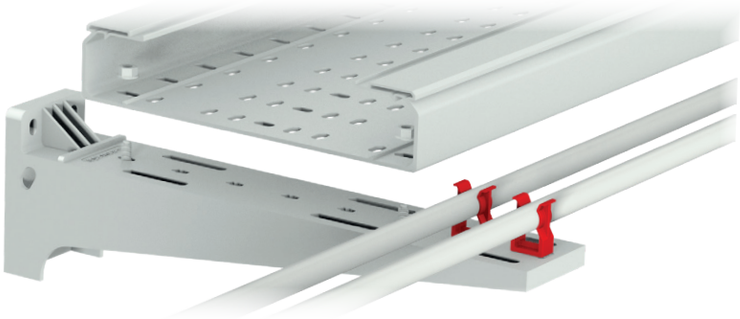


Snap-on and prefixed jointing system for quick connection

Cover retainer

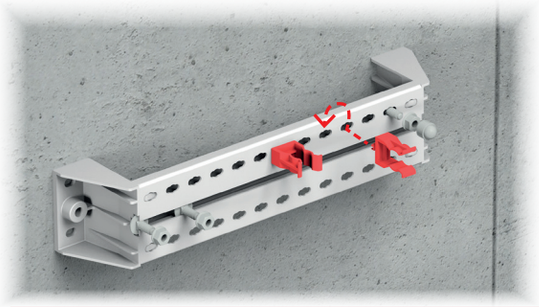
Prevents deformation due to temperature gradients and facilitates the removal/ assembly of the covers

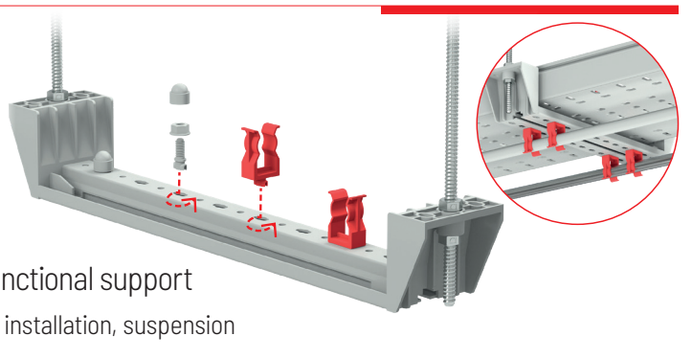




Cantilevers

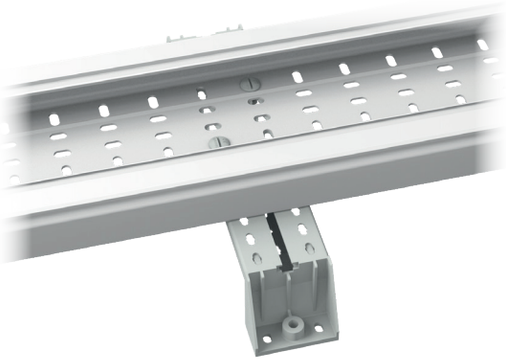
with perforations for Conduit Clips and Clip Joint Kits

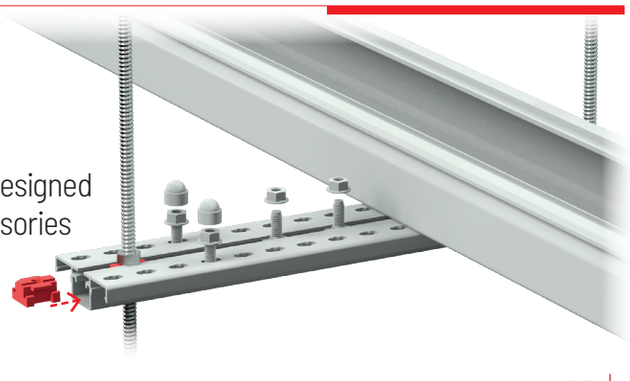




Multifunctional support

Vertical installation, suspension and floor installation + conduit fixing on the base

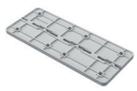


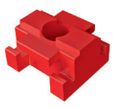


Channel designed to fit accesories

Selection Guide: Insulating cable trays, supports and accessories.

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				Joints				
								
		Perforated cable tray	Insulating solid cable tray	Coupler	Joint kit	Reinforced base joint	Corner joint	Vertical hinge
60	100	82003611	82003651	82003672	81000298	-	81000282	81000284
	150	82003642	82003652					
	200	82003643	82003653					
	300	82003644	82003654					
	400	82003645	82003655			81000290		
100	200	82003646	82003656	82003673		-	81000283	81000285
	300	82003647	82003657					
	400	82003648	82003658			81000290		
	500	82003649	82003659					
	600	82003650	82003660					
		10	11	12	12	12	12	14

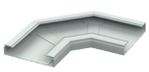
				Supports		Assembly		
								
		Perforated cable tray	Insulating solid cable tray	Channel	Elevating foot	Strut plug	Clip joint	Insulating protector
60	100	82003611	82003651	L=1 m 82003670	81000294	81000295	81000297	81000401
	150	82003642	82003652					
	200	82003643	82003653					
	300	82003644	82003654					
	400	82003645	82003655					
100	200	82003646	82003656	L= 2m 82003671				
	300	82003647	82003657					
	400	82003648	82003658					
	500	82003649	82003659					
	600	82003650	82003660					
		10	11	18	18	18	18	18

Selection Guide: Insulating cable trays, supports and accessories.

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Joints	Supports		Assembly				
 Riser/dropper	 Cantilever	 Suspension vertical support	 Cover	 Cover fixing	 Cover retainer	 Divider	 Conduit fixing clip
81000286	81000270	82003674	82003663	81000296	81000351	82003661	DN16 81000277
	81000271	82003675	82003664		81000291		DN20 81000278
	81000272	82003676	82003665		81000292		DN25 81000279
	81000273	82003677	82003666		81000292		DN32 81000280
	81000274	82003678	82003667		81000293		DN40 81000281
81000287	81000272	82003676	82003665	81000311	81000292	82003662	DN16 81000277
	81000273	82003677	82003666		81000292		DN20 81000278
	81000274	82003678	82003667		81000293		DN25 81000279
	81000420	82003679	82003668		81000293		DN32 81000280
	81000421	82003680	82003669		81000293		DN40 81000281
14	16	16	14	14	16	16	18

Cable tray accessories

 90º bend	 90º bend cover	 Outside riser	 Outside riser cover	 Inside riser	 Inside riser cover	 T-joint	 End cover
82003722	82003732	82003688	82003698	82003705	82003715	81000288	82003681
82003723	82003733	82003689	82003699	82003706	82003716		82003682
82003724	82003734	82003690	82003700	82003707	82003717		82003683
82003725	82003735	82003691	82003701	82003708	82003718		82003684
82003726	82003736	82003692	82003702	82003709	82003719		82003685
82003727	82004067	82003693	82004061	82003710	82004064	81000289	82003686
82003728	82004068	82003694	82004062	82003711	82004065		82003687
82003729	82004069	82003695	82004063	82003712	82004066		82003739
82003730	82003737	82003696	82003703	82003713	82003720		82003740
82003731	82003738	82003697	82003704	82003714	82003721		82003741
20	20	20	20	22	22	22	22

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Insulating perforated cable tray

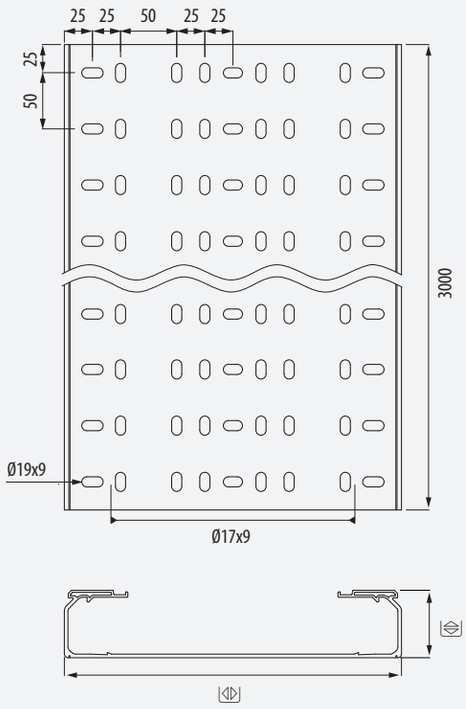
60, 100 • 100-600 • 3000

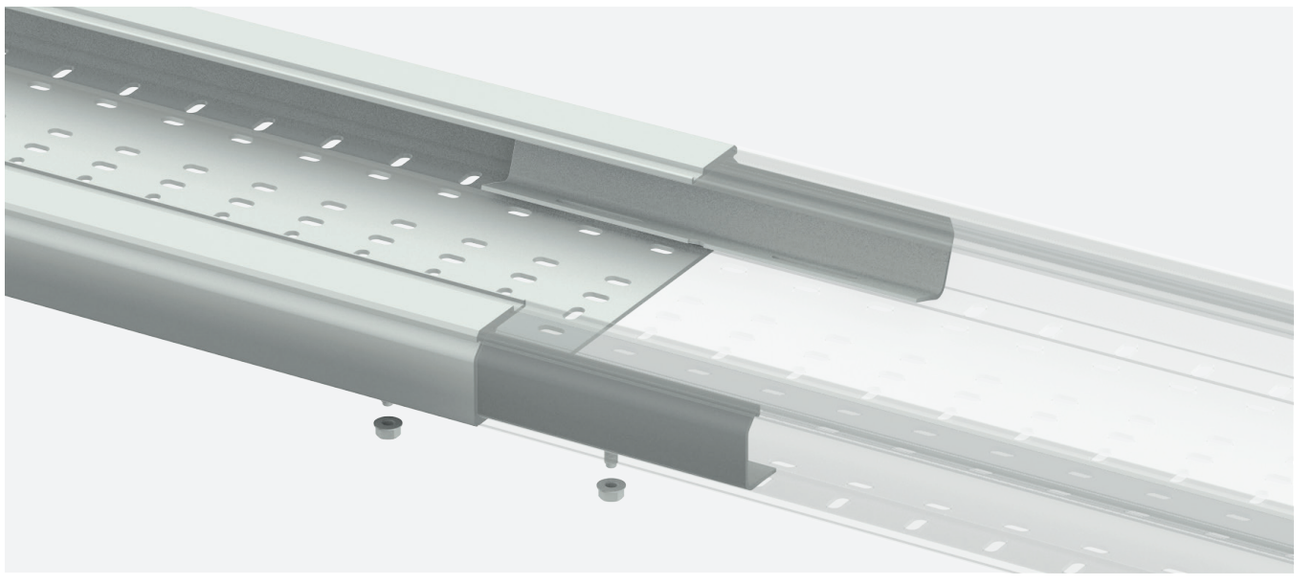


IEC 61537 EN 50085

ETIM: EC000047

• 60 -100 • 100 - 600				
		Ref	kg/m	
60	100	82003611	1,070	24
	150	82003642	1,340	12
	200	82003643	1,710	12
	300	82003644	2,600	12
	400	82003645	3,160	6
100	200	82003646	2,560	6
	300	82003647	3,360	6
	400	82003648	4,270	6
	500	82003649	5,240	6
	600	82003650	6,420	6





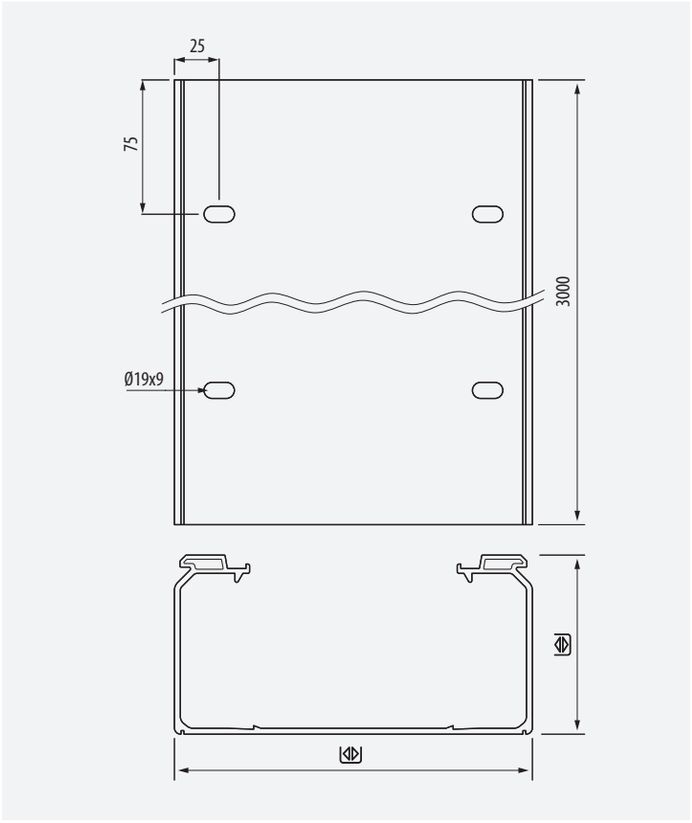


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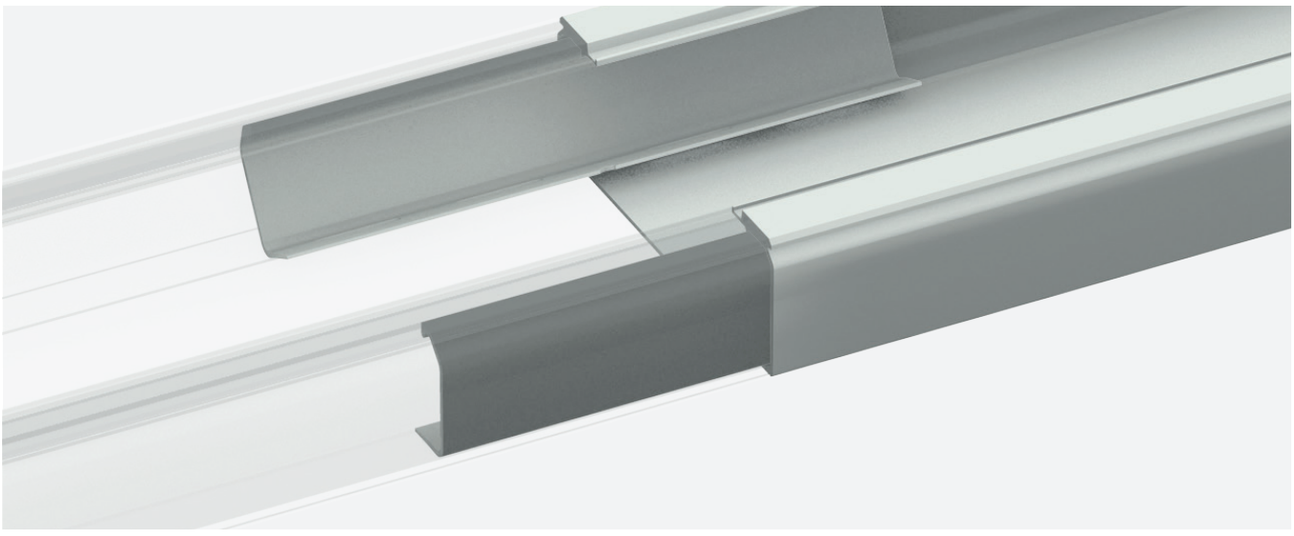
Insulating solid cable tray

60, 100 • 100-600 • 3000

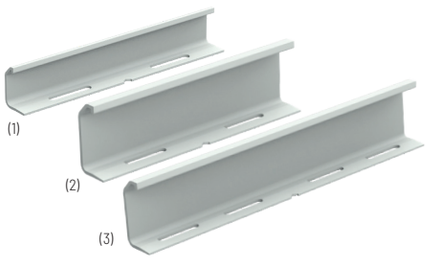
ETIM: EC000047



60 -100 • 100 - 600				
		Ref	kg/m	
60	100	82003651	1,100	24
	150	82003652	1,390	12
	200	82003653	1,780	12
	300	82003654	2,750	12
	400	82003655	3,370	6
100	200	82003656	2,660	6
	300	82003657	3,530	6
	400	82003658	4,520	6
	500	82003659	5,570	6
	600	82003660	6,860	6

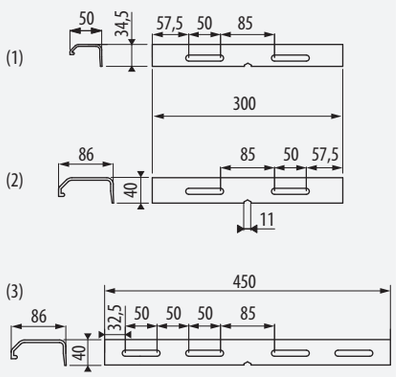


Coupler

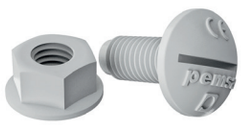


• 60-100			
	Ref	kg/u	
60 (1)	82003672	0,107	24
100 (2)	82004247	0,224	10
100 (3)	82003673	0,339	10

ETIM: EC002413

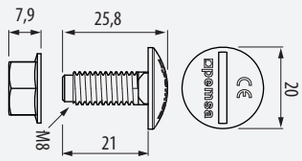


Joint kit M8



M	Ref	kg/u	
M8	81000298	0,003	100

ETIM: EC002935

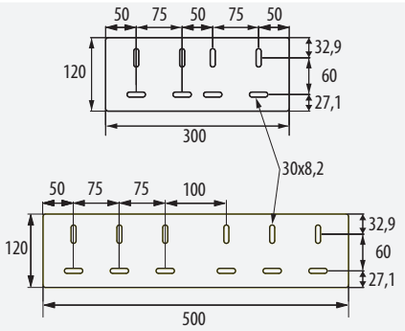


Reinforced central joint

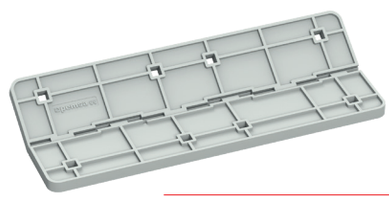


• 60-100 • 400-600				
		Ref	kg/u	
PO-PG	300-400	82004223	0,531	6
	500-600	82004224	0,896	6

ETIM: EC002413

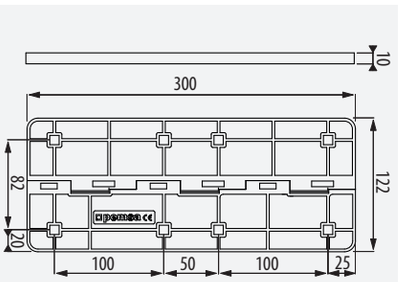


Reinforced base joint



Ref	kg/u	
81000290	0,270	6

ETIM: EC002413

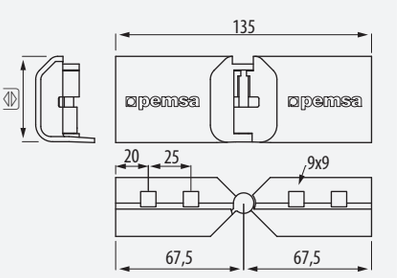


Corner joint

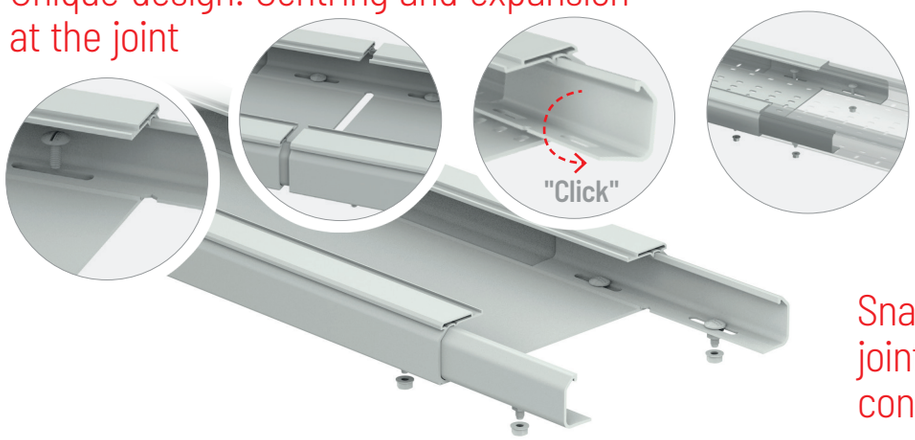


• 60-100			
	Ref	kg/u	
60	81000282	0,050	8
100	81000283	0,139	8

ETIM: EC002413

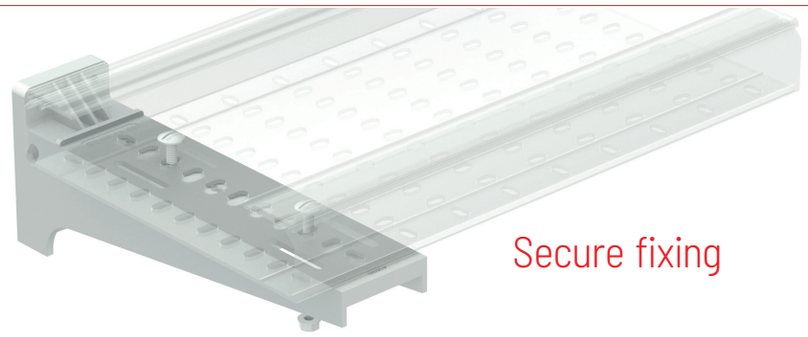


Unique design. Centring and expansion at the joint



2	4

Snap-on and prefixed jointing system for quick connection



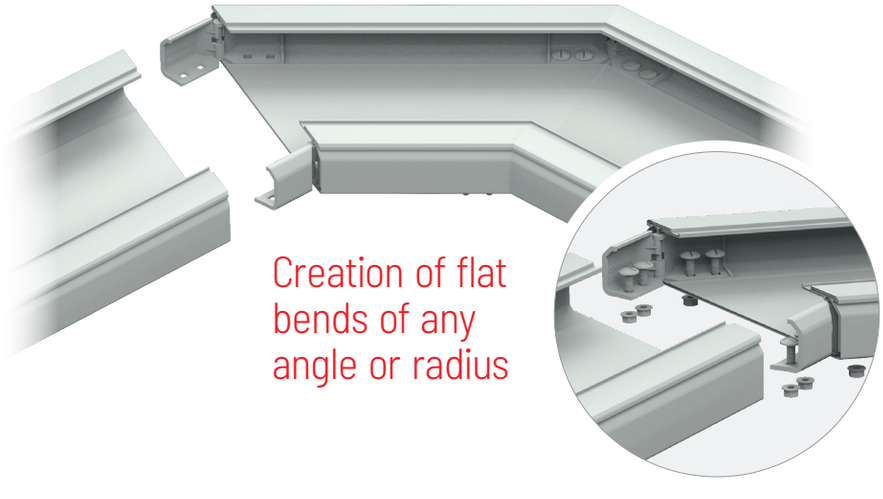
Secure fixing

100-150	x1
200-400	x2
500-600	x3

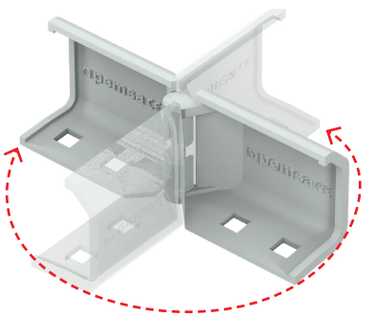
Base reinforcement from 300 width



1	8



Creation of flat bends of any angle or radius



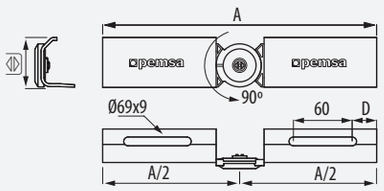
60-100	4

Vertical hinge



60-100					
	A	D	Ref	kg/u	u
60	280	33	81000284	0,094	12
100	384	22	81000285	0,287	12

ETIM: EC002413

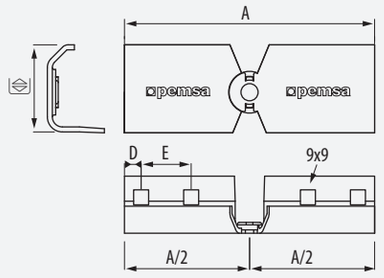


Riser/dropper



60-100						
	A	D	E	Ref	kg/u	u
60	159	15	30	81000286	0,053	8
100	195,4	22,1	40	81000287	0,136	8

ETIM: EC002413

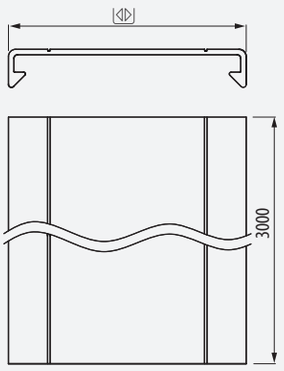


Cover



100 - 600			
	Ref	kg/m	u
100	82003663	0,485	24
150	82003664	0,678	12
200	82003665	0,887	12
300	82003666	1,320	12
400	82003667	2,110	6
500	82003668	2,830	6
600	82003669	3,640	6

ETIM: EC002403

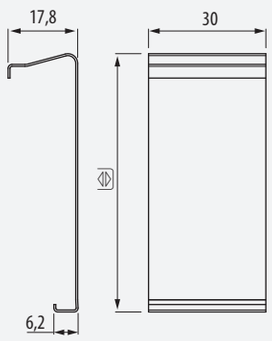


Cover fixing

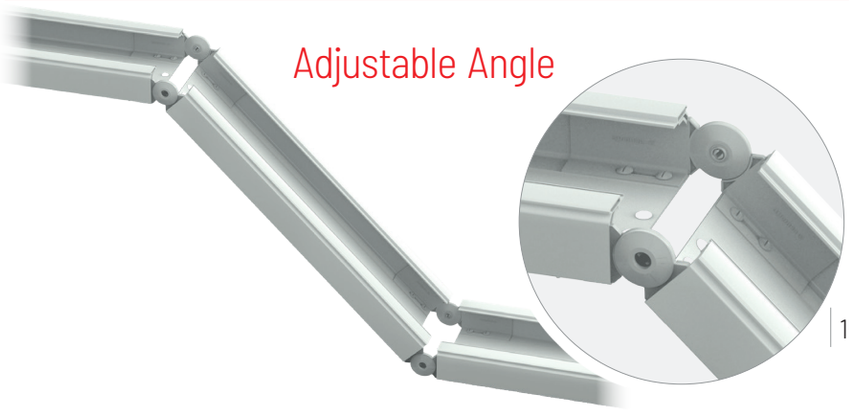


60-100				
S		Ref	kg/u	u
304	60	81000296	0,011	50
	100	81000311	0,015	50

ETIM: EC001002

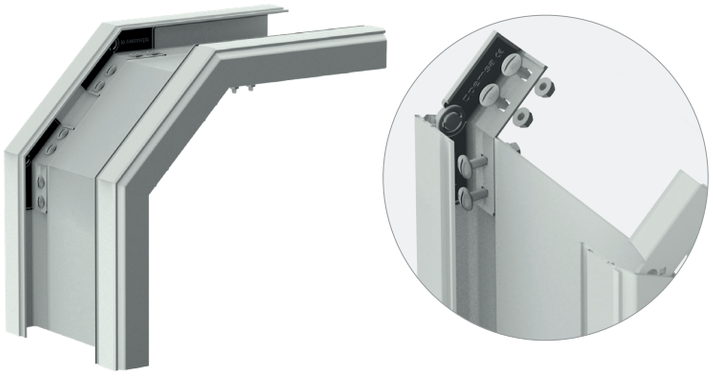


Adjustable Angle



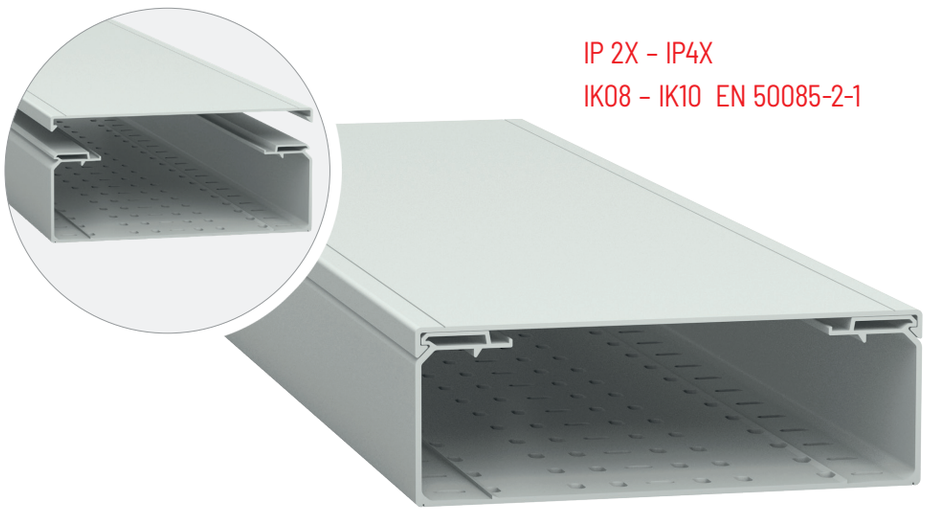
x2 12
x8 12

15º - 30º - 45º - 60º - 90º



x8 12

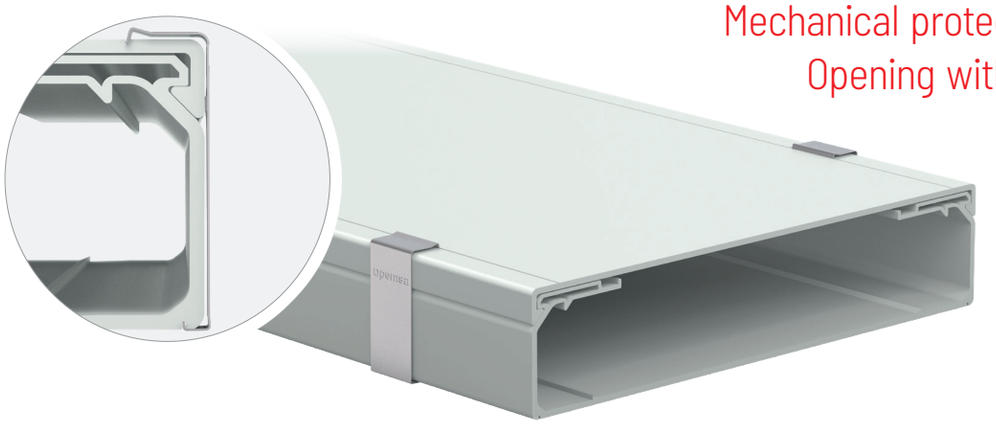
Creating risers of any angle or radius



IP 2X – IP4X
IK08 – IK10 EN 50085-2-1

Protection and maximum tightness for cables

Cable tray + cover = Cable trunking EN 50085



Mechanical protection. IK10 / 20J
Opening with tool

cover retainer

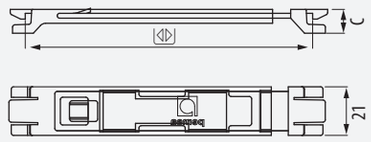


IEC 61537 EN 50085 CE UK CA RoHS

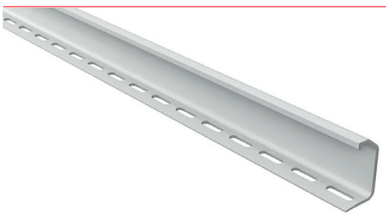
⌐ • ⟷ 100 - 600			
⟷	Ref	kg/u	u
100	81000351	0,004	24
150	81000291	0,005	12
200-300	81000292	0,011	12
400-500-600	81000293	0,014	12

RAL 9010

ETIM: EC001936



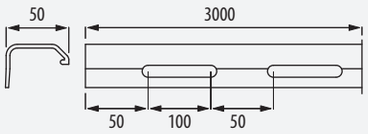
Divider



NF AENOR IEC 61537 EN 50085 CE UK CA RoHS

⌐ • ⟺ 60-100			
⟺	Ref	kg/u	u
60	82003661	0,430	36
100	82003662	0,892	36

ETIM: EC001000



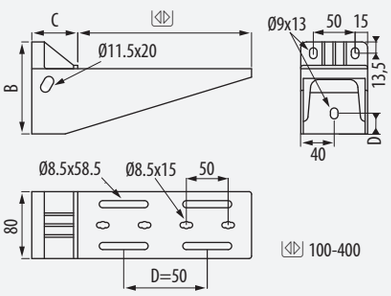
Cantilever



NF AENOR IEC 61537 EN 50085 CE UK CA RoHS

⌐ • ⟷ 100 - 600						
⟷	B	C	D	Ref	kg/u	u
100	110	62	23	81000270	0,206	4
150	110	63	23	81000271	0,227	4
200	110	63	23	81000272	0,294	4
300	130	65	19	81000273	0,552	4
400	130	65	19	81000274	0,623	4
500	220	60	48	81000420	1,010	4
600	220	60	48	81000421	1,960	4

ETIM: EC000022



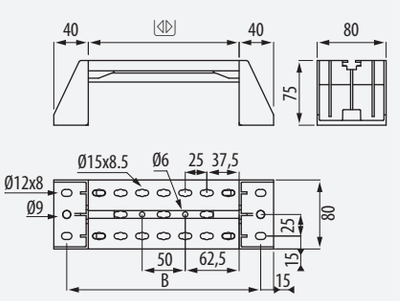
Suspension vertical support

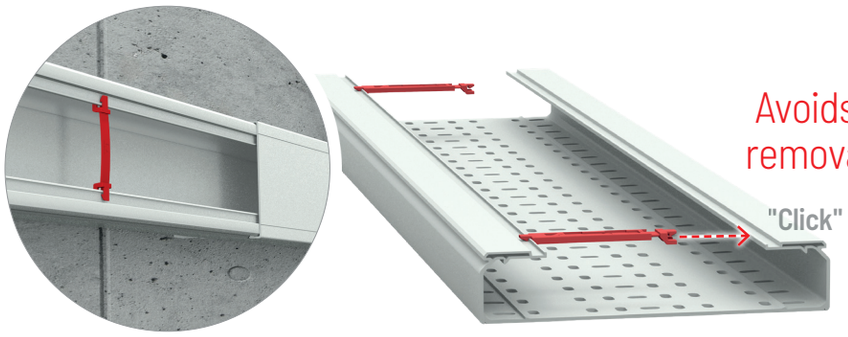


NF AENOR IEC 61537 EN 50085 CE UK CA RoHS

⌐ • ⟷ 100 - 600			
⟷	Ref	kg/u	u
100	82003674	0,220	4
150	82003675	0,248	4
200	82003676	0,277	4
300	82003677	0,344	4
400	82003678	0,401	4
500	82003679	0,482	4
600	82003680	0,539	4

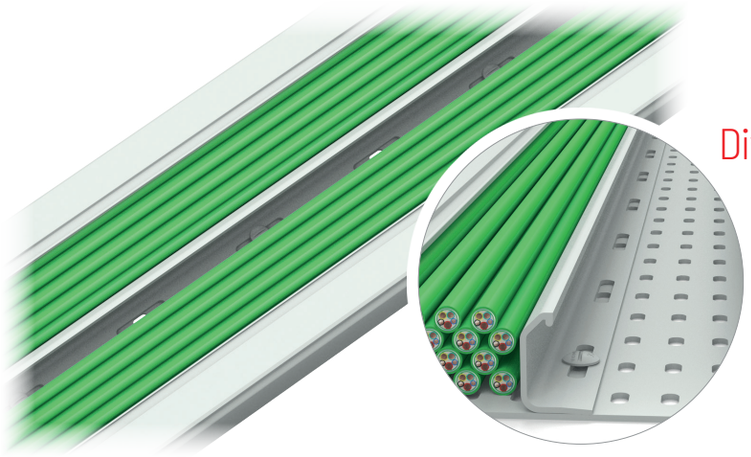
ETIM: EC000022





1 x m

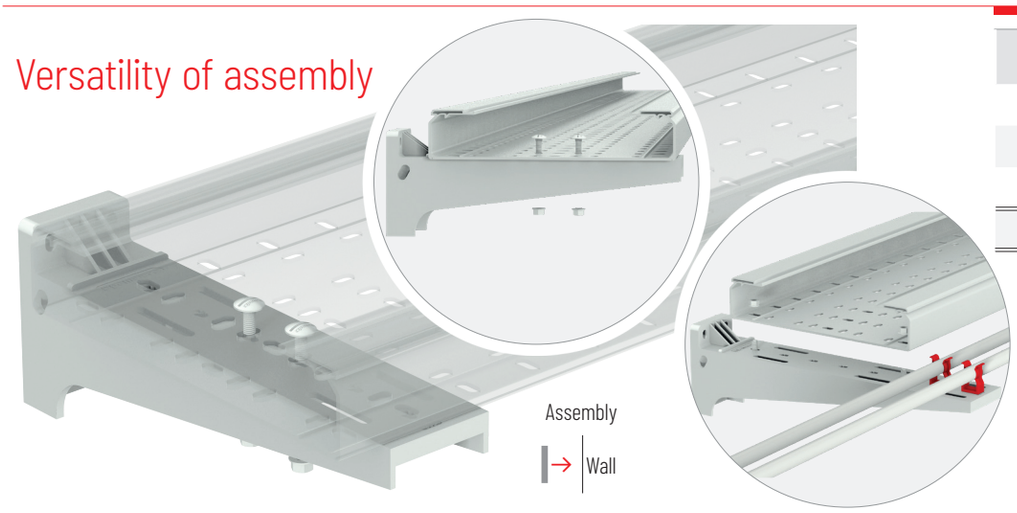
Avoids expansion and improves removal/assembly of the covers



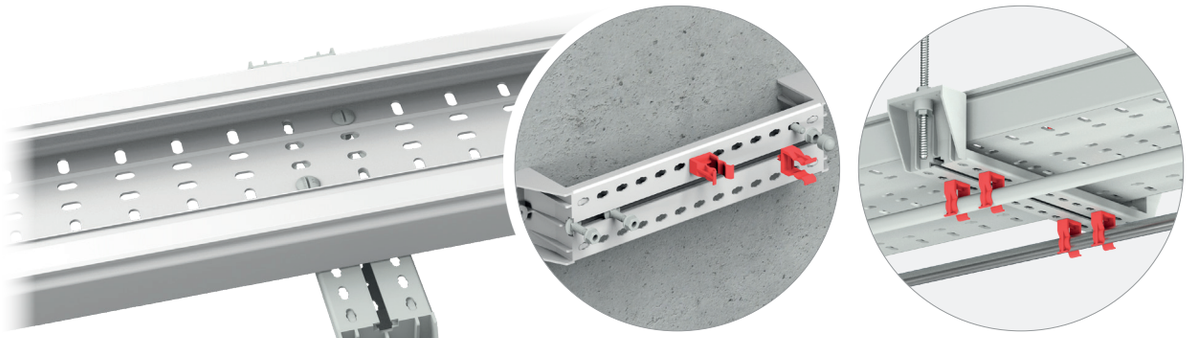
1 kit x m +i 12

Division and organisation of cables

Versatility of assembly



	/
100-150	x1
200-400	x2
500-600	x3
+i 16	+i 12 / 18



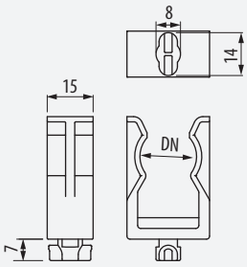
Conduit fixing clip



DN	Ref	kg/u	u
16	81000277	0,005	50
20	81000278	0,006	50
25	81000279	0,007	50
32	81000280	0,007	30
40	81000281	0,011	20

RAL 9010

ETIM: EC002320

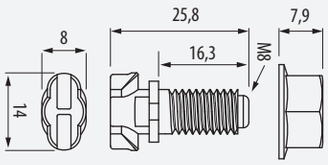


Joint Clip

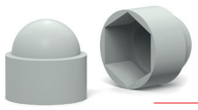


M	Ref	kg/u	u
M8	81000297	0,001	100

ETIM: EC003861

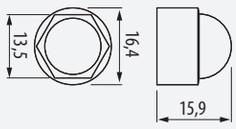


Screw protector M8

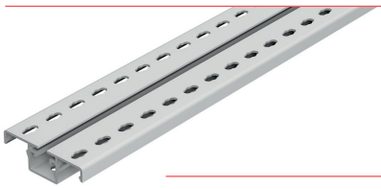


M	Ref	kg/u	u
M8	81000401	0,0009	100

ETIM: EC002375

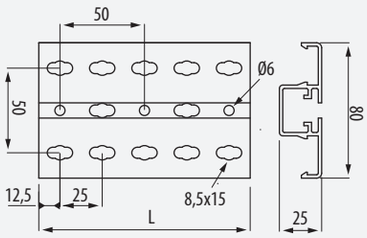


Profile

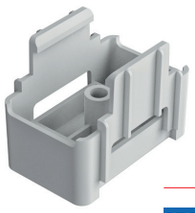


L	Ref	kg/u	u
1000	82003670		24
2000	82003671		24

ETIM: EC000386

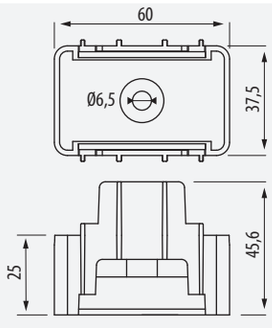


Elevating foot

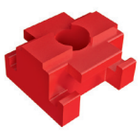


Ref	kg/u	u
81000294	0,026	20

ETIM: EC000022



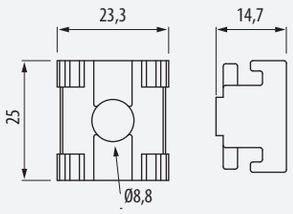
Red Profile plug



Ref	kg/u	u
81000295	0,004	20

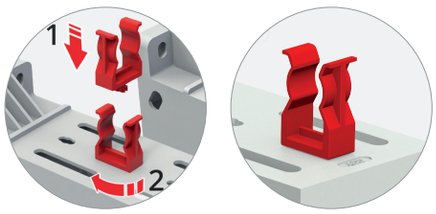
RAL 9010

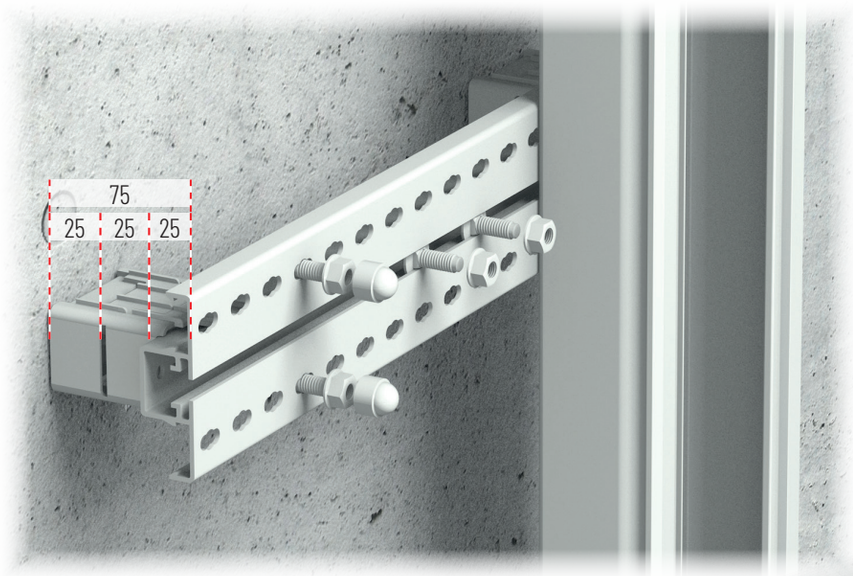
ETIM: EC000475



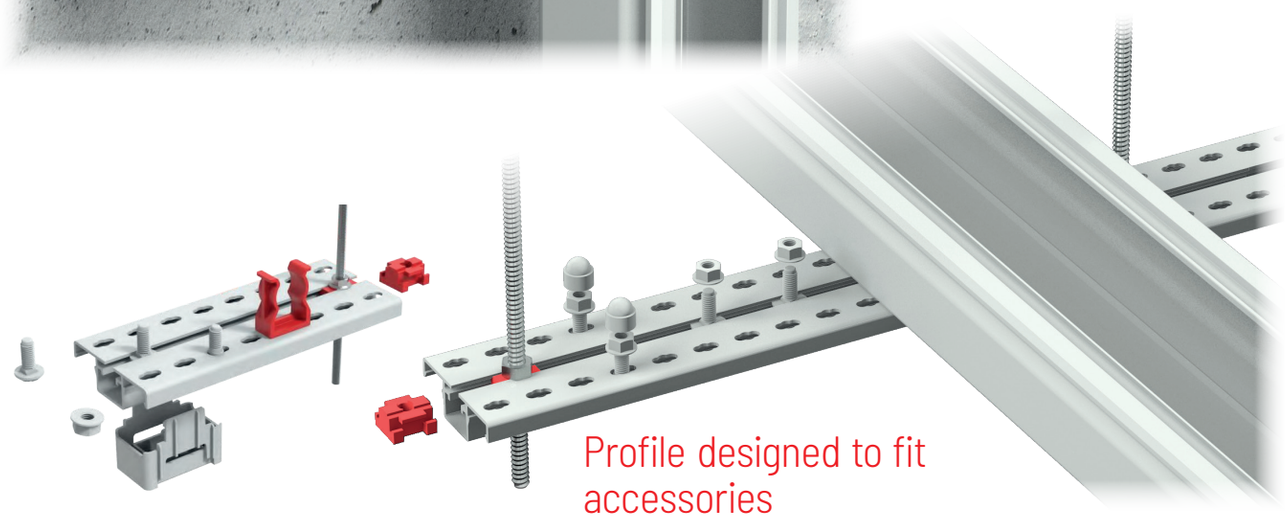


Multi-functionality with perforations for Conduit Clips and Clip Joint Kits



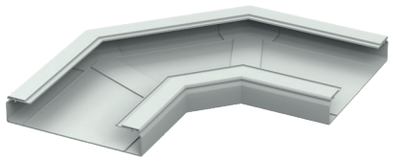


Stackable up to 2 heights. from 50 to 75 mm.



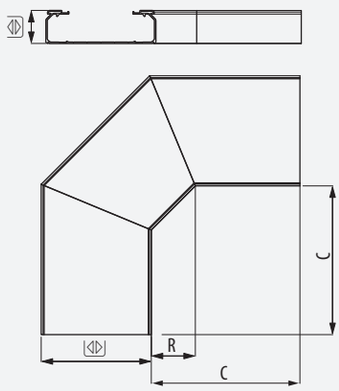
Profile designed to fit accessories

Insulating 90º bend



ETIM: EC002400

60 - 100 • 100 - 600						
		C	R	Ref	kg/u	
60	100	270	80	82003722	0,672	2
60	150	270	80	82003723	0,898	2
60	200	270	80	82003724	1,197	2
60	300	270	80	82003725	1,994	2
60	400	270	80	82003726	2,680	1
100	200	345	100	82003727	2,164	2
100	300	345	100	82003728	3,073	2
100	400	345	100	82003729	4,218	1
100	500	365	100	82003730	5,552	1
100	600	365	100	82003731	7,275	1

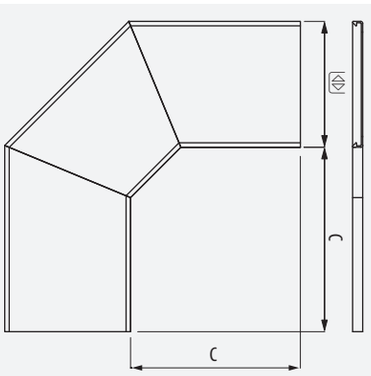


90º bend insulating cover

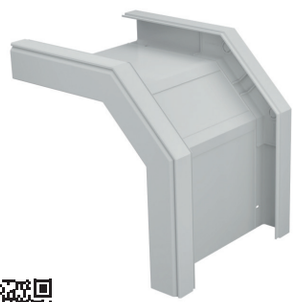


ETIM: EC001569

60 - 100 • 60 - 600					
		C	Ref	kg/u	
60	100	270	82003732	0,264	2
60	150	270	82003733	0,402	2
60	200	270	82003734	0,559	2
60	300	270	82003735	1,129	2
60	400	270	82003736	1,632	1
100	200	345	82004067	0,674	2
100	300	345	82004068	1,340	2
100	400	345	82004069	1,906	1
100	500	365	82003737	2,652	1
100	600	365	82003738	3,893	1

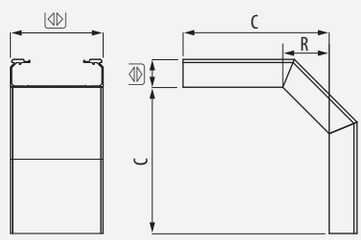


Outside riser



ETIM: EC002400

60 - 100 • 100 - 600						
		C	R	Ref	kg/u	
60	100	315	100	82003688	0,805	2
60	150	315	100	82003689	0,984	2
60	200	315	100	82003690	1,209	2
60	300	315	100	82003691	1,753	2
60	400	315	100	82003692	2,110	1
100	200	425	120	82003693	2,524	2
100	300	425	120	82003694	3,176	2
100	500	425	120	82003695	3,916	1
100	600	425	120	82003696	4,695	1
100	600	425	120	82003697	5,631	1

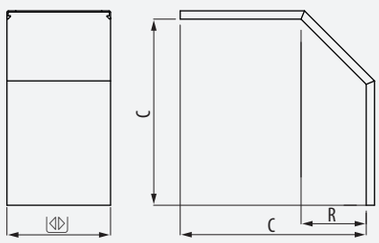


Outside riser insulating cover

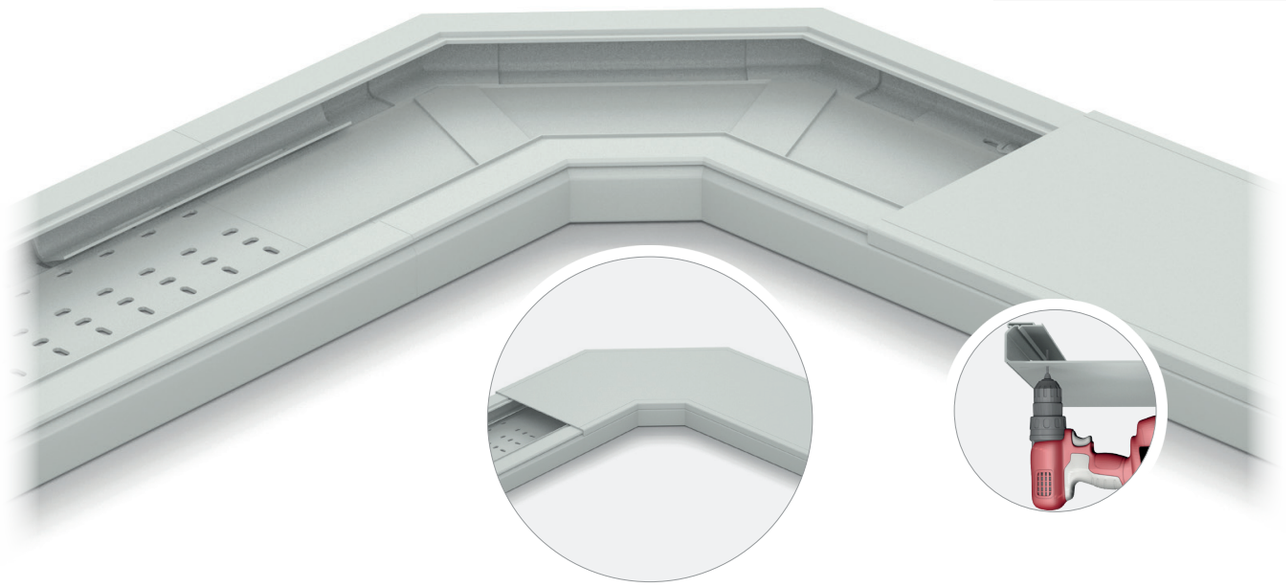


ETIM: EC002402

60 - 100 • 100 - 600					
	C	R	Ref	kg/u	
60	100	0,264	82003698	0,300	2
60	150	0,402	82003699	0,430	2
60	200	0,559	82003700	0,562	2
60	300	1,129	82003701	1,023	2
60	400	1,632	82003702	1,343	1
100	200	0,674	82004061	0,766	2
100	300	1,340	82004062	1,396	2
100	400	1,906	82004063	1,827	1
100	500	2,652	82003703	2,453	1
100	600	3,893	82003704	3,143	1

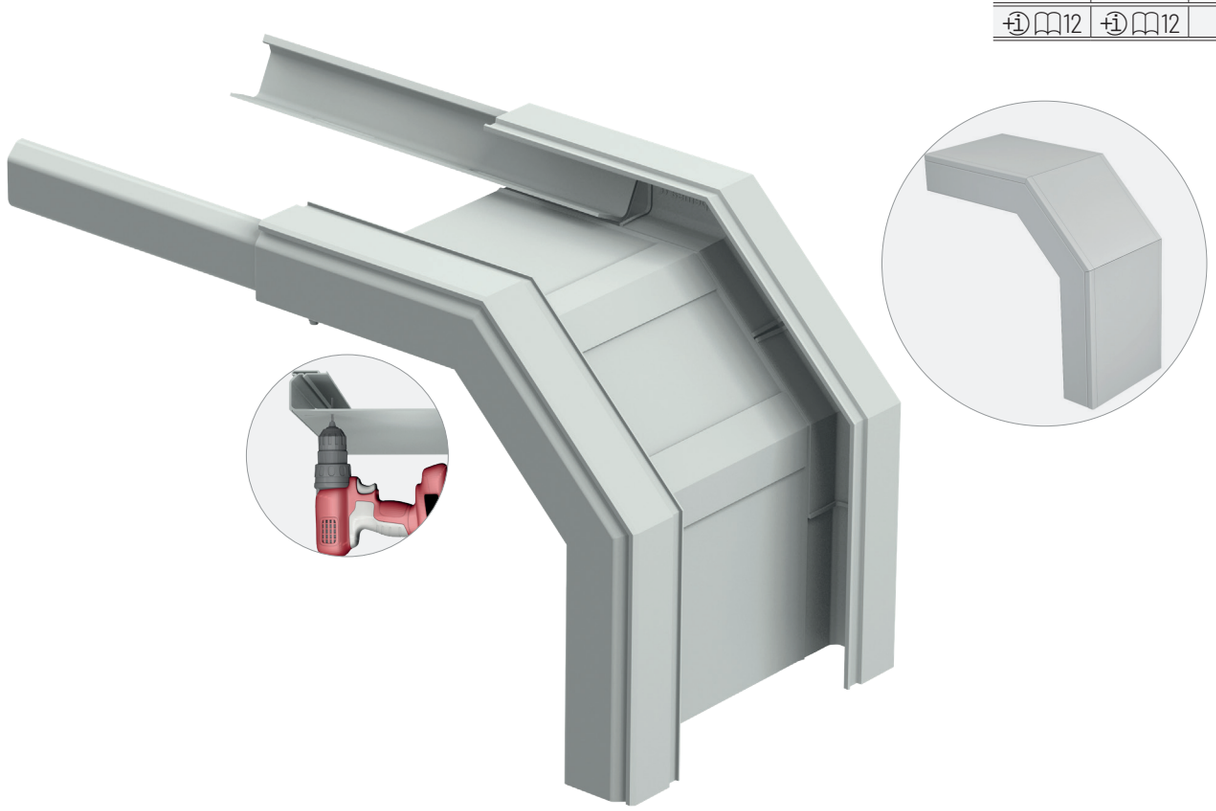


2	4	4
i 12	i 12	



Single piece item. Labour savings

2	4	4
i 12	i 12	



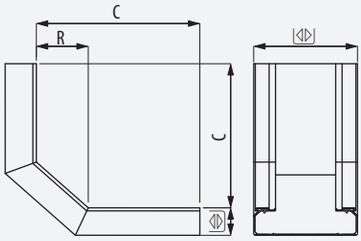
Inside riser



IEC 61537 EN 50085 CE UK CA RoHS III

• 60 - 100 • 100 - 600

		C	R	Ref	kg/u	
60	100	315	100	82003705	0,817	2
60	150	315	100	82003706	1,008	2
60	200	315	100	82003707	1,248	2
60	300	315	100	82003708	1,834	2
60	400	315	100	82003709	2,225	2
100	200	425	120	82003710	2,602	2
100	300	425	120	82003711	3,317	2
100	400	425	120	82003712	4,140	1
100	500	425	120	82003713	4,997	1
100	600	425	120	82003714	6,053	1



ETIM: EC002400

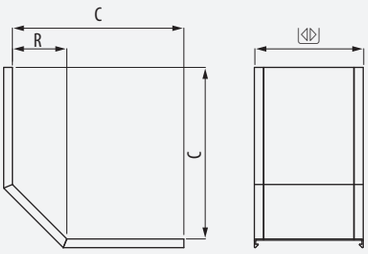
Inside riser Cover



IEC 61537 EN 50085 CE UK CA RoHS III

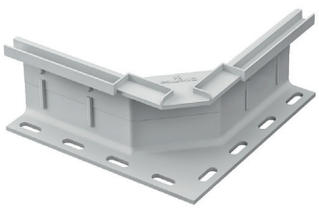
• 60 - 100 • 100 - 600

		C	R	Ref	kg/u	
60	100	315	100	82003715	0,261	2
60	150	315	100	82003716	0,373	2
60	200	315	100	82003717	0,487	2
60	300	315	100	82003718	0,880	2
60	400	315	100	82003719	1,156	2
100	200	425	120	82004064	0,640	2
100	300	425	120	82004065	1,160	2
100	400	425	120	82004066	1,520	1
100	500	425	120	82003720	2,041	1
100	600	425	120	82003721	2,610	1



ETIM: EC002402

T-joint

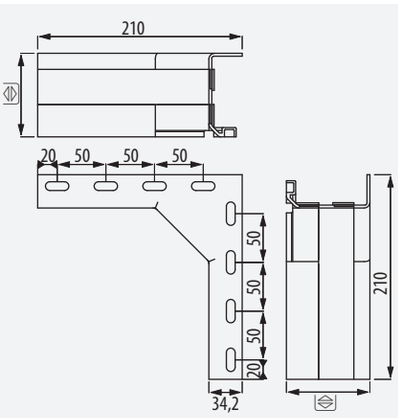


IEC 61537 EN 50085 CE UK CA RoHS III

• 60 - 100

	Ref	kg/u	
60	81000288	0,192	1
100	81000289	0,253	1

ETIM: EC002401



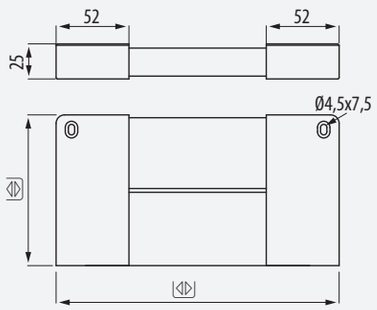
End cover

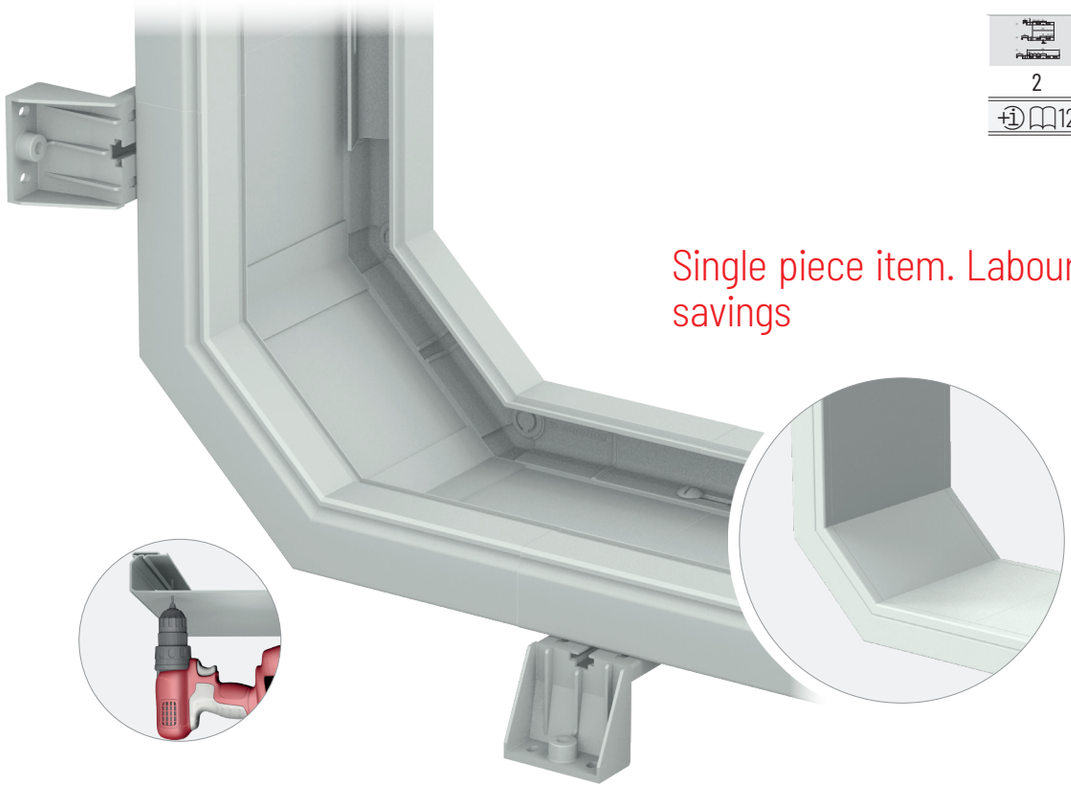


IEC 61537 EN 50085 CE UK CA RoHS III

• 60 - 100 • 100 - 600

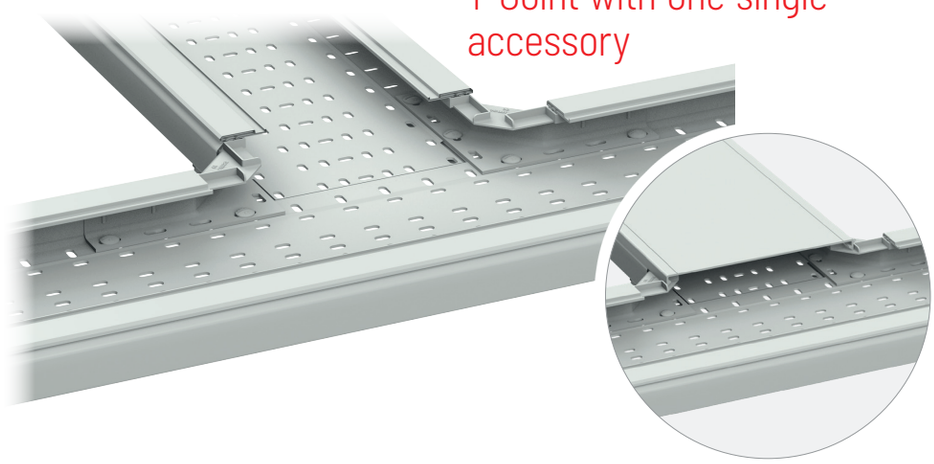
		Ref	kg/u	
60	100	82003681	0,061	4
60	150	82003682	0,075	2
60	200	82003683	0,091	2
60	300	82003684	0,121	2
60	400	82003685	0,151	2
100	200	82003686	0,133	2
100	300	82003687	0,198	2
100	400	82003739	0,220	2
100	500	82003740	0,264	2
100	600	82003741	0,308	2





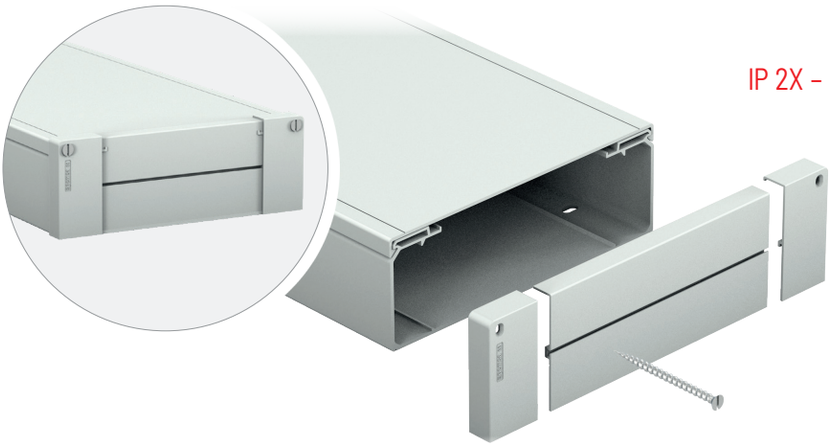
2	4	4
12	12	

Single piece item. Labour savings



T-Joint with one single accessory

2	2 x 4
22	12



IP 2X - IP4X

Protection and maximum tightness

Technical data

	Raw Material
	Thermoplastic insulating material developed with own formulation. Ral 7035 Grey colour.

	Good resistance to corrosion and to chemical agents. ISO/TR 10358 y DIN 8061. (consult agents, concentration and temperature)
	Good performance outdoors and with exposure to UV rays. ANSI/UL 568
	Electrical insulating EN 61537 Insulating material. No earthing required. Dielectric strength EN 60243-1: 18±5 kV/mm
	Impact strength EN 61537: 20 J Cable tray 60x100: 10J EN 50085-2-1 Cable tray + cover: IK10
	IP-XX Protection (solids and liquids) IP2X (perforated cable tray) IP4X or IP44 (Solid cable tray)
	Free of pollutants and hazardous substances, RoHS III and REACH compliant, free of phthalates and silicones.
	Working loads EN 61537
2Nm	Tightening torque. To ensure the functionality and technical features of the system, it is recommended that the tightening torque of the threaded elements is 2 Nm.
	Reaction to fire EN 61537: Glow-wire test 960 ºC. Non-flame propagating UL94: V0 Grade, no hot spots are generated away from the fire source. Low carbon dioxide and carbon monoxide emissions UNE 201010. Classification M1

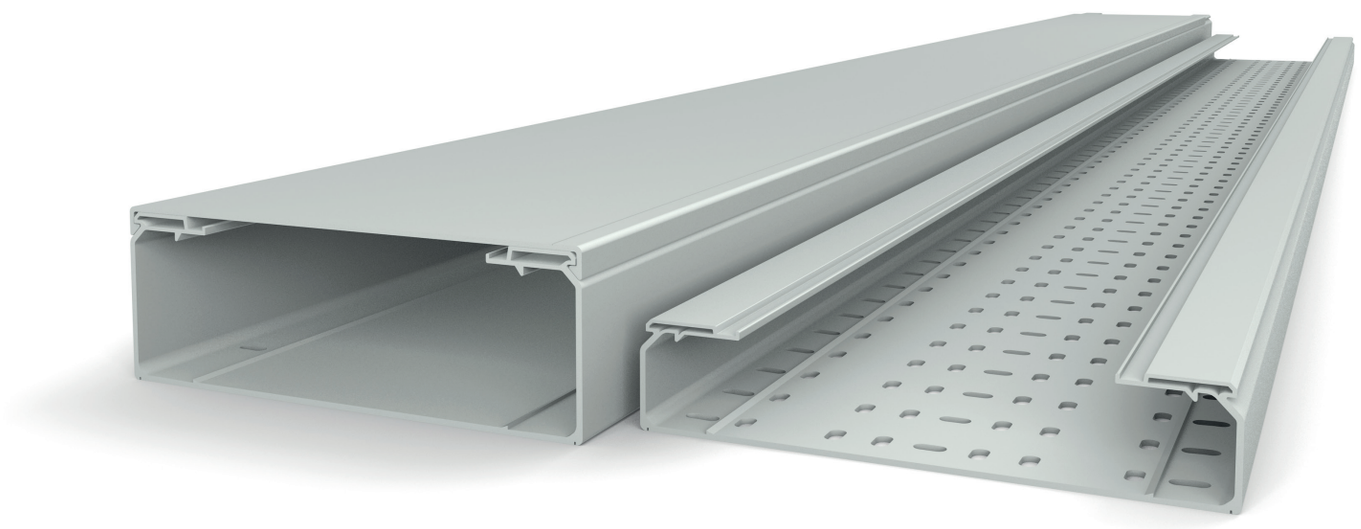
Pemsa reserves the right to make changes and updates to the characteristics and data without these being expressed in the texts, tables and information set out in this document or catalogue.

Certifications and quality marks

Quality marks	
EN 61537 EN 50085	N from AENOR certifying that they have met the requirements of the European standards, EN 61537, " Cable tray systems and cable ladder systems for cable management" and EN 50085 " Cable trunking systems and cable ducting systems for electrical installation", which specifies the safety conditions, tests, technical characteristics, etc., to be met by protective trays and channels.
IEC 61537 EN 50085	International certificate created within the International Electrotechnical Commission (IEC) that certifies product conformity to the IEC 61537 and EN 50085 product standards. This certificate makes it easier to obtain marks of conformity in other countries.

Declarations of conformity	
CE	EU Declaration of Conformity (CE marking), according to EN 61537 and Low Voltage Directive 2014/35 / EU.
UKCA	UKCA Declaration of Conformity (UKCA marking), according to BS EN 61537 and directive Electrical and Equipment (Safety) Regulations 2016 (S.I. 2016 No. 1101).

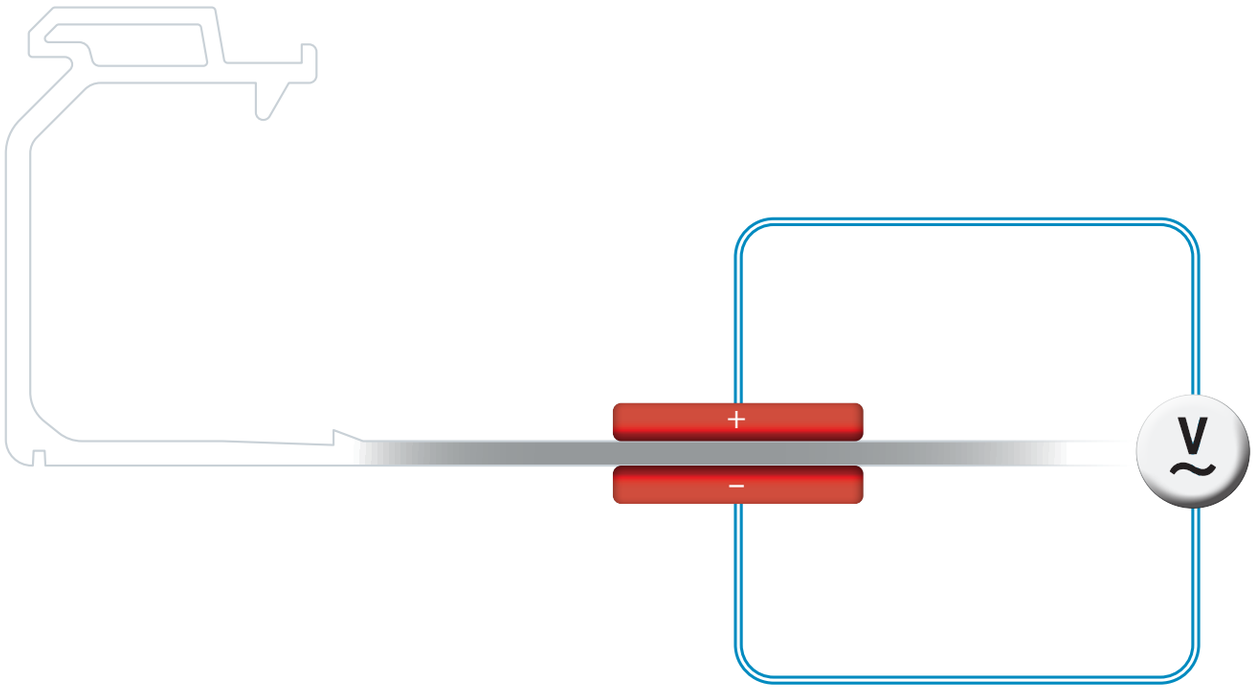
According to	
☑	Cable tray and protective cable trunking according to REBT*. ITC-BT 20 and 21 (Cable tray + cover)



Technical data

Insulating material

Electrical safety and reduced maintenance costs.



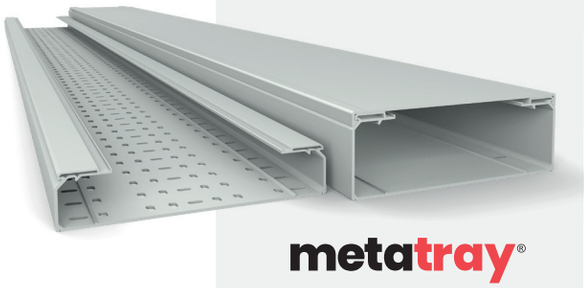
- No **earth connection** is required, so (1) no need to install equipotential cables and terminals to connect the earth circuit; (2) savings in installation costs (material, labour...).
- System protected against **indirect contacts** (*), as it is made of electrically insulated material, increasing the safety of the installation for people and domestic animals.
- The electrical insulation, when the tray is installed with a cover, allows its use in any part of the installation of **insulated conductors of rated voltage 450/750 V.**
- High **dielectric strength:** 18 ± 5 kV / mm according to EN 60243-1.

(*) Indirect contact: contact of people or domestic animals with parts that have been put under voltage as a result of an insulation fault (spanish Low Voltage Electrotechnical Regulation in its complementary technical instruction ITC BT-01).

Corrosion Resistance

Performance in humid and corrosive environments

The specific formulation developed by Pemsa provides excellent corrosion performance for Metatray cable trays. The following table shows the suitability for various environments and their corrosiveness according to the international standard ISO 9223.



Corrosion resistance. Recommended for environments according to ISO 9223.

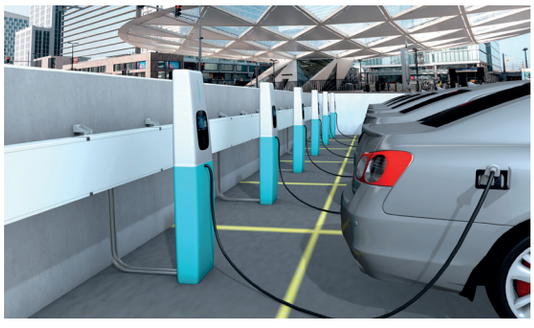
C3	Food industry. Data Center. External urban areas. Industrial plants without a chemical environment.
C4	Tunnels, heated swimming pools. Industrial plants and External industry. Solar plants in humid or inland coastal areas.
C5	Chemical and near-chemical industries, ports and shipbuilding industry
CX	Offshore platforms, Chemical and industrial plants in tropical areas.

Outdoor performance and exposure to UV radiation.

The raw material developed by Pemsa for its insulating trays complies with the UL 568 standard, meeting the test and being defined as a material suitable for outdoor use.

This allows us to recommend the Metatray range for outdoor applications and outdoor environments such as solar roofs, renewable energy or industrial environments.





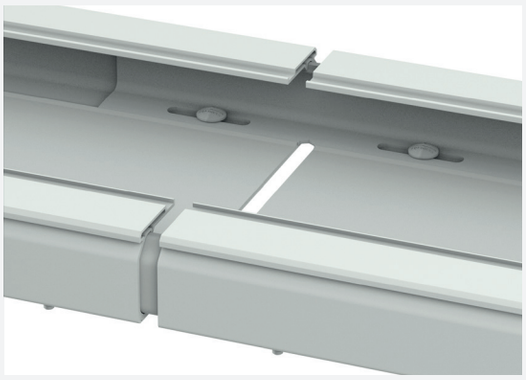
Thermal expansion

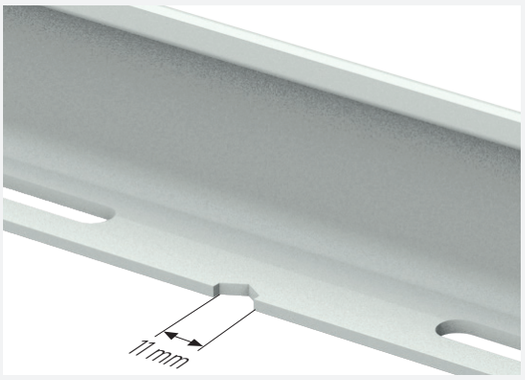
Thermal expansion is a process that happens when a material is exposed to a high temperature gradient, increasing its volume. Thermoplastic materials, such as **metratray**® cable trays, are affected by this process and it is necessary to adopt a series of measures or recommendations to compensate it, especially in joints in applications such as roofs, solar projects or outdoor installations.



Thermical solution for expansion

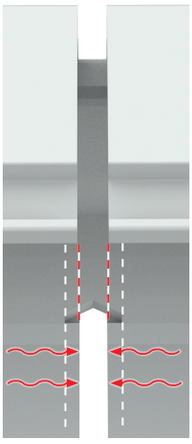
metratray® straight joints, 82003672, 82003673 and 82004247 have a centring element indicating a maximum gap of 11 mm which facilitates the execution of the expansion distance.





Application example

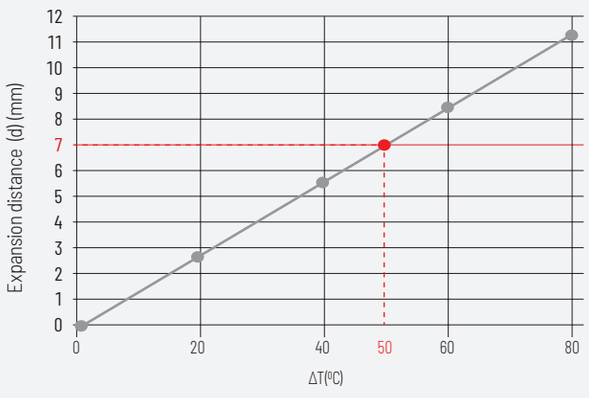
The following is a calculation of the necessary distance that must be taken into account to compensate for expansion in the joining of tray sections.



ΔT. Temperature gradient =
Tª Max – Tª Instalation

Example:
Tª max. = 60 ºC
Tª inst. = 10 ºC
ΔT = 60ºC – 10ºC = 50ºC

Corresponds to an expansion distance
d = 7 mm.



Impact strength

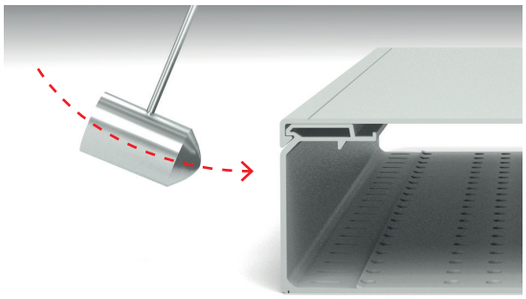
Features and mechanical protection

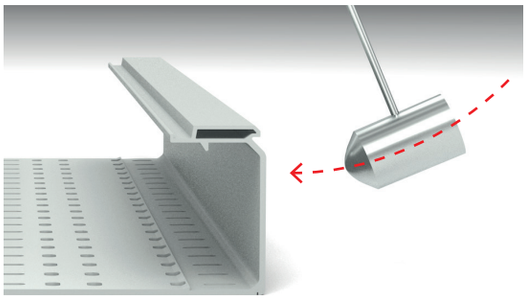
EN 61537 impact test at minimum declared temperature.

Pemsa's exclusive design on the thermoplastic material allows Metatray cable trays to provide excellent mechanical protection features and do not suffer deterioration when exposed to the minimum temperature of use as set out in the EN 61537 standard.

* 60x100: 10J.

Impact strength
20J*
Minimum temperature
-20ºC





Impact test EN 50085-2-1.

Metatray cable trays with cover are considered to be protective trunkings as they are compliant with EN 50085-2-1.

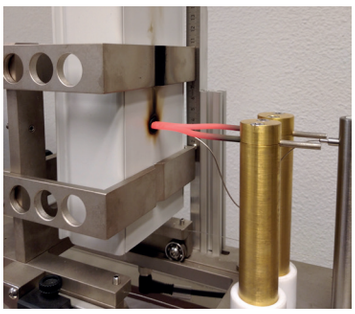
A grade IK10 is achieved in the impact test at ambient temperature.

Fire reaction

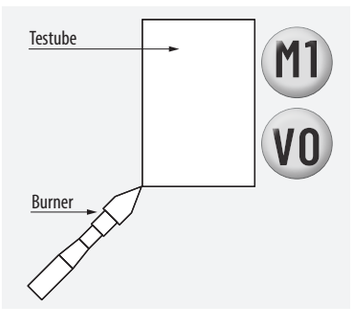
The development of Pemsa's own formulation in its cable trays overcomes the flame propagation and flammability tests defined in the EN 61537 and EN 50085 standards.



No propagation of a flame EN 61537



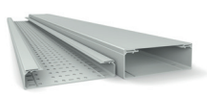
Incandescent wire test at 960°C
Does not transmit flame or drip.



Flammability acc. to UNE 202010 and UL94
M1 class and Grado V0. non-flammable

Technical data

Safety working loads (SWL) and dimensional data



Perforated and solid metatray® cable trays
Useful cross sections mm²

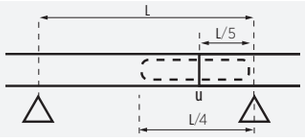
x	60x100	60x150	60x200	60x300	60x400	100x200	100x300	100x400	100x500	100x600
mm²	4,666	7,183	9,692	14,869	19,934	16,611	25,229	33,825	42,360	50,917

Safety working loads (SWL) tests for cable trays (N/m)

		60x100	60x150	60x200	60x300	60x400	100x200	100x300	100x400	100x500	100x600
60°C	1 m	120	150	250	350	450	400	450	600	700	800
40ºC	1.5 m										

The SWL tests from 300 to 600 were performed with the reinforced central joints, references 82004223 and 82004224.

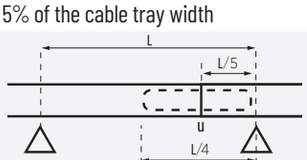
Safety working load test conditions for cable trays EN 61537

Temperature	40ºC	60ºC
Support Span	1.5m	1m
Longitudinal deflection	Less than 1% support span	
Transverse deflection	Less than 5% of the cable tray width	
Placement of joints	(L/4) > u > (L/5)	
Increased safety coefficient	1.7 times the declared safety working load	

Safety working load tests (SWL) mounted in the vertical plane running horizontally (N/m)

		60x100	60x150	60x200	60x300	60x400	100x200	100x300	100x400	100x500	100x600
40ºC	1m	400	420	550	750	850	650	800	900	950	1,000

Safety working load test conditions for cable trays EN 61537

Temperature	40ºC
Support Span	1m
Longitudinal deflection	Less than 1% support span
Transverse deflection	Less than 5% of the cable tray width
Placement of joints	(L/4) > u > (L/5) 
Increased safety coefficient	1.7 times the declared safety working load

Safety working loads (SWL) and dimensional data

Safety working loads (SWL) tests for supports (N)

		100	150	200	300	400	500	600
Cantilever 	N	60ºC	280	350	400	500	400	700	900
		40ºC	380	550	700	850	750	1,051	1,601

		100	150	200	300
Vertical ceiling support 	N	60ºC	250	320	400	420
		40ºC	375	510	600	630

		100	150	200	300**	400**	500**	600**
Floor vertical support 	N	60ºC	180	225	490	675	1,050	1,200	1,500
		40ºC	270	338	700	1,013	1,575	1,800	2,250

** Elevating foot ref. 81000294 is installed in the centre of the support width as a reinforcement.

Safety working load test conditions for supports EN 61537

Temperature	40ºC	60ºC
Admissible deflection	Lower than 5% of the length of the support	
Increased safety coefficient	1.7 times the safety working load declared	



IDEA

Installation guide

Download here.

notes

metatray®

Additional features

Product marking and identification

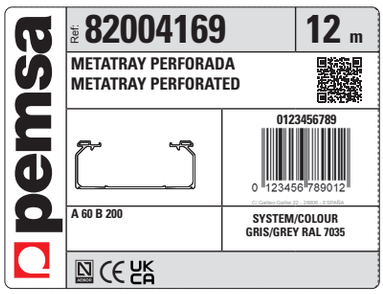
- Allows perfect identification directly of all the elements of the range.
- Sustainable. With cardboard boxes and bags made from 100% recycled material.

pemsa 82003644 METATRAY PERFORADA AISLANTE 60X300 EN 61537 EN 50085

Identification labels

Allows perfect identification of all the ranges.

- Facilitates storage.
- Allows product identification during the entire manufacturing process.
- Includes the following: QR code with linked technical sheet, 13-digit EAN bar code, reference number, the units it contains and part dimensions.





Distinctive and sustainable packaging

- Allows perfect identification of all the elements of the range.
- Sustainable. With cardboard boxes and bags made of 100% recycled material.
- Guarantees maximum protection and perfect storage.

ETIM

ETIM product classification

All products in this catalogue have been assigned an international product classification code according to the last edition of ETIM standard.

Applications by sector


Renewable energies


Service & retail construction


Water treatment


Electric vehicle

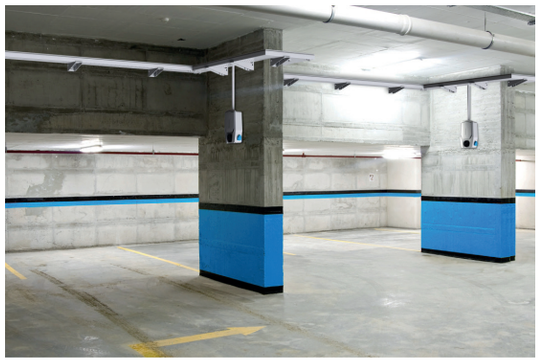

Marine industry


Railway industry


Offshore, ports


Petrochemical industry









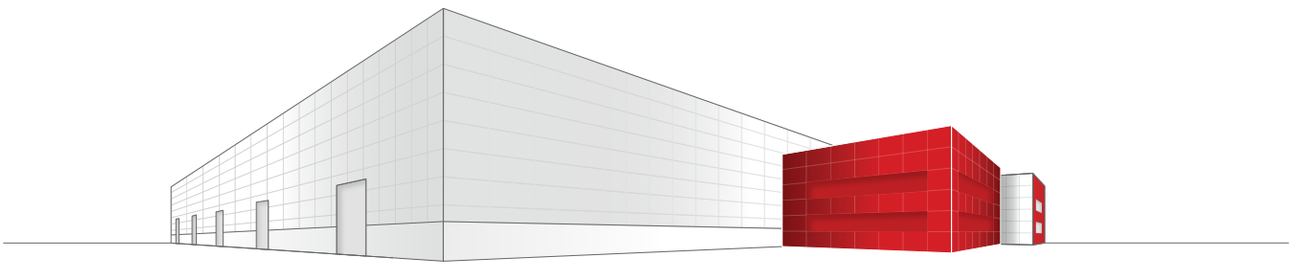




notes

pemsa

Digital



DIGITAL PLATFORM Expertone Learning Platform by pemsa

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APP

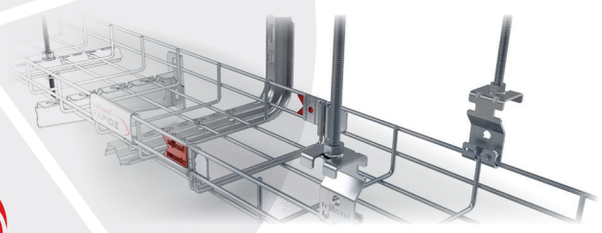


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All of our product catalogue is classified under this International standard

ETIM

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CALCULATION AND SIZING OF CABLE TRAYS

New calculation tool and sizing of cable trays

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