Product Catalogue

Fastening Solutions for Industrial Installations and for Photovoltaic Panels

TEKNOMEGA


iPad
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51%
Ω Clip
Ω Clip
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Ω Clamp
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Ω Zip
Ω Zip
Panel Boards
Fastening
Photovoltaic

YOUNG, STRONG AND EXPERT

"We are what we do on a daily basis.
So excellence is not in a single act, but in behaviour"
(Aristotele)

A decade after its foundation, Teknomega is a solid reference point in the world of electrical industry. The peculiar identity that characterizes Teknomega is made of a network of people relationships, together with a rigorous organization that has its roots in the experience of the leaders who run it.
The increased knowledge, always aligned to the evolution of the Regulations, the service culture embodied in the working routine, and the daily passion that the women and men in Teknomega express in what they do, make Teknomega a reliable partner for all its Distributors and Customers in 65 Countries worldwide. Distributors and Customers who have rewarded Teknomega with high rates of growth, even in times of crisis. Thank you, dear Customers!
The ambition to emerge, the creativity used both in the operating aspect and in the generation of new products, the pleasure of working and create job places for an increasingly wide team, make Teknomega a little shining star in the galaxy of electrical equipments; a star which we are proud of.

Maurizio Mercandelli
Managing Director

Head office and Logistic Center in Buccinasco, Milano

A YOUNG HISTORY OF SUCCESS

Quality

Teknomega commitment in terms of quality is not a slogan: it is a style, a bet on the competitiveness of the Company itself, an essential value in the Business to Business field. The apparatus of research and development is active on growth of the offer, in order to meet a growing number of applications and markets, which is, for Teknomega, a fundamental objective.

Reactivity

Our Customer Service has got personality. People who like their job at service of their customers, far from the call center logic; people who answer the needs of their interlocutors with wisdom and creativity.

Promptness

The step which follows Customer Service is a well-organized, efficient and computerized Logistic Center which can flexibly react to the requests, backed by ample stores of all the items shown in the catalogue.

Capillarity

The partnership with selected Distributors of electrical equipment, and specialized importers worldwide, makes the availability of products, as well as interlocutors and informations, decentralized and widespread.

Internationality

The attractiveness of Teknomega, of its range and its style, has rapidly pushed it beyond the national and European borders, making products available in over 60 Countries worldwide.

Updating

Staying "up to date" as to regulations, techniques and technologies, paying attention to the trends of demand, being proponents of innovation, is part of Teknomega enterpreneurial style.

Presence

Both in domestic and foreign markets, in fairs and exhibitions, or through our efficient web site www.teknomega.it, with the sales force and our newsletters, we keep a high level of presence and communication with our customers.

Recognition

Teknomega has been awarded ISO9001:2008 certification which is more than just a piece of paper, it is the recognition of the validity of the operating and control system.

Fastening techniques and solutions for industrial plants

In the most various areas of plant engineering, fastening systems are the uniting link between the carrying structure and the plant components which run along it. Teknomega's credentials to the market are those of a company with a specialized competence in the field of Fastening Systems, merging specific support during the design step and a network of select Distributors which makes possible to efficiently meet all the requests from the sites. An offer whose strength comes from a wide range ofinnovative products, certified, and complying with the highest quality standards. Teknomega study strategies which allows them to meet the widest needs of sites, guaranteeing to the final users a considerable advantage in terms of time and money saving.

SUMMARY

CAPTION

DIMENSIONS

A = Min. max. thickness of IPE/metal profile
B = Min. depth, max. height or width of metal profile
M = Threaded hole
D = Through hole Ø...or usable Diameter
L = Length in meters

LOADS

CL Kg = Static work load expressed in kg Safety factor CLIP 3:1 / ZIP 5:1
CM Kg = Maximum allowable load expressed in kg Safety factor 1:1

FINISHING (F)

A = Anticorrosion coating in layer of zinc/aluminum without Chrome. Resistance to corrosion as per DIN 50021 and ISO 9227
D= Dacromet®
E = Electric galvanization as per UNI 4721
G = Malleable cast iron-electrolytic galvanization
L = White lacquering RAL 9010
M = Magnelis®
S = Pregalvazining
SS = Stainless steel AISI304
T = Passivated electric galvanization
Z = Hot-dip galvanization as per DIN 50976 - IEC 7.6

TO INSTALL WITH:


Hand


Hammer


Wrench


Screwdriver


Drill

FOR APPLICATIONS ON:


Concrete beam


Metal beam


Metal profile


Ceiling profile


Threaded rod


Metal Hanger


Concrete wall


Metal decking


Sloping roof


Flat roof

Ω CLIP - SERIE EASY


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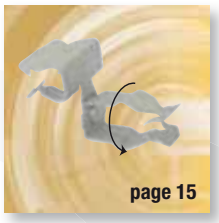
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Ω CLIP - SERIE FAST


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Ω CLIP - SERIE MEGA


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Ω CLIP - SERIE HOOK


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Ω CLIP - SERIE TOP


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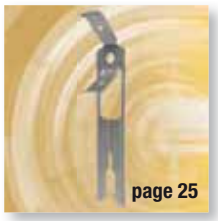
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Ω CLIP - SERIE CLAMP


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Ω CLIP - SERIE PINCH


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Ω CLIP - ACCESSORIES


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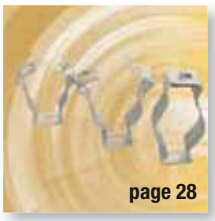
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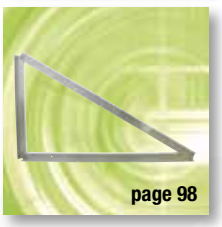
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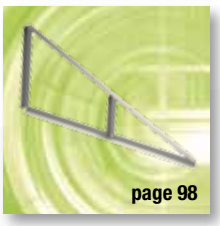
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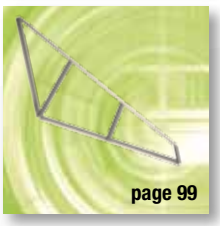
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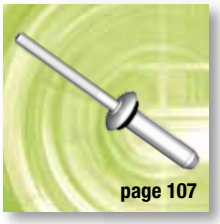
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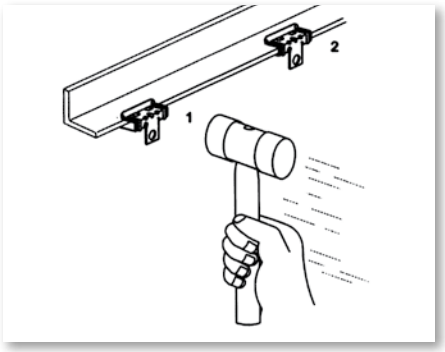
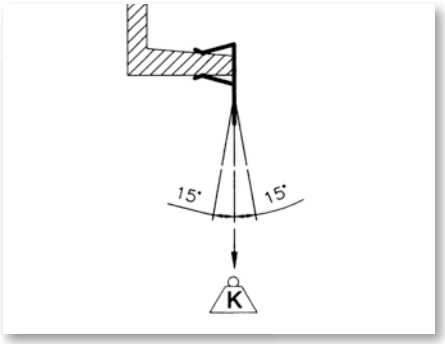




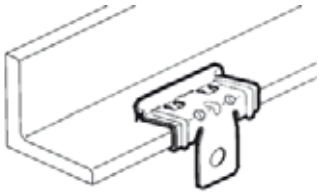
Ω CLIP - Spring Steel Fasteners

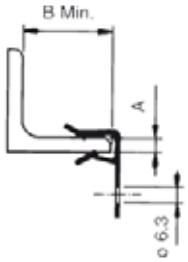
Product Characteristics

The Ω CLIP range of quick fasteners is the ideal solution to join load-bearing and non load-bearing metal structures with most components used for both electric and mechanical plants.
QUICKNESS: isimple and quick assembly represents a significant saving in terms of time, giving installation technician the opportunity to save effort and, above all, to save money.
RANGE: a vast range of references and combinations, well suited to all technical problems.
SAFETY AND CONVENIENCE: no drilling or welding is needed on the structure; no special tools or skills are required to install these solutions.
USAGE: fitting all the Ω CLIP components is easy and quick: a simple hammer blow or a screwdriver turn are all that is needed to create a solid and reliable fastening solution.
LOADS: all the components of the Ω CLIP range of fasteners are tested and checked at random before packing. The loads indicated in the tables consider a 3:1 safety coefficient.
MATERIAL USED: spring steel as per DIN 17222 (UNI-EN 10132-4); after treatment, this steel reaches a HRc 43 ÷ 50 hardness value.
ANTI-CORROSION PROTECTION:
Type A patented finish: for indoor, outdoor applications in damp and mildly corrosive environments.

- Non-electrolytic zinc and aluminum lining, deposited and bonded on steel through a chemical reaction.
- Non-hydrogenated lining (without electrolytic or acid de-scaling).
- Electric conductivity. High resistence to temperature. Range of use +5 ÷ +35°C.
- No Chrome VI or Chrome III. High protection against cathodic corrosion.
- Visual appearance : Grey - Silver.

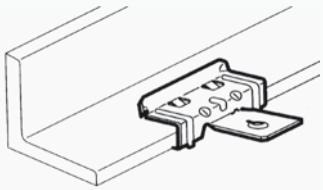
** Upon request, also available with black phosphated Zinc.
All products are tested in salt mist for up to 480 hours (as per DIN 50021).
SUGGESTIONS: The load bearing ratings indicated in the catalog must be taken as the indication of a static, vertical load applied to the structure with a "± 15°max. slope". When two or more fastening components are combined together, the lowest of the two load bearing ratings must be considered. If the structure on which the element is fitted has a lower load bearing rating than that of the element, this will determine the maximum applicable load rating.

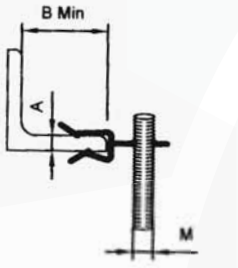




BASIC

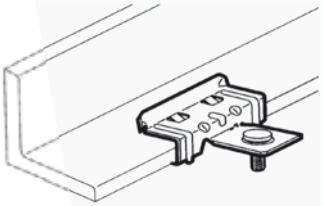
Code	Reference		F	A (mm)	B (mm)	CL (kg)
CLP1000	CLP-H1	100	A	1,5÷4	18	70
CLP1005	CLP-H2	100	A	4÷10	25	90
CLP1010	CLP-H3	100	A	10÷15	25	90
CLP1015	CLP-H4	100	A	15÷20	25	90

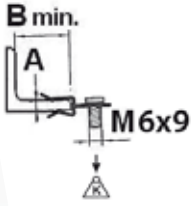




HORIZONTAL

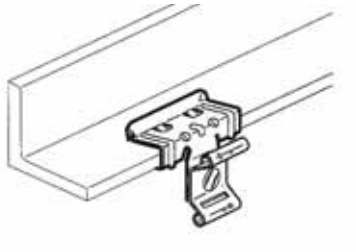
Code	Reference		F	A (mm)	B (mm)	M	CL (kg)
CLP1035	CLP-H2-I	100	A	4÷10	25	M6	20
CLP1040	CLP-H3-I	100	A	10÷15	25	M6	20

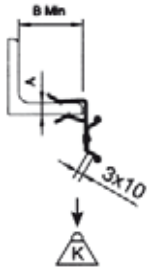




HORIZONTAL WITH SCREW

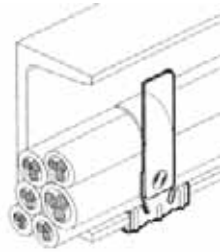
Code	Reference		F	A (mm)	B (mm)	CL (kg)
CLP1045	CLP-H2-IX	100	A	4÷10	25	20
CLP1050	CLP-H3-IX	100	A	10÷15	25	20

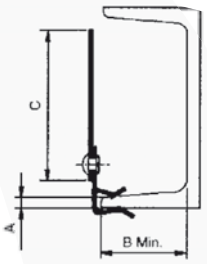




WITH TIE HOLDER

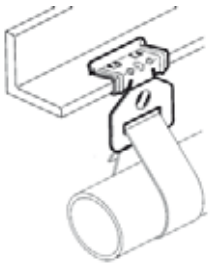
Code	Reference		F	A (mm)	B (mm)	CL (kg)
CLP1055	CLP-H1-CT	100	A	1,5÷4	18	15
CLP1060	CLP-H2-CT	100	A	4÷10	25	15
CLP1065	CLP-H3-CT	100	A	10÷15	25	15
CLP1070	CLP-H4-CT	100	A	15÷20	25	15

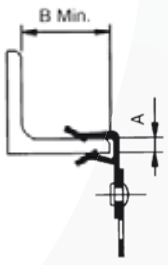


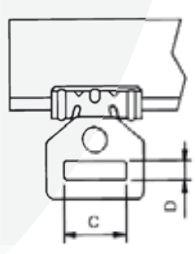


WITH STEEL BAND

Code	Reference		F	A (mm)	B (mm)	C (mm)
CLP1770	CLP-H1-LM	100	A	1,5÷4	18	75
CLP1775	CLP-H2-LM	100	A	4÷10	25	75
CLP1780	CLP-H3-LM	100	A	10÷15	25	75
CLP1785	CLP-H4-LM	100	A	15÷20	25	75

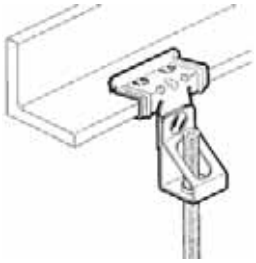


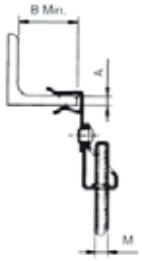




WITH TAPE HANGER

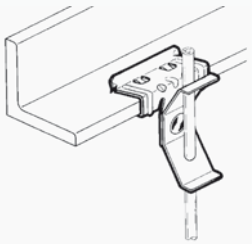
Code	Reference		F	A (mm)	B (mm)	C x D (mm)	CL (kg)
CLP1550	CLP-H1-PB	100	A	1,5÷4	18	28x6,5	45
CLP1555	CLP-H2-PB	100	A	4÷10	25	28x6,5	45
CLP1560	CLP-H3-PB	100	A	10÷15	25	28x6,5	45
CLP1565	CLP-H4-PB	100	A	15÷20	25	28x6,5	45

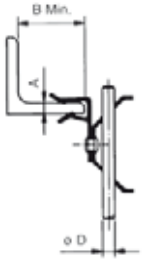




WITH THREADED ROD HANGER

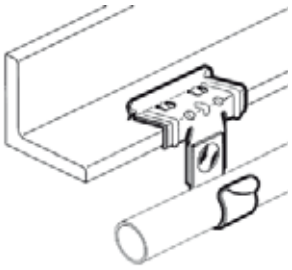
Code	Reference		F	A (mm)	B (mm)	M	CL (kg)
CLP1090	CLP-BF1-M6	100	A	1,5÷4	18	M6	70
CLP1095	CLP-BF2-M6	100	A	4÷10	25	M6	70
CLP1100	CLP-BF3-M6	100	A	10÷15	25	M6	70
CLP1105	CLP-BF4-M6	100	A	15÷20	25	M6	70
CLP1120	CLP-BF1-M8	100	A	1,5÷4	18	M8	70
CLP1125	CLP-BF2-M8	100	A	4÷10	25	M8	70
CLP1130	CLP-BF3-M8	100	A	10÷15	25	M8	70
CLP1135	CLP-BF4-M8	100	A	15÷20	25	M8	70
CLP1150	CLP-BF1-M10	100	A	1,5÷4	18	M10	70
CLP1155	CLP-BF2-M10	100	A	4÷10	25	M10	70
CLP1160	CLP-BF3-M10	100	A	10÷15	25	M10	70
CLP1165	CLP-BF4-M10	100	A	15÷20	25	M10	70

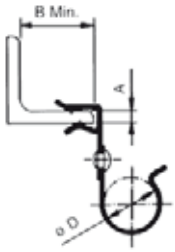




WITH SPRING FOR CEILING ROD

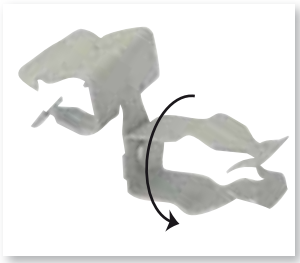
Code	Reference		F	A (mm)	B (mm)	CL (kg)
CLP1790	CLP-H1-MP	100	A	1,5÷4	18	60
CLP1795	CLP-H2-MP	100	A	4÷10	25	60
CLP1800	CLP-H3-MP	100	A	10÷15	25	60
CLP1805	CLP-H4-MP	100	A	15÷20	25	60

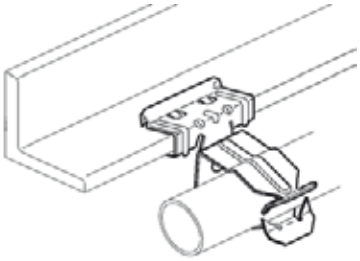


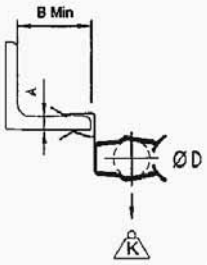


WITH FAST CLIP

Code	Reference		F	A (mm)	B (mm)	Ø (mm)
CLP1370	CLP-H1-F1214	100	A	1,5÷4	18	12-14
CLP1375	CLP-H1-F1518	100	A	1,5÷4	18	15-18
CLP1380	CLP-H1-F1924	100	A	1,5÷4	18	19-24
CLP1385	CLP-H1-F2530	100	A	1,5÷4	18	25-30
CLP1390	CLP-H2-F1214	100	A	4÷10	25	12-14
CLP1395	CLP-H2-F1518	100	A	4÷10	25	15-18
CLP1400	CLP-H2-F1924	100	A	4÷10	25	19-24
CLP1405	CLP-H2-F2530	100	A	4÷10	25	25-30
CLP1410	CLP-H3-F1214	100	A	10÷15	25	12-14
CLP1415	CLP-H3-F1518	100	A	10÷15	25	15-18
CLP1420	CLP-H3-F1924	100	A	10÷15	25	19-24
CLP1425	CLP-H3-F2530	100	A	10÷15	25	25-30
CLP1430	CLP-H4-F1214	100	A	15÷20	25	12-14
CLP1435	CLP-H4-F1518	100	A	15÷20	25	15-18
CLP1440	CLP-H4-F1924	100	A	15÷20	25	19-24
CLP1445	CLP-H4-F2530	100	A	15÷20	25	25-30

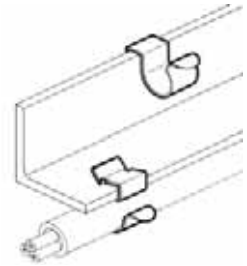


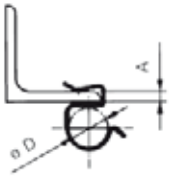




WITH PIPE FASTENER

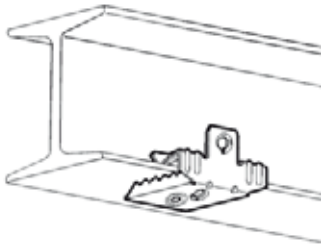
Code	Reference		F	A (mm)	B (mm)	Ø (mm)
CLP1570	CLP-H1-FT1822	100	A	1,5÷4	18	18-22
CLP1575	CLP-H1-FT2230	100	A	1,5÷4	18	22-30
CLP1580	CLP-H1-FT3035	100	A	1,5÷4	18	30-35
CLP1585	CLP-H2-FT1822	100	A	4÷10	25	18-22
CLP1590	CLP-H2-FT2230	100	A	4÷10	25	22-30
CLP1595	CLP-H2-FT3035	100	A	4÷10	25	30-35
CLP1600	CLP-H3-FT1822	100	A	10÷15	25	18-22
CLP1605	CLP-H3-FT2230	100	A	10÷15	25	22-30
CLP1610	CLP-H3-FT3035	100	A	10÷15	25	30-35
CLP1615	CLP-H4-FT1822	100	A	15÷20	25	18-22
CLP1620	CLP-H4-FT2230	100	A	15÷20	25	22-30
CLP1625	CLP-H4-FT3035	100	A	15÷20	25	30-35

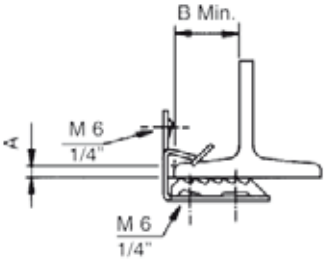




SNAP PIPE FASTENER

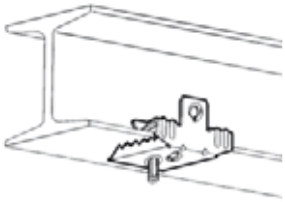
Code	Reference		F	A (mm)	Ø D (mm)
CLP1215	CLP-1C89	100	A	1÷4	8-9
CLP1220	CLP-1C1011	100	A	1÷4	10-11
CLP1225	CLP-1C1214	100	A	1÷4	12-14
CLP1230	CLP-1C1518	100	A	1÷4	15-18
CLP1235	CLP-1C1924	100	A	1÷4	19-24
CLP1240	CLP-1C2530	100	A	1÷4	25-30
CLP1245	CLP-2C89	100	A	4÷7,5	8-9
CLP1250	CLP-2C1011	100	A	4÷7,5	10-11
CLP1255	CLP-2C1214	100	A	4÷7,5	12-14
CLP1260	CLP-2C1518	100	A	4÷7,5	15-18
CLP1265	CLP-2C1924	100	A	4÷7,5	19-24
CLP1270	CLP-2C2530	100	A	4÷7,5	25-30
CLP1275	CLP-3C89	100	A	7,5÷12	8-9
CLP1280	CLP-3C1011	100	A	7,5÷12	10-11
CLP1285	CLP-3C1214	100	A	7,5÷12	12-14
CLP1290	CLP-3C1518	100	A	7,5÷12	15-18
CLP1295	CLP-3C1924	100	A	7,5÷12	19-24
CLP1300	CLP-3C2530	100	A	7,5÷12	25-30

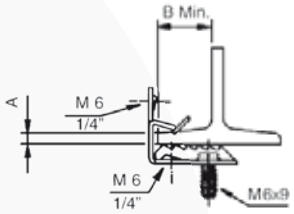




BASIC

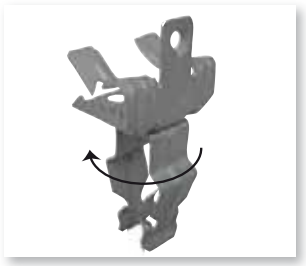
Code	Reference		F	A (mm)	B (mm)	CL (kg)
CLP1170	CLP-ME2	100	A	4÷10	35	45
CLP1175	CLP-ME3	100	A	10÷15	35	45
CLP1180	CLP-ME4	100	A	15÷20	35	45

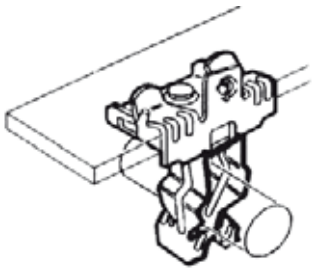




WITH M6 SCREW

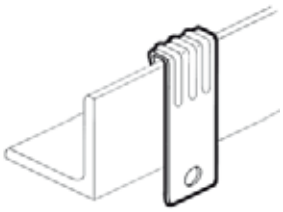
Code	Reference		F	A (mm)	B (mm)	CL (kg)
CLP1200	CLP-ME2-V	100	A	4÷10	35	33
CLP1205	CLP-ME3-V	100	A	10÷15	35	33
CLP1210	CLP-ME4-V	100	A	15÷20	35	33

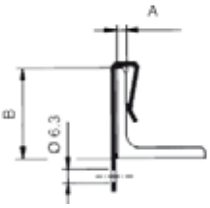




WITH PIPE FASTENER

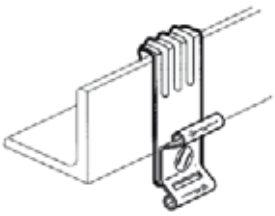
Code	Reference		F	A (mm)	B (mm)	Ø (mm)	CL (kg)
CLP1660	CLP-ME2-FT1822	100	A	4÷10	35	18-22	11
CLP1665	CLP-ME2-FT2230	100	A	4÷10	35	22-30	11
CLP1670	CLP-ME2-FT3035	100	A	4÷10	35	30-35	11
CLP1675	CLP-ME3-FT1822	100	A	10÷15	35	18-22	11
CLP1680	CLP-ME3-FT2230	100	A	10÷15	35	22-30	11
CLP1685	CLP-ME3-FT3035	100	A	10÷15	35	30-35	11
CLP1690	CLP-ME4-FT1822	100	A	15÷20	35	18-22	11
CLP1695	CLP-ME4-FT2230	100	A	15÷20	35	22-30	11
CLP1700	CLP-ME4-FT3035	100	A	15÷20	35	30-35	11

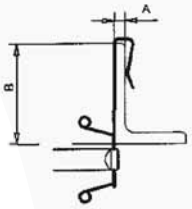




VERTICAL

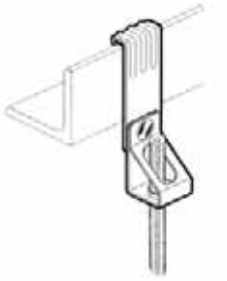
Code	Reference		F	A (mm)	B (mm)	CL (kg)
CLP1450	CLP-HK1	100	A	1,5÷5	30	70
CLP1455	CLP-HK2	100	A	5÷7	30	70
CLP1465	CLP-HK4	100	A	4÷10	60	70

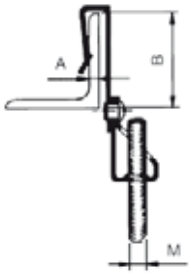




WITH TIE HANGER

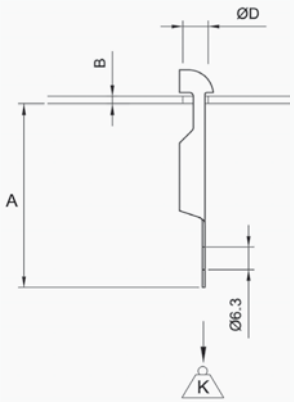
Code	Reference		F	A (mm)	B (mm)	CL (kg)
CLP1470	CLP-HK1-CT	100	A	1,5÷5	30	70
CLP1475	CLP-HK2-CT	100	A	5÷7	30	70
CLP1485	CLP-HK4-CT	100	A	4÷10	60	70

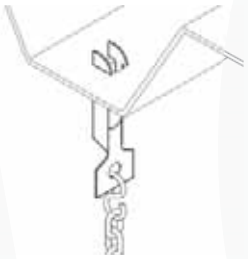




WITH THREADED ROD HANGER

Code	Reference		F	A (mm)	B (mm)	M	CL (kg)
CLP1490	CLP-HK1-BF6	100	A	1,5÷5	30	M6	70
CLP1495	CLP-HK2-BF6	100	A	5÷7	30	M6	70
CLP1505	CLP-HK4-BF6	100	A	4÷10	60	M6	70
CLP1510	CLP-HK1-BF8	100	A	1,5÷5	30	M8	70
CLP1515	CLP-HK2-BF8	100	A	5÷7	30	M8	70
CLP1525	CLP-HK4-BF8	100	A	4÷10	60	M8	70
CLP1530	CLP-HK1-BF10	100	A	1,5÷5	30	M10	70
CLP1535	CLP-HK2-BF10	100	A	5÷7	30	M10	70
CLP1545	CLP-HK4-BF10	100	A	4÷10	60	M10	70



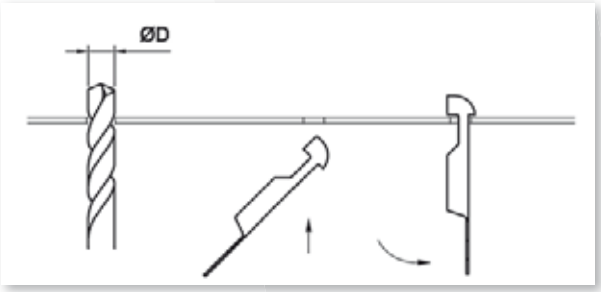


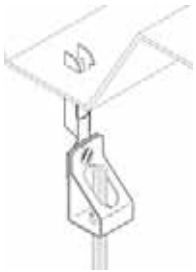
FOR METAL DECKING - WITH HOLE

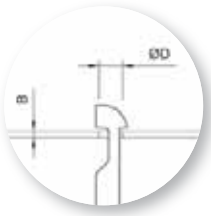
Code	Reference		F	B (mm)	Ø D (mm)	CM (kg)
CLP1820	CLP-H0	100	A	0,8-3	7-8	* see note

** For sheet thickness 0,8 mm to 2 mm - Max Load 45 kg*
For sheet thickness 2,1 mm to 3 mm - Max Load 68 kg

INSTALLATION INSTRUCTIONS







FOR METAL DECKING - FOR THREADED ROD

Code	Reference		F	B (mm)	Ø D (mm)	M	CM (kg)
CLP1825	CLP-HO-BF6	100	A	0,8-3	7-8	M 6	* see note
CLP1830	CLP-HO-BF8	100	A	0,8-3	7-8	M 8	* see note
CLP1835	CLP-HO-BF10	100	A	0,8-3	7-8	M 10	* see note

** For sheet thickness 0,8 mm to 2 mm - Max Load 45 kg*
For sheet thickness 2,1 mm to 3 mm - Max Load 68 kg

FOR METAL DECKING - FOR TAPE HANGER

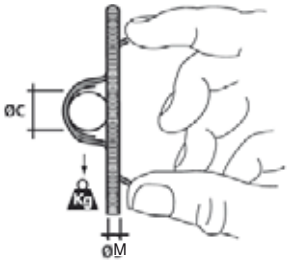
Code	Reference		F	B (mm)	Ø D (mm)	Slots (mm)	CM (kg)
CLP1840	CLP-HO-PB	100	A	0,8-3	7-8	28 x 6,5	* see note

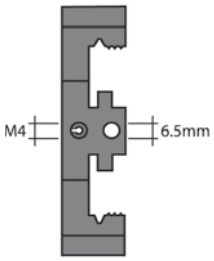
** For sheet thickness 0,8 mm to 2 mm - Max Load 45 kg*
For sheet thickness 2,1 mm to 3 mm - Max Load 68 kg

FOR METAL DECKING - FOR HANGER

Code	Reference		F	B (mm)	Ø D (mm)	Ø Rod (mm)	CM (kg)
CLP1845	CLP-HO-MP4	100	A	0,8-3	7-8	4	* see note
CLP1850	CLP-HO-MP6	100	A	0,8-3	7-8	6	* see note

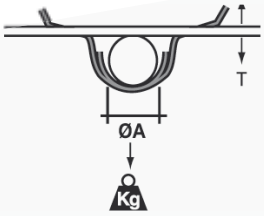
** For sheet thickness 0,8 mm to 2 mm - Max Load 45 kg*
For sheet thickness 2,1 mm to 3 mm - Max Load 68 kg

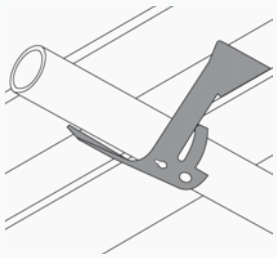




HOOK FOR THREADED ROD

Code	Reference		F	Ø C (mm)	CL (kg)	M
CLP1905	CLP-KTM-16-25-TB	50	A	20 Max	22	M6-M8-M10
CLP1910	CLP-KTM-20-38-TB	50	A	40 Max	22	M6-M8-M10





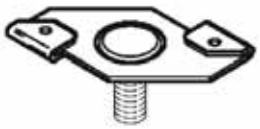
HOOK FOR PROFILE FOR PIPE

Code	Reference		F	T (mm)	Ø A (mm)	CL (kg)
CLP1905	CLP-KTM-16-25-TB	50	A	3 - 5	16 - 25	45
				6 - 9	16 - 20	45
				9 - 13	16	45
CLP1910	CLP-KTM-20-38-TB	50	A	3 - 5	28 - 38	45
				6 - 9	20 - 35	45
				9 - 13	20 - 30	45
				13 - 16	20 - 25	45
				16 - 20	20	45

T-profile hook for suspended ceiling
DIAMOND FASTENERS

WITH LOOP

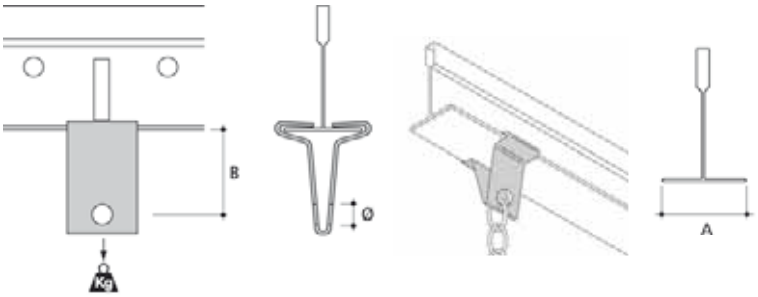
Code	Reference		F	A (mm)	Ø (mm)	CL (kg)
CLP1315	CLP-CFE	100	A	25	7	20
CLP1320	CLP-CFL	100	L	25	7	20



WITH SCREW

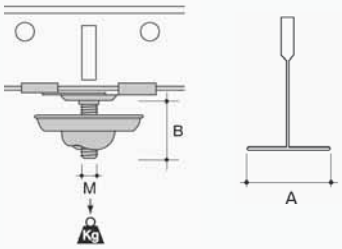
Code	Reference		F	A (mm)	M x L	CL (kg)
CLP1325	CLP-CFM11-E	100	A	25	M6x11	20
CLP1330	CLP-CFM16-E	100	A	25	M6x16	20
CLP1335	CLP-CFM25-E	100	A	25	M6x25	20
CLP1340	CLP-CFM11-L	100	L	25	M6x11	20
CLP1345	CLP-CFM16-L	100	L	25	M6x16	20
CLP1350	CLP-CFM25-L	100	L	25	M6x25	20

"SPIDER" FASTENERS



WITH LOOP

Code	Reference		F	A (mm)	B (mm)	Ø Hole (mm)	CL (kg)
CLP1726	CLP-CRE-TB	100	E	25	20	7	18
CLP1731	CLP-CRL-TB	100	L	25	20	7	18



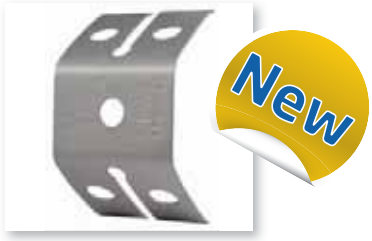
WITH SCREW

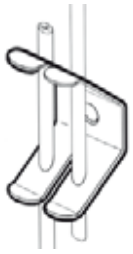
Code	Reference		F	A (mm)	B (mm)	CL (kg)
CLP1749	CLP-CFM16-L-TB	100	L	25	M6x16	9
CLP1741	CLP-CFM16-E-TB	100	E	25	M6x16	22
CLP1742	CLP-CFM38-E-TB	100	E	25	M6x38	22

Supplied with spring steel washer

SPRING STEEL WASHER

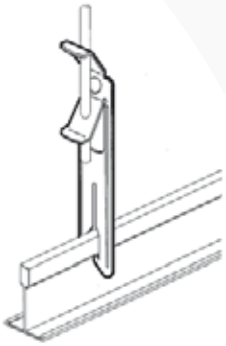
Code	Reference		F	Ø Ext. (mm)	M
CLP1810	CLP-RFP	100	A	33	M6

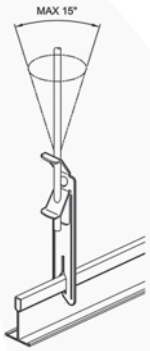




SPRING HANGER

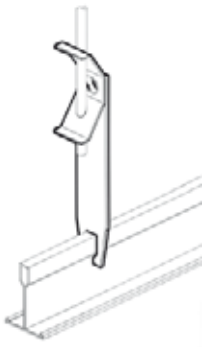
Code	Reference		F	Ø D (mm)	CM (kg)
CLP1855	CLP-MPD4	100	A	4	30
CLP1860	CLP-MPD6	100	A	6	30





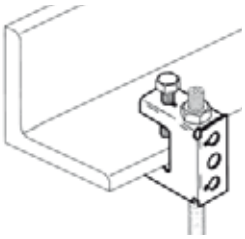
SUPPORT PROFILE - LIGHT LOADS

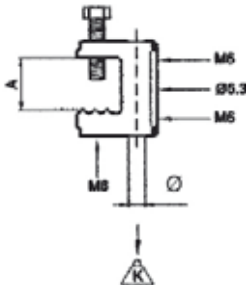
Code	Reference		F	Ø D (mm)	CM (kg)
CLP1865	CLP-CF-MPL	100	A	4	15



SUPPORT PROFILE - HEAVY LOADS

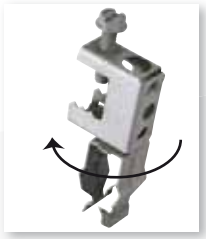
Code	Reference		F	Ø D (mm)	CM (kg)
CLP1870	CLP-CF-MPH4N	100	F	4	45
CLP1875	CLP-CF-MPH6N	100	F	6	45

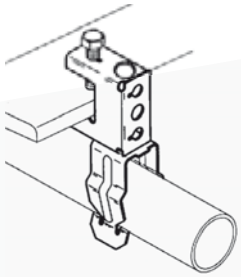




BASIC

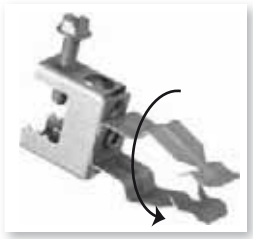
Code	Reference		F	A (mm)	Ø (mm)	CL (kg)
CLP1305	CLP-MBC	100	A	0÷16	10,5	45

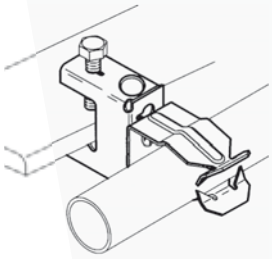




WITH VERTICAL PIPE FASTENER

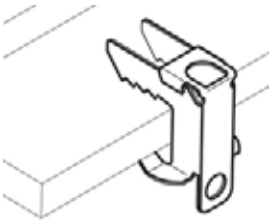
Code	Reference		F	A (mm)	Ø (mm)	CL (kg)
CLP1630	CLP-MBC-FTV1822	100	A	0÷16	18÷22	11
CLP1635	CLP-MBC-FTV2230	100	A	0÷16	22÷30	11
CLP1640	CLP-MBC-FTV3035	100	A	0÷16	30÷35	11

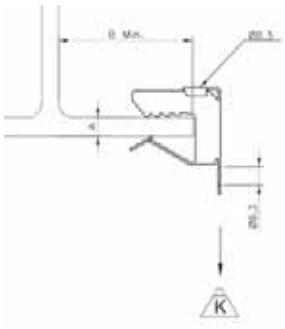




WITH HORIZONTAL PIPE FASTENER

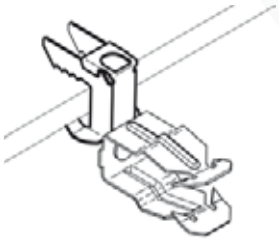
Code	Reference		F	A (mm)	Ø (mm)	CL (kg)
CLP1645	CLP-MBC-FTO1822	100	A	0÷16	18÷22	7
CLP1650	CLP-MBC-FTO2230	100	A	0÷16	22÷30	7
CLP1655	CLP-MBC-FTO3035	100	A	0÷16	30÷35	7





CLIP WITHOUT SCREW

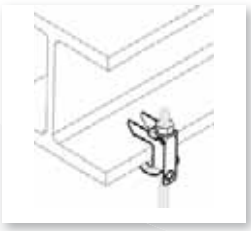
Code	Reference		F	A (mm)	B (mm)	CL (kg)
CLP2100	CLP- ΩJ1	100	A	3-8	25	120
CLP2105	CLP- ΩJ2	100	A	8-14	25	120
CLP2110	CLP- ΩJ3	100	A	14-20	25	120

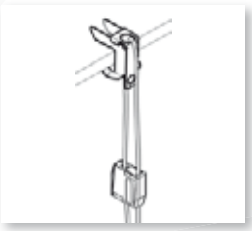


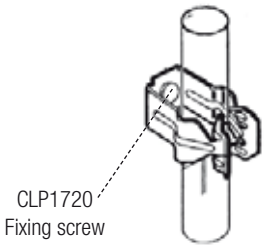
WITH HORIZONTAL PIPE FASTENER

Codice	Riferimento		F	A (mm)	B (mm)	Ø (mm)
CLP2000	CLP- ΩJ1-FTO1822	100	A	3-8	25	18-22
CLP2005	CLP- ΩJ1-FTO2230	100	A	3-8	25	22-30
CLP2010	CLP- ΩJ1-FTO3035	100	A	3-8	25	30-35
CLP2015	CLP- ΩJ2- FTO1822	100	A	8-14	25	18-22
CLP2020	CLP- ΩJ2- FTO2230	100	A	8-14	25	22-30
CLP2025	CLP- ΩJ2- FTO3035	100	A	8-14	25	30-35
CLP2030	CLP- ΩJ3- FTO1822	100	A	14-20	25	18-22
CLP2035	CLP- ΩJ3- FTO2230	100	A	14-20	25	22-30
CLP2040	CLP- ΩJ3- FTO3035	100	A	14-20	25	30-35

APPLICATIONS



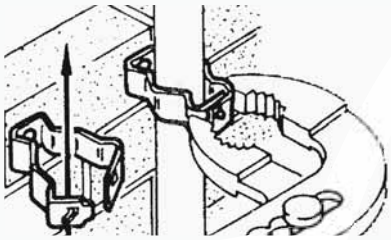




PIPE FASTENER

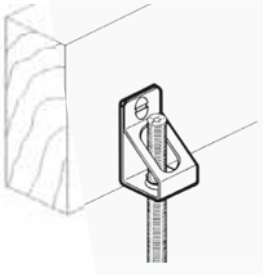
Code	Reference		F	Ø (mm)	CL (kg)
CLP1705	CLP-FT1822	100	A	18-22	11
CLP1710	CLP-FT2230	100	A	22-30	11
CLP1715	CLP-FT3035	100	A	30-35	11
CLP1720	CLP-VDM6	100	E		

** M6 screw with nut*



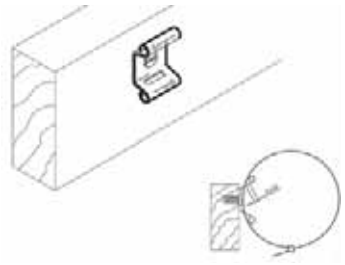
"LOCK" PIPE FASTENER

Code	Reference		F	Ø (mm)	CL (kg)
CLP1750	CLP-FTP14	50	A	14	10
CLP1755	CLP-FTP22	50	A	22	10
CLP1760	CLP-FTP28	50	A	28	10
CLP1765	CLP-FTP36	50	A	36	10



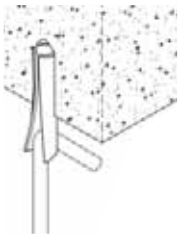
FOR THREADED ROD

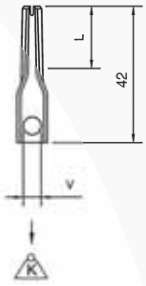
Code	Reference		F	M	CL (kg)
CLP1915	CLP-BF-M6	100	A	M6	70
CLP1920	CLP-BF-M8	100	A	M8	70
CLP1925	CLP-BF-M10	100	A	M10	70



TIE HOLDER

Code	Reference		F	C x D (mm)	CL (kg)
CLP1930	CLP-CT	100	A	3 x 10	15



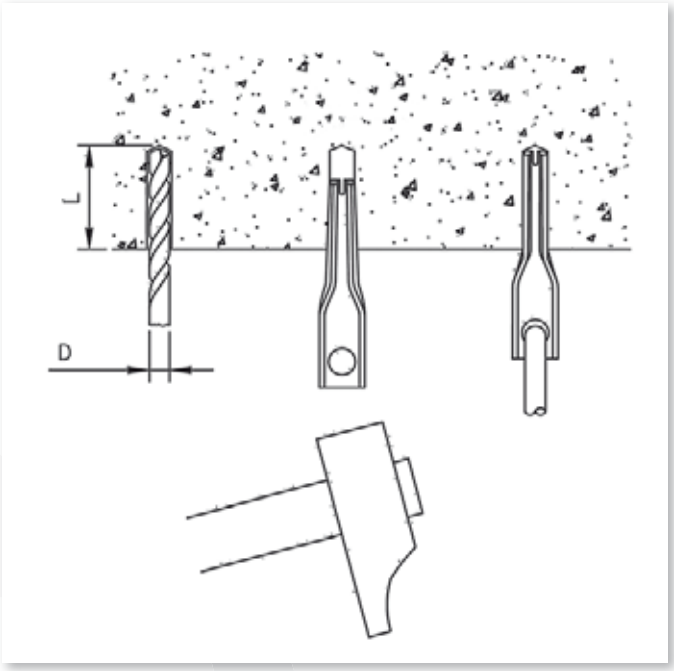


HAMMER PLUG

Code	Reference		F	Ø V (mm)	L min (mm)	Ø D (mm)	CL (kg)
CLP1815	CLP-TP4	100	F	4	20	8	40

INSTALLATION INSTRUCTIONS

For usage on concrete or solid bricks.



Ω STRUT - Brackets and Cantilevers Profiles

Product Characteristics

Laying cable trunking is one of the most expensive items for industrial electric plant fitters. This issue led to the creation of alternative Fastening Systems aiming fitting simplicity and quickness. Stimulated by registered progress in the north of Europe, Teknomega looked for innovative solutions whose purpose was to give more and more flexible answers to the needs of modern plant engineering.

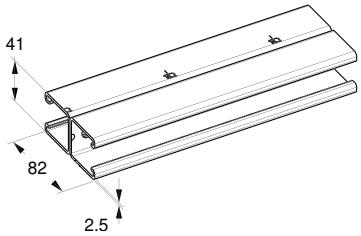
Ω STRUT

Today, still, Fastening Systems are not adequately held in consideration in industrial plant engineering. Their huge impact in terms of costs is weighted only at works ended, when it is too late to fix the problem. When proven specialists are called in during design, there are no improvised and unlikely fastenings, often built without a specific technical knowledge. Specialists such as Teknomega can guide the installer towards more efficient solutions, such as those proposed by the "Ω STRUT" family. This range consists in a series of complementary products: profiles (channels), various types of cantilevers and connection brackets which, almost like a "Meccano", create truly quick and safe fastening structures. Another peculiarity of the "Ω STRUT" range, is the great versatility of its accessories, such as collars, threaded rods, and chains, which can be fitted both on concrete carrying structures and on metal beams.

Please note: On request basis, and according to the minimun quantity required, Sendzmir profiles could be provided also with powder coated finish.

New

41x41 double 2.5 mm thickness - Slotted



PREGALVANIZED

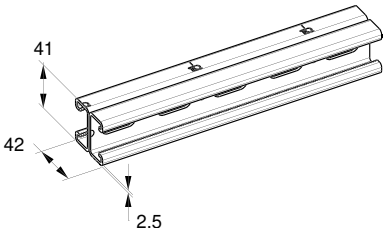
Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1085	PRF-A3D-SF	S	3	15,60	30x11	50	1	14
PRF1090	PRF-A4D-SF	S	4	20,80	30x11	50	1	14
PRF1095*	PRF-A6D-SF	S	6	31,20	30x11	50	1	14

HOT-DIP GALVANIZED

Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1105	PRF-A3D-ZF	Z	3	15,60	30x11	50	1	14
PRF1110	PRF-A4D-ZF	Z	4	20,80	30x11	50	1	14
PRF1115*	PRF-A6D-ZF	Z	6	31,20	30x11	50	1	14

** Upon request*

41x21 double 2.5 mm thickness - Slotted



PREGALVANIZED

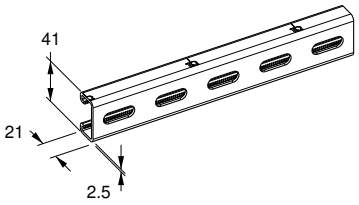
Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1275	PRF-B3D-S	S	3	10,40	30x11	50	1	30
PRF1280	PRF-B4D-S	S	4	13,90	30x11	50	1	30
PRF1285*	PRF-B6D-S	S	6	20,80	30x11	50	1	30

HOT-DIP GALVANIZED

Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1295	PRF-B3D-Z	Z	3	10,40	30x11	50	1	30
PRF1300	PRF-B4D-Z	Z	4	13,90	30x11	50	1	30
PRF1305*	PRF-B6D-Z	Z	6	20,80	30x11	50	1	30

** Upon request*

41x21 2.5 mm thickness - Slotted



PREGALVANIZED

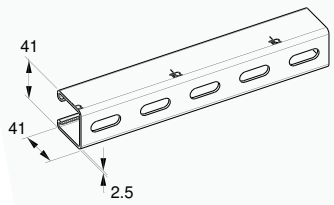
Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1125	PRF-B3-SF	S	3	5,1	30x11	50	1	30
PRF1130	PRF-B4-SF	S	4	6,8	30x11	50	1	30
PRF1135*	PRF-B6-SF	S	6	10,2	30x11	50	1	30

HOT-DIP GALVANIZED

Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1145	PRF-B3-ZF	Z	3	5,1	30x11	50	1	30
PRF1150	PRF-B4-ZF	Z	4	6,8	30x11	50	1	30
PRF1155*	PRF-B6-ZF	Z	6	10,2	30x11	50	1	30

**Upon request*

41x41 2.5 mm thickness - Slotted



PREGALVANIZED

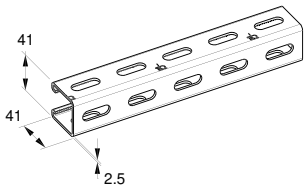
Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1165	PRF-A3-SF	S	3	7,7	30x11	50	1	30
PRF1170	PRF-A4-SF	S	4	10,2	30x11	50	1	30
PRF1175*	PRF-A6-SF	S	6	15,3	30x11	50	1	30

HOT-DIP GALVANIZED

Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1185	PRF-A3-ZF	Z	3	7,7	30x11	50	1	30
PRF1190	PRF-A4-ZF	Z	4	10,2	30x11	50	1	30
PRF1195*	PRF-A6-ZF	Z	6	15,3	30x11	50	1	30

**Upon request*

41x41 2.5 mm thickness - Slots on 3 sides



PREGALVANIZED

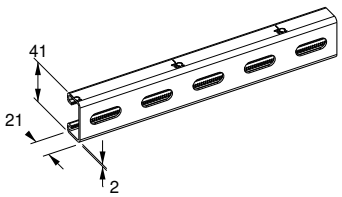
Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1205	PRF-A3-SF3	S	3	7,5	30x11	50	1	30
PRF1210	PRF-A4-SF3	S	4	10,0	30x11	50	1	30
PRF1215*	PRF-A6-SF3	S	6	15,0	30x11	50	1	30

HOT-DIP GALVANIZED

Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1225	PRF-A3-ZF3	Z	3	7,5	30x11	50	1	30
PRF1230	PRF-A4-ZF3	Z	4	10,0	30x11	50	1	30
PRF1235*	PRF-A6-ZF3	Z	6	15,0	30x11	50	1	30

** Upon request*

41x21 2 mm thickness - Slotted



PREGALVANIZED

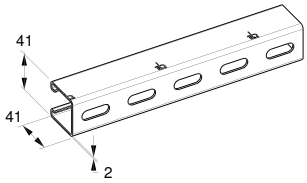
Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1500	PRF-RB3-SF	S	3	4,3	30x11	50	1	30
PRF1505	PRF-RB4-SF	S	4	5,7	30x11	50	1	30
PRF1510*	PRF-RB6-SF	S	6	8,6	30x11	50	1	30

HOT-DIP GALVANIZED

Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1515	PRF-RB3-ZF	Z	3	4,3	30x11	50	1	30
PRF1520	PRF-RB4-ZF	Z	4	5,7	30x11	50	1	30
PRF1525*	PRF-RB6-ZF	Z	6	8,6	30x11	50	1	30

** Upon request*

41x41 2 mm thickness - Slotted



PREGALVANIZED

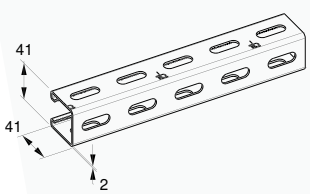
Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1530	PRF-RA3-SF	S	3	6,2	30x11	50	1	30
PRF1535	PRF-RA4-SF	S	4	8,2	30x11	50	1	30
PRF1540*	PRF-RA6-SF	S	6	12,4	30x11	50	1	30

HOT-DIP GALVANIZED

Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1545	PRF-RA3-ZF	Z	3	6,2	30x11	50	1	30
PRF1550	PRF-RA4-ZF	Z	4	8,2	30x11	50	1	30
PRF1555*	PRF-RA6-ZF	Z	6	12,4	30x11	50	1	30

** Upon request*

41x41 2 mm thickness - Slots on 3 sides



PREGALVANIZED

Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1560	PRF-RA3-SF3	S	3	5,6	30x11	50	1	30
PRF1565	PRF-RA4-SF3	S	4	7,5	30x11	50	1	30
PRF1570*	PRF-RA6-SF3	S	6	11,2	30x11	50	1	30

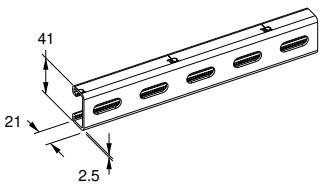
HOT-DIP GALVANIZED

Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF1575	PRF-RA3-ZF3	Z	3	5,6	30x11	50	1	30
PRF1580	PRF-RA4-ZF3	Z	4	7,5	30x11	50	1	30
PRF1585*	PRF-RA6-ZF3	Z	6	11,2	30x11	50	1	30

** Upon request*

41x21 2.5 mm thickness - Slotted

New

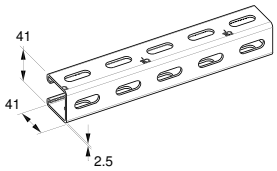


MAGNELIS®

Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF2000	PRF-B3-MF3	M	3	5,1	30x11	50	1	30

41x41 2.5 mm thickness - Slots on 3 sides

New



MAGNELIS®

Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF2100	PRF-A3-MF3	M	3	7,5	30x11	50	1	30

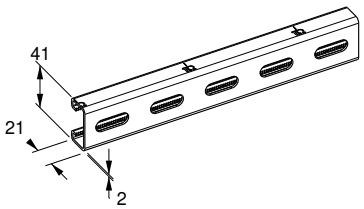
MAGNELIS®

A new anti corrosion solution for maximized protection even in aggressive environments.

Magnelis®, anti corrosion treatment, is obtained in a molten bath composed by zinc, aluminum, and n important 3% of Magnesium, which creates a stable and durable layer across the entire surface. Magnelis® has a natural dark grey, spangle-free smooth aesthetic aspect, without the tipycal imperfection of HDG. Magnelis® offers a real advantage over post-galvanised products and even over stainless and aluminium. Magnelis® layer is "self-generating" and protects scratchs, cuts, or holes made after processing. It creates as well a better barrier in an ammonia environment. Magnelis® ensures an exceptional resistance against first corrosion: test made over a period of 8 months have underlined its superiority compared to electrolitic galvanisation, HDG, Aluzinc, etc. Thanks to its highly resistant, adherent metallic layer, Magnelis® can be formed in a variety of methods, such as bending, drawing, profiling etc.

For any further technical information please contact our offices.

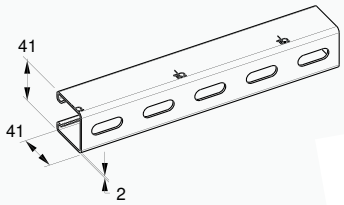
41x21 2 mm thickness - Slotted



STAINLESS STEEL

Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF9004	PRF-B3-SSF	SS	3	4,4	20x11	50	1	30

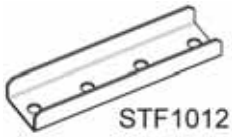
41x41 2 mm thickness - Slotted

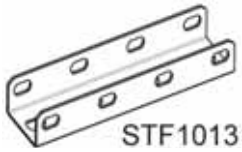


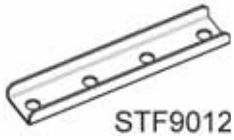
STAINLESS STEEL

Code	Reference	F	L (m)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)		
PRF9000	PRF-A3-SSF	SS	3	6,2	20x11	50	1	30

Joints for channel



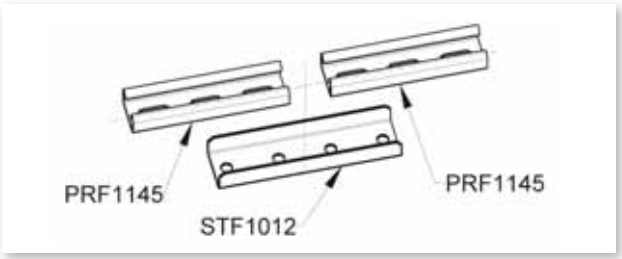


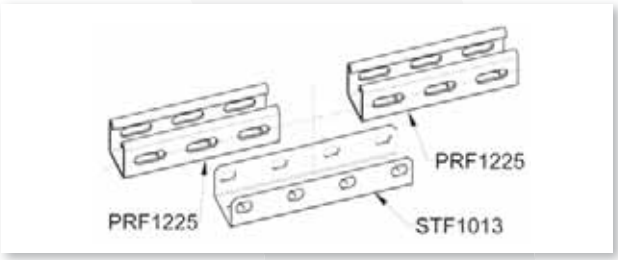


STAINLESS STEEL

Code	Reference	To be used for	F	
STF1012	STF-GI-PB-Inox	41x21	SS	20
STF1013	STF-GI-PA-Inox	41x41	SS	20
NEW **STF9012**	STF-GI-PD-Inox	41x41 double	SS	20

INSTALLATION EXAMPLES





TECHNICAL NOTES FOR HOT-DIP GALVANIZATION

Hot-dip galvanizing is one of the best methods for the protection of steel components. With the hot-dip galvanizing the results is a protection barrier and also a galvanic protection. Corrosion in time of the protective zinc layer and mainly influenced by the duration of exposure to moisture and surface contamination. Products made with hot-dip galvanizing as surface finishing, are made in compliance with technical requirements and following international standards: UNI EN ISO 1461: hot-dip galvanizing - specifications and test methods. UNI EN ISO 14713: hot-dip galvanizing - guidelines.

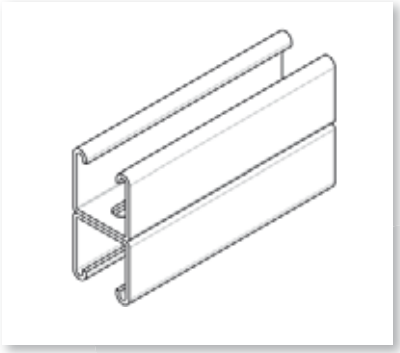
The following tables, taken from the UNI EN ISO 1461 standards represent the minimum thickness that can be obtained and the typical duration for steel components protected from the treatment of hot-dip galvanizing.

Part thickness	Average thickness of the coating (minimum) [µm]
Steel ≥ 6 mm	85
Steel ≥ 3 mm up to < 6 mm	70
Steel ≥ 1,5 mm up to < 3 mm	55
Steel < 1,5 mm	45

Code	Corrosion class	Loss of zinc thick [µm/year]
C1	Dry indoor environment	≤ 0,1
C2	Rural environment	from 0,1 to 0,7
C3	Urban environment	from 0,7 to 2
C4	Industrial environment	from 2 to 4
C5	Industrial area with high humidity - Coast or offshore area	from 4 to 8

Hot-dip galvanized steel profiles

Material: Galvanized FeP02 Steel UNI EN 10111-2008		
Specific weight	78,5	KN/m³
Longitudinal elasticity module	210000	N/mm²
Tangential elasticity module	79000	N/mm²
Linear thermal dilatation coefficient	1,2*10⁻⁵	1/°C
Resistance to the last limit fy	-	N/mm²
Resistance to the yield strength limit fy	430	N/mm²
Resistance to the yield limit f0,2	190	N/mm²



41x41 double 2.5 mm thickness - Slotted			
Mechanical features			
Section area	A	608,88	mm²
Linear meter weight	pp	4,78	daN/m
Moment of inertia X	Jx	359936,00	mm⁴
Moment of inertia Y	Jy	180906,51	mm⁴
Resistant moment X	Wx	8778,93	mm³
Resistant moment Y	Wy	4412,35	mm³
Inertia ray X	ix	24,31	mm
Inertia ray Y	iy	17,24	mm

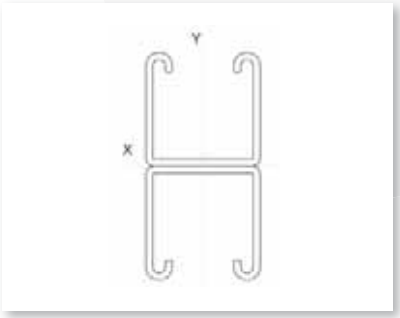
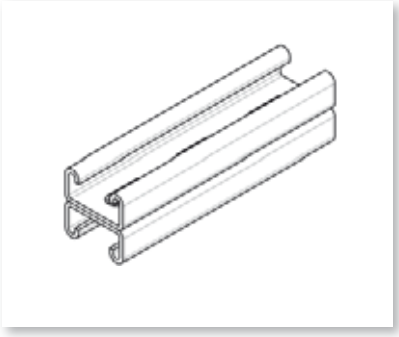


Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	5337,59	1334,40
1000	1334,4	667,20
2000	290,25	333,60
3000	86,00	161,25
4000	36,28	90,70
5000	18,58	58,05
6000	10,75	40,31



41x21 double 2.5 mm thickness - Slotted			
Mechanical features			
Section area	A	408,88	mm²
Linear meter weight	pp	3,21	daN/m
Moment of inertia X	Jx	61187,85	mm⁴
Moment of inertia Y	Jy	106689,85	mm⁴
Resistant moment X	Wx	2913,71	mm³
Resistant moment Y	Wy	5080,47	mm³
Inertia ray X	ix	12,23	mm
Inertia ray Y	iy	16,15	mm

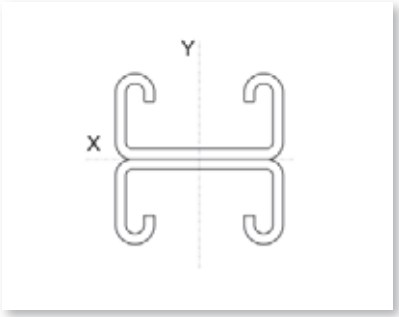
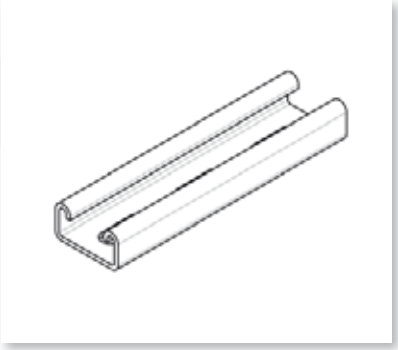


Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	1771,53	442,88
750	787,35	295,26
1000	394,74	221,44
1250	202,10	157,89
1500	116,96	109,65
1750	73,65	80,56
2000	49,34	61,68

Hot-dip galvanized steel profiles

Material: Galvanized FeP02 Steel UNI EN 10111-2008		
Specific weight	78,5	KN/m³
Longitudinal elasticity module	210000	N/mm²
Tangential elasticity module	79000	N/mm²
Linear thermal dilatation coefficient	1,2*10-5	1/°C
Resistance to the last limit fy	-	N/mm²
Resistance to the yield strength limit fy	430	N/mm²
Resistance to the yield limit f0,2	190	N/mm²



41x21 2.5 mm thickness - Slotted			
Mechanical features			
Section area	A	204,44	mm²
Linear meter weight	pp	1,60	daN/m
Moment of inertia X	Jx	11295,41	mm⁴
Moment of inertia Y	Jy	53344,92	mm⁴
Resistant moment X	Wx	10000,99	mm³
Resistant moment Y	Wy	2602,19	mm³
Inertia ray X	ix	7,43	mm
Inertia ray Y	iy	16,15	mm

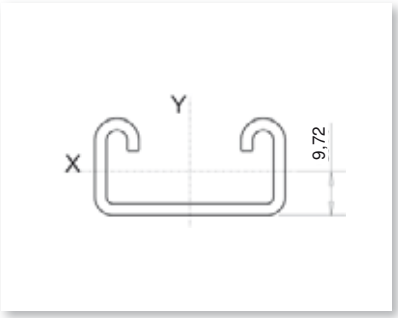
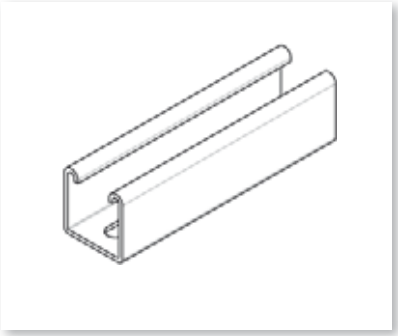


Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	582,95	152,15
750	172,73	80,97
1000	72,87	45,54
1250	37,31	29,15
1500	21,59	20,24
1750	13,60	14,87
2000	9,11	11,39



41x41 2.5 mm thickness - Slotted			
Mechanical features			
Section area	A	304,44	mm²
Linear meter weight	pp	2,39	daN/m
Moment of inertia X	Jx	63108,85	mm⁴
Moment of inertia Y	Jy	90453,26	mm⁴
Resistant moment X	Wx	2947,91	mm³
Resistant moment Y	Wy	4225,21	mm³
Inertia ray X	ix	14,40	mm
Inertia ray Y	iy	17,24	mm

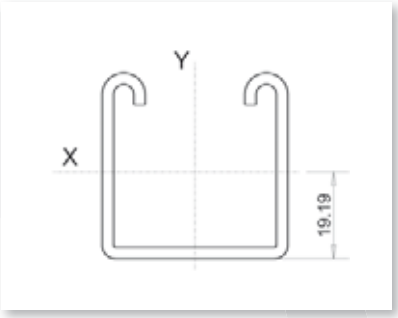
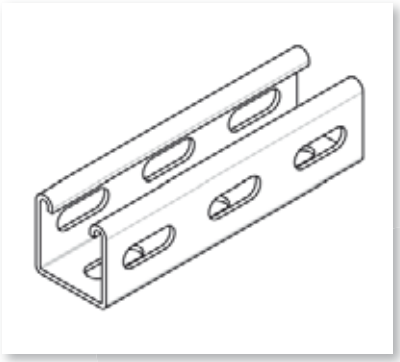


Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	1792,33	448,08
750	786,59	298,72
1000	407,13	224,04
1250	208,45	162,85
1500	120,63	113,09
1750	75,97	83,09
2000	50,89	63,61

Hot-dip galvanized steel profiles

Material: Galvanized FeP02 Steel UNI EN 10111-2008		
Specific weight	78,5	KN/m³
Longitudinal elasticity module	210000	N/mm²
Tangential elasticity module	79000	N/mm²
Linear thermal dilatation coefficient	1,2*10^{-5}	1/°C
Resistance to the last limit fy	-	N/mm²
Resistance to the yield strength limit fy	430	N/mm²
Resistance to the yield limit f0,2	190	N/mm²



41x41 2.5 mm thickness - Slots on 3 sides			
Mechanical features			
Section area	A	249,44	mm²
Linear meter weight	pp	1,96	daN/m
Moment of inertia X	Jx	62498,93	mm⁴
Moment of inertia Y	Jy	70043,67	mm⁴
Resistant moment X	Wx	2892,37	mm³
Resistant moment Y	Wy	3241,53	mm³
Inertia ray X	ix	15,83	mm
Inertia ray Y	iy	16,76	mm

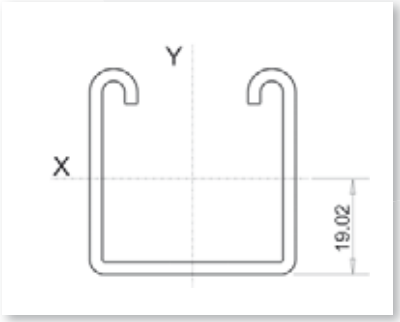
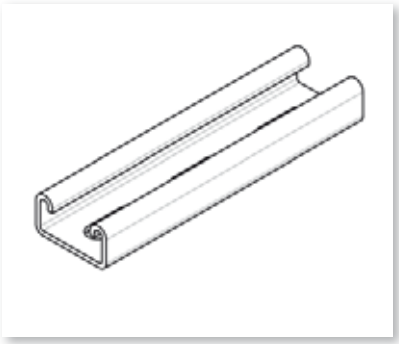


Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	1758,56	439,64
750	781,58	293,09
1000	403,19	219,82
1250	206,43	161,28
1500	119,46	112,00
1750	75,23	82,28
2000	50,40	63,00



41x21 2 mm thickness - Slotted			
Mechanical features			
Section area	A	170,84	mm²
Linear meter weight	pp	1,34	daN/m
Moment of inertia X	Jx	10000,81	mm⁴
Moment of inertia Y	Jy	45364,89	mm⁴
Resistant moment X	Wx	8959,94	mm³
Resistant moment Y	Wy	2212,92	mm³
Inertia ray X	ix	24,19	mm
Inertia ray Y	iy	16,30	mm

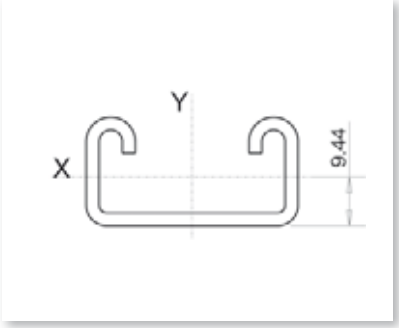
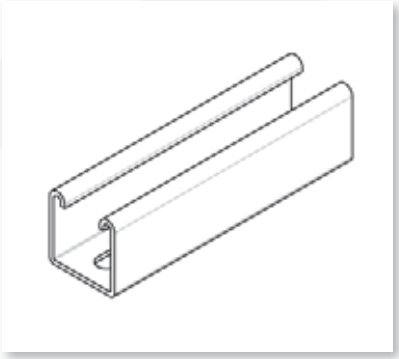


Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	516,14	136,19
750	152,93	71,69
1000	64,52	40,32
1250	33,03	25,81
1500	19,12	17,92
1750	12,04	13,17
2000	8,06	10,08

Hot-dip galvanized steel profiles

Material: Pregalvanized steel UNI EN 10346-2009		
Specific weight	78,5	KN/m³
Longitudinal elasticity module	210000	N/mm²
Tangential elasticity module	79000	N/mm²
Linear thermal dilatation coefficient	1,2*10-5	1/°C
Resistance to the last limit fy	-	N/mm²
Resistance to the yield strength limit fy	430	N/mm²
Resistance to the yield limit f0,2	190	N/mm²



41x41 2 mm thickness - Slotted			
Mechanical features			
Section area	A	250,84	mm²
Linear meter weight	pp	1,97	daN/m
Moment of inertia X	Jx	53935,51	mm⁴
Moment of inertia Y	Jy	75811,55	mm⁴
Resistant moment X	Wx	2541,24	mm³
Resistant moment Y	Wy	3571,96	mm³
Inertia ray X	ix	14,66	mm
Inertia ray Y	iy	17,38	mm

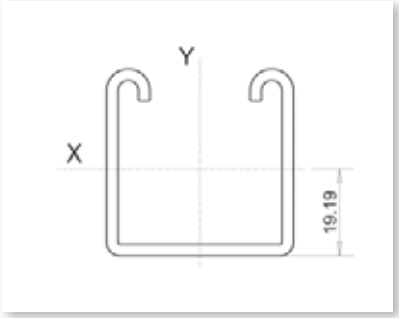
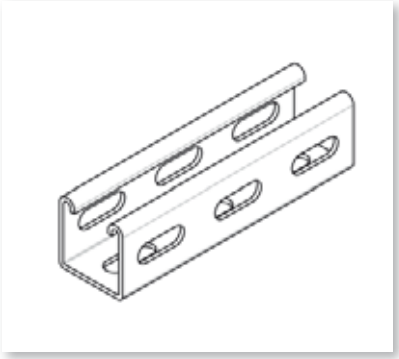


Table of the allowable loads (with Fmax < L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	1545,07	386,27
750	686,70	257,51
1000	347,70	193,13
1250	178,15	139,18
1500	103,10	96,65
1750	64,92	71,01
2000	43,49	54,37



41x41 2 mm thickness - Slots on 3 sides			
Mechanical features			
Section area	A	206,84	mm²
Linear meter weight	pp	1,62	daN/m
Moment of inertia X	Jx	53463,86	mm⁴
Moment of inertia Y	Jy	59065,89	mm⁴
Resistant moment X	Wx	2500,87	mm³
Resistant moment Y	Wy	2762,92	mm³
Inertia ray X	ix	16,08	mm
Inertia ray Y	iy	16,90	mm

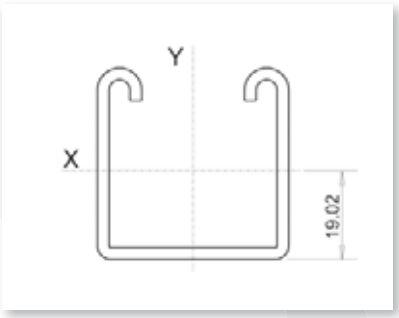
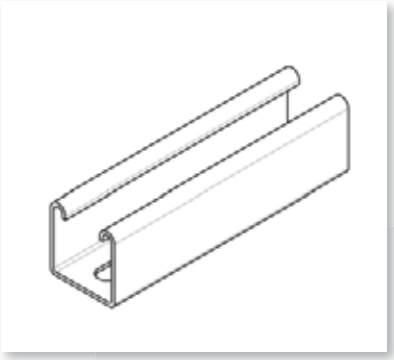


Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	1520,53	380,13
750	675,79	253,42
1000	344,91	190,07
1250	176,59	137,96
1500	102,19	95,18
1750	64,36	70,39
2000	43,11	53,89

Stainless steel profiles

Material: Stainless Steel AISI 304 n. 1.4301 EN 10088-3 2005		
Specific weight	79,1	KN/m^3
Longitudinal elasticity module	196000	N/mm^2
Tangential elasticity module	86000	N/mm^2
Linear thermal dilatation coefficient	1,65*10^{-5}	1/°C
Resistance to the last limit fy	500	N/mm^2
Resistance to the yield strength limit fy	430	N/mm^2
Resistance to the yield limit f0,2	190	N/mm^2



41x41 2 mm thickness - Slotted			
Mechanical features			
Section area	A	250,23	mm^2
Linear meter weight	pp	1,98	daN/m
Moment of inertia X	Jx	52501,29	mm^4
Moment of inertia Y	Jy	75547,03	mm^4
Resistant moment X	Wx	2414,95	mm^3
Resistant moment Y	Wy	3685,22	mm^3
Inertia ray X	ix	14.48	mm
Inertia ray Y	iy	17,38	mm

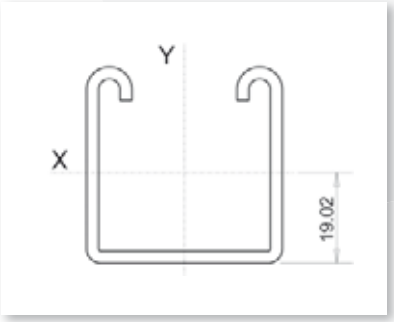
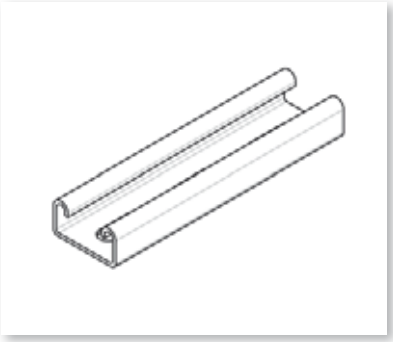


Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	1468,29	367,07
750	652,57	244,72
1000	316,12	183,54
1250	161,85	126,45
1500	93,66	87,81
1750	58,98	64,51
2000	39,51	49,39



41x21 2 mm thickness - Slotted			
Mechanical features			
Section area	A	170,23	mm^2
Linear meter weight	pp	1,35	daN/m
Moment of inertia X	Jx	9417,69	mm^4
Moment of inertia Y	Jy	45100,36	mm^4
Resistant moment X	Wx	810,52	mm^3
Resistant moment Y	Wy	2200,02	mm^3
Inertia ray X	ix	7,44	mm
Inertia ray Y	iy	16,28	mm

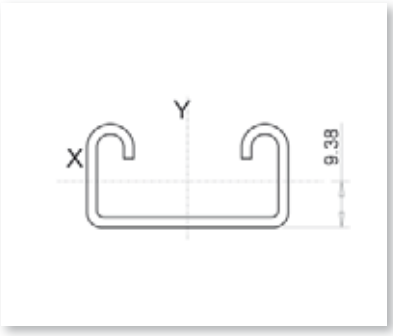
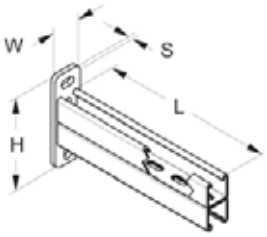


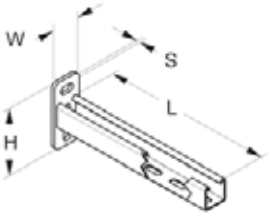
Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	453,64	123,20
750	134,41	63,01
1000	56,71	35,44
1250	29,03	22,68
1500	16,80	15,75
1750	10,58	11,57
2000	7,09	8,86

41x41 double slotted channel cantilever



Code	Reference		F	L (mm)	Weight (kg)	Thk. (mm)	Slot dim. (mm)	Plate size	
								HxWxS (mm)	Slots (mm)
MSL1000	MSL-P300-D-Z	6	Z	300	2,14	2,5	30x11	160x50x8	14x25
MSL1005	MSL-P400-D-Z	6	Z	400	2,68	2,5	30x11	160x50x8	14x25
MSL1010	MSL-P500-D-Z	6	Z	500	3,21	2,5	30x11	160x50x8	14x25
MSL1015	MSL-P600-D-Z	1	Z	600	3,76	2,5	30x11	160x50x8	14x25
MSL1020	MSL-P750-D-Z	1	Z	750	4,57	2,5	30x11	160x50x8	14x25
MSL1030	MSL-P900-D-Z	1	Z	900	4,91	2,5	30x11	160x50x8	14x25
MSL1035	MSL-P1000-D-Z	1	Z	1000	5,91	2,5	30x11	160x50x8	14x25

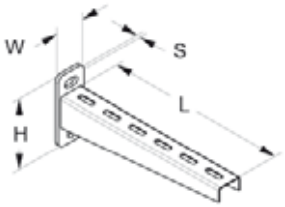
41x41 slotted channel cantilever



Code	Reference		F	L (mm)	Weight (kg)	Thk. (mm)	Slot dim. (mm)	Plate size	
								HxWxS (mm)	Slots (mm)
MSL1040	MSL-P150-F-Z	10	Z	150	0,69	2,5	30x11	120x50x6	14x25
MSL1045	MSL-P200-F-Z	10	Z	200	0,82	2,5	30x11	120x50x6	14x25
MSL1050	MSL-P300-F-Z	10	Z	300	1,09	2,5	30x11	120x50x6	14x25
MSL1055	MSL-P450-F-Z	6	Z	450	1,73	2,5	30x11	160x50x8	14x25
MSL1060	MSL-P500-F-Z	6	Z	500	1,86	2,5	30x11	160x50x8	14x25
MSL1065	MSL-P600-F-Z	1	Z	600	2,13	2,5	30x11	160x50x8	14x25
MSL1070	MSL-P750-F-Z	1	Z	750	2,53	2,5	30x11	160x50x8	14x25
MSL1071	MSL-P900-F-Z	1	Z	900	2,94	2,5	30x11	160x50x8	14x25
MSL1072	MSL-P1000-F-Z	1	Z	1000	3,21	2,5	30x11	160x50x8	14x25

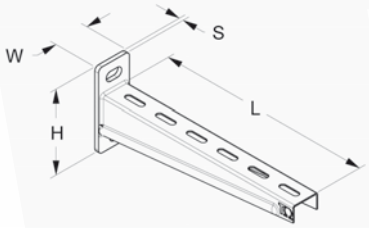
Please note: Channel cantilevers, accordingly to the minimun quantity required, could be provided as per Customer's specifications.

Shaped Cantilever - Electrolytic galvanizing



Code	Reference		F	L (mm)	Weight (kg)	Thk. (mm)	Slot dim. (mm)	Plate size	
								HxWxS (mm)	Slots (mm)
MSL1500	MSL-L110-F-E	20	E	110	0,43	1,8	30x9	120x50x6	14x25
MSL1505	MSL-L160-F-E	20	E	160	0,50	1,8	30x9	120x50x6	14x25
MSL1510	MSL-L210-F-E	20	E	210	0,59	1,8	30x9	120x50x6	14x25
MSL1515	MSL-L310-F-E	20	E	310	0,79	1,8	30x9	120x50x6	14x25
MSL1520	MSL-L410-F-E	20	E	410	1,24	1,8	30x9	160x50x6	14x25
MSL1525	MSL-L510-F-E	10	E	510	1,50	1,8	30x9	160x50x8	14x25
MSL1530	MSL-L610-F-E	10	E	610	1,79	1,8	30x9	160x50x8	14x25

Shaped Cantilever - Hot-dip galvanized



Code	Reference		F	L (mm)	Weight (kg)	Thk. (mm)	Slot dim. (mm)	Plate size	
								HxWxS (mm)	Slots (mm)
MSL2000	MSL-L110-FC-Z	20	Z	110	0,43	1,8	30x9	120x50x6	14x25
MSL2005	MSL-L160-FC-Z	20	Z	160	0,50	1,8	30x9	120x50x6	14x25
MSL2010	MSL-L210-FC-Z	20	Z	210	0,59	1,8	30x9	120x50x6	14x25
MSL2015	MSL-L310-FC-Z	20	Z	310	0,79	1,8	30x9	120x50x6	14x25
MSL2020	MSL-L410-FC-Z	20	Z	410	1,24	1,8	30x9	160x50x6	14x25
MSL2025	MSL-L510-FC-Z	10	Z	510	1,50	1,8	30x9	160x50x8	14x25
MSL2030	MSL-L610-FC-Z	10	Z	610	1,79	1,8	30x9	160x50x8	14x25

Loading for range of cantilevers - expressed in kg

CHANNEL CANTILEVERS 41x41 DOUBLE - 2.5 mm thickness			
Code	Length (mm)	Max. central load	Cape load
MSL1000	300	850	410
MSL1005	400	655	310
MSL1010	500	525	245
MSL1015	600	420	205
MSL1020	750	335	168
MSL1030	900	285	132
MSL1035	1000	245	108

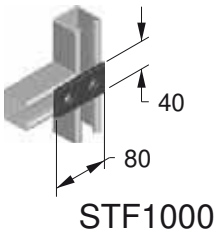
CHANNEL CANTILEVERS 41x41 2.5 mm thickness			
Code	Length (mm)	Max. central load	Cape load
MSL1040	150	608	280
MSL1045	200	420	180
MSL1050	300	290	150
MSL1055	450	200	90
MSL1060	500	180	80
MSL1065	600	140	58
MSL1070	750	100	53
MSL1071	900	70	30
MSL1072	1000	52	20

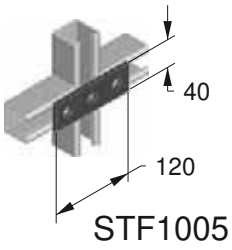
CABLE TRAY CANTILEVER			
Code	Length (mm)	Max. central load	Cape load
MSL1500	110	343	219
MSL1505	160	315	157
MSL1510	210	238	120
MSL1515	310	188	117
MSL1520	410	152	71
MSL1525	510	140	67
MSL1530	610	121	80

SLOTTED REINFORCED CANTILEVER ARM			
Code	Length (mm)	Max. central load	Cape load
MSL2000	110	343	219
MSL2005	160	315	157
MSL2010	210	238	120
MSL2015	310	188	117
MSL2020	410	152	71
MSL2025	510	140	67
MSL2030	610	121	80

Please note: upon request, results of the load test reports can be provided.

Thickness 6 mm - Hole diameter 14 mm

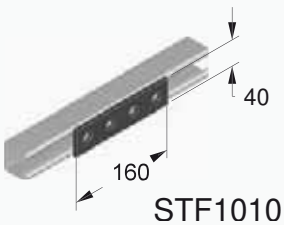


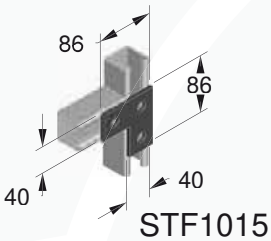


FLAT BRACKETS - TYPE "P"

Code	Reference	
STF1000	STF-P2	10

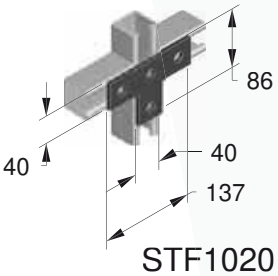
Code	Reference	
STF1005	STF-P3	10

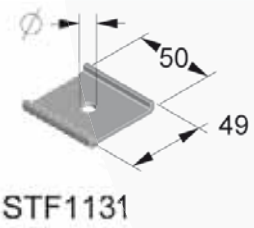




Code	Reference	
STF1010	STF-P4	10

Code	Reference	
STF1015	STF-PL3	10





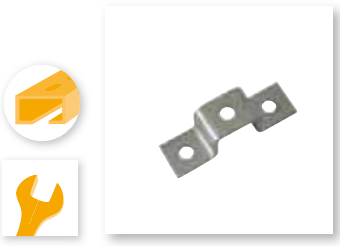
Code	Reference	
STF1020	STF-PT4	10

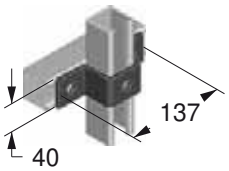
PLATES FOR CHANNELS

Code	Reference	Ø (mm)	
***STF1131**	STF-PP9-E	9	50
STF1135	STF-PP13,5	13,5	50

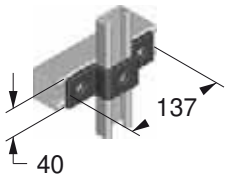
** Finishing with electroplating zinc*

Thickness 6 mm - Hole diameter 14 mm





STF1025

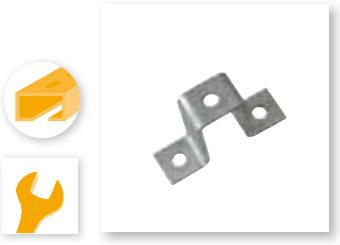


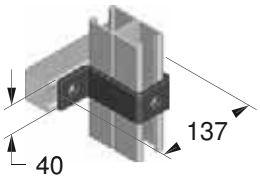
STF1030

OMEGA BRACKETS - TYPE "O"

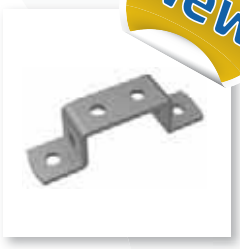
Code	Reference	
STF1025	STF-041	10

Code	Reference	
STF1030	STF-021	10

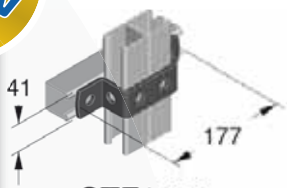




STF1035



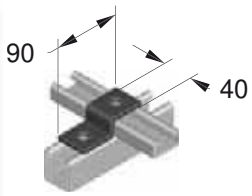
New



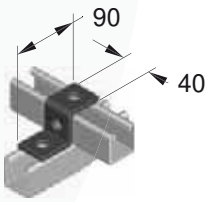
STF1036

Code	Reference	
STF1035	STF-082	10

Code	Reference	
STF1036	STF-082-0	10



STF1040



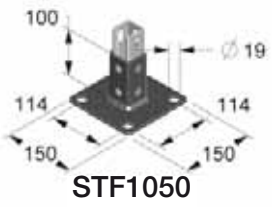
STF1045

INTERSECTION BRACKETS - TYPE "Z"

Code	Reference	
STF1040	STF-Z21	10

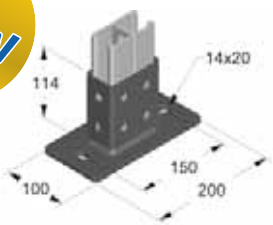
Code	Reference	
STF1045	STF-Z41	10

Thickness 6 mm - Hole diameter 14 mm



STF1050

New

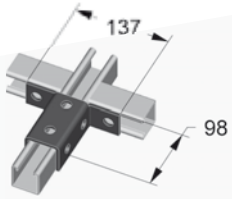


STF1056

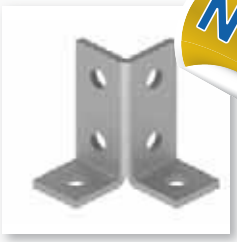
BASE PLATE - TYPE "B"

Code	Reference	
STF1050	STF-B41	1

Code	Reference	
STF1056	STF-B82	1



STF1065



New

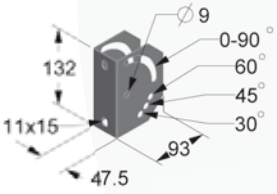
STF1066

GUN BRACKETS - TYPE "C"

Code	Reference	
STF1065	STF-C41	10

Code	Reference	
STF1066	STF-C41-2	10

STF1140



FVT1270

ARROW BRACKET

Code	Reference	
STF1140	STF-SR300	1

BRACKET WITH ADJUSTABLE ANGLE

Code	Reference	
FVT1270	FVS-AV-ZC	10

Thickness 6 mm - Hole diameter 14 mm

STF1150

BRACKET WITH ADJUSTABLE ANGLE FOR PROFILE

Code	Reference	
STF1150	STF-AV-PR	8

STF1155

BRACKET WITH ADJUSTABLE ANGLE FOR THREADED ROD

Code	Reference	
STF1155	STF-AV-BF	10

STF1076

CLAMPS FOR METAL BEAMS - TYPE "G"

Code	Reference	
STF1076	STF-G21-G41	10

Suitable for profile 41x21, 41x21 double and 41x41 profile

STF1081

Code	Reference	
STF1081	STF-G82	10

Suitable for profile 41x41 double

STF1095

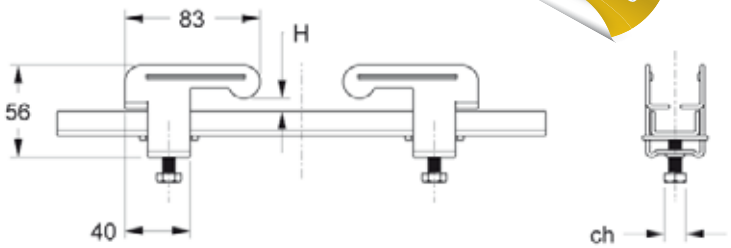
Code	Reference	
STF1095	STF-GP41	10

STF1096

Code	Reference	
STF1096	STF-GI	10

Clamp for steel beam - "G" type

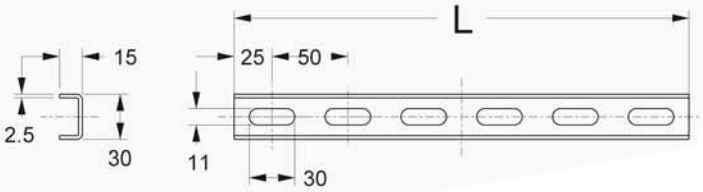
New

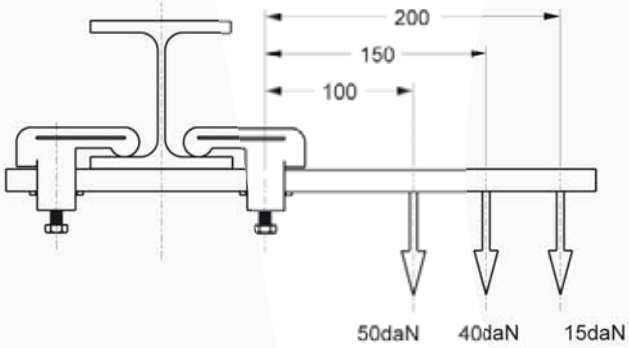


Code	Reference		H max (mm)	ch
STF2500	STF-GLE-30	20	15	13

Clamp code

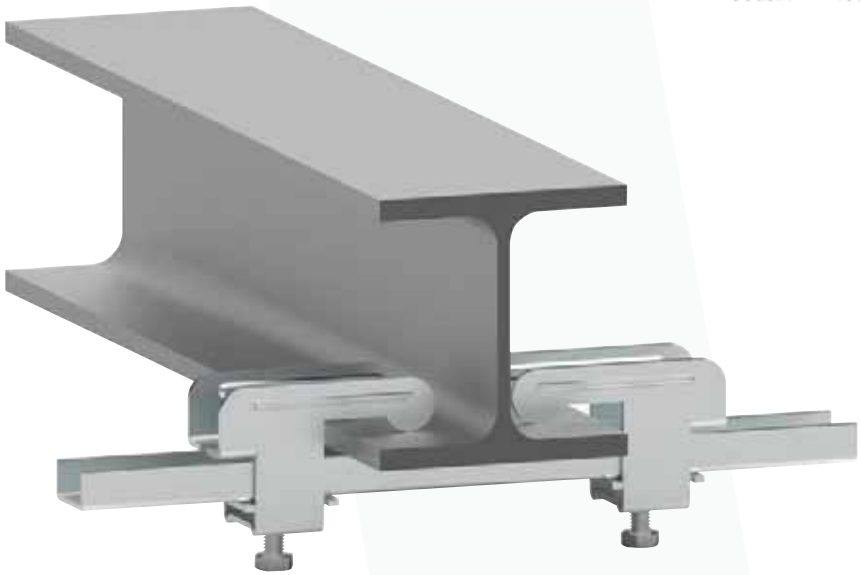
Profile for clamp





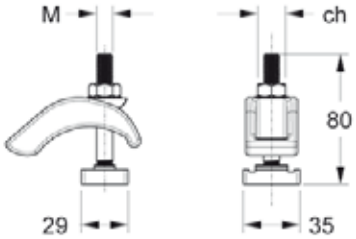
Code	Reference		L
STF2505	STF-PLE-30	10	300
STF2510	STF-PLE-40	10	400
STF2515	STF-PLE-50	10	500
STF2520	STF-PLE-60	10	600

Profiles codes



Heavy clamp for steel beam - "G" type

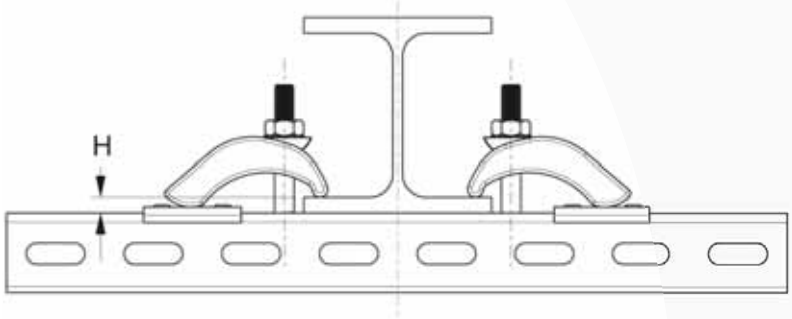
New

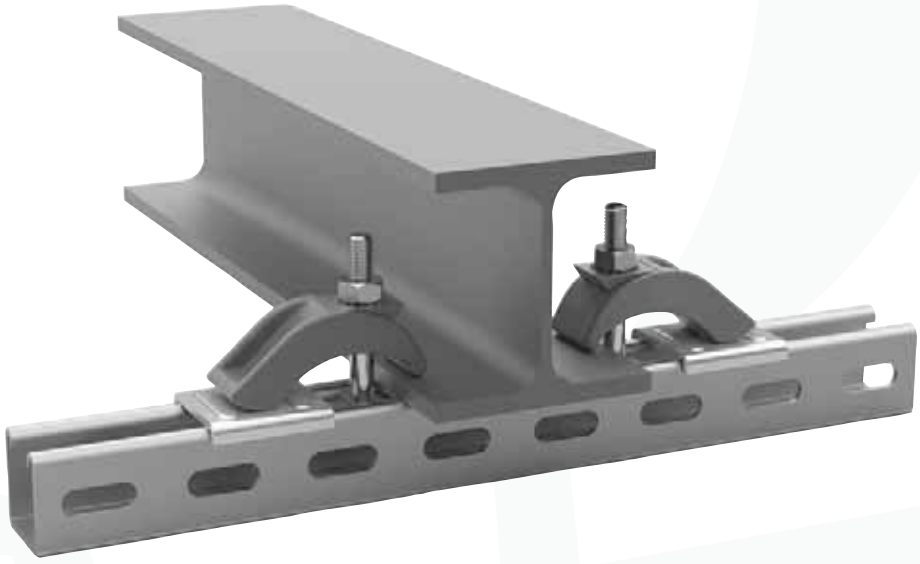


Code	Reference		H max (mm)	M	ch (mm)	CM (kg)
STF3000	STF-GPE41	10	30	M10	17	360

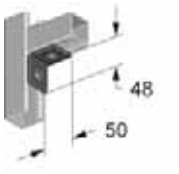
Brackets used with parts of profile of the PRF range (see p. 31, p. 36), to be ordered separately.
Please note: for the values of the loads positioned cantilevered, contact our technical dept.

The bracket includes STF1131 plate.



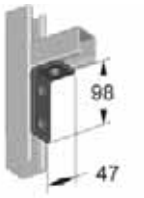


Thickness 6 mm - Hole diameter 14 mm



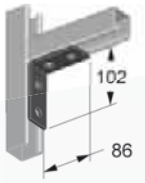
STF1105

Code	Reference	
STF1105	STF-WL2	10



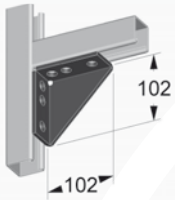
STF1110

Code	Reference	
STF1110	STF-WL3	10



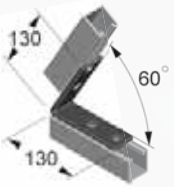
STF1115

Code	Reference	
STF1115	STF-WL4	10

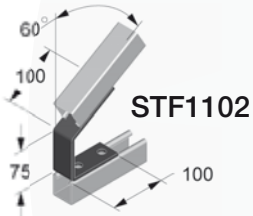


STF1120

Code	Reference	
STF1120	STF-WL4R	10

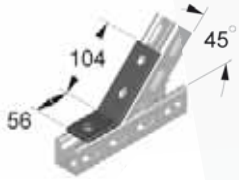


Code	Reference	
STF1101	STF-W30A	10

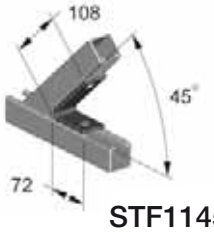


STF1102

Code	Reference	
STF1102	STF-W30-90A	10



STF1100



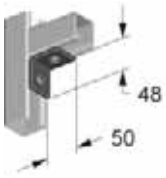
STF1145

ANGLE BRACKETS - TYPE "W"

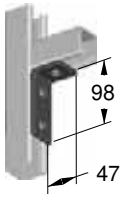
Code	Reference	
STF1100	STF-W45	10

Code	Reference	
STF1145	STF-W45A	10

Thickness 6 mm - Electrolytic galvanization



STF2105

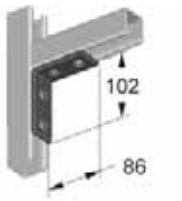


STF2110

ANGLE BRACKETS - TYPE "W"

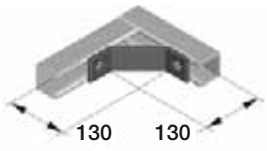
Code	Reference	
STF2105	STF-WL2-P	10

Code	Reference	
STF2110	STF-WL3-P	10



STF2115

Code	Reference	
STF2115	STF-WL4-P	10



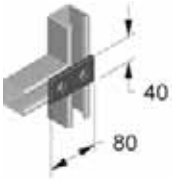
STF2140

Prefitted bolt assembled by plastic insert

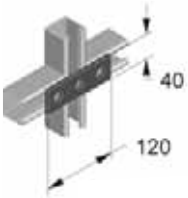
ARROW BRACKET

Code	Reference	
STF2140	STF-SR100-P	1

Thickness 6 mm - Electrolytic galvanization



STF2000

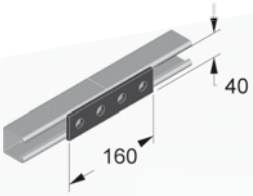


STF2005

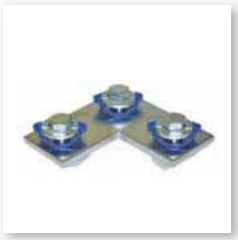
FLAT BRACKETS - TYPE "P"

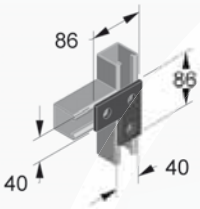
Code	Reference	
STF2000	STF-P2-P	10

Code	Reference	
STF2005	STF-P3-P	10



STF2010

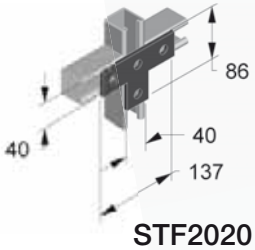




STF2015

Code	Reference	
STF2010	STF-P4-P	10

Code	Reference	
STF2015	STF-PL3-P	10



STF2020

Code	Reference	
STF2020	STF-PT4-P	10

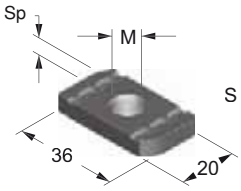
ND: Brackets with pre mounted bolts can be used ONLY on 2.5 mm thick Strut profiles

Ω STRUT - Accessories

To be complete, a range of fastening systems should also include a large family of synergic accessories.

From the large series of nuts for Strut channel, galvanized or in stainless steel, with long, short or without spring, then a wide choice of bolts and other related accessories. Our range of collars for both hydraulic and electric plants is of primary importance. This extended range of accessories closes with the family designed for holdfasts and clamps, both for metal structures and concrete beams.

DAP - Channels Nuts

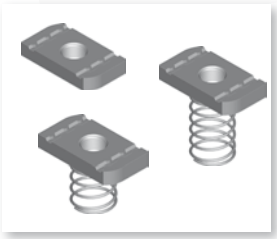


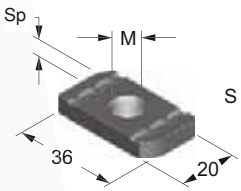
ELECTRO GALVANIZED

Code	Reference		F	M	Thk (mm)
DAP1000	DAP-M6S	100	E	M6	6,5
DAP1005	DAP-M8S	100	E	M8	6,5
DAP1010	DAP-M10S	100	E	M10	8
DAP1015	DAP-M12S	100	E	M12	10
DAP1020	DAP-M6C	100	E	M6	6,5
DAP1025	DAP-M8C	100	E	M8	6,5
DAP1030	DAP-M10C	100	E	M10	8
DAP1035	DAP-M12C	100	E	M12	10
DAP1040	DAP-M6L	100	E	M6	6,5
DAP1045	DAP-M8L	100	E	M8	6,5
DAP1050	DAP-M10L	100	E	M10	8
DAP1055	DAP-M12L	100	E	M12	10

C

L





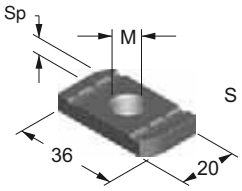
HOT-DIP GALVANIZED

Code	Reference		F	M	Thk (mm)
DAP2000	DAP-M6S-ZC	100	Z	M6	6,5
DAP2005	DAP-M8S-ZC	100	Z	M8	6,5
DAP2010	DAP-M10S-ZC	100	Z	M10	8
DAP2020	DAP-M6C-ZC	100	Z	M6	6,5
DAP2025	DAP-M8C-ZC	100	Z	M8	6,5
DAP2030	DAP-M10C-ZC	100	Z	M10	8
DAP2040	DAP-M6L-ZC	100	Z	M6	6,5
DAP2045	DAP-M8L-ZC	100	Z	M8	6,5
DAP2050	DAP-M10L-ZC	100	Z	M10	8

C

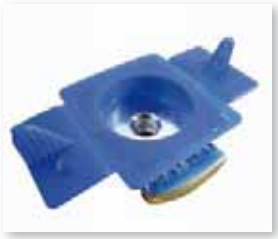
L

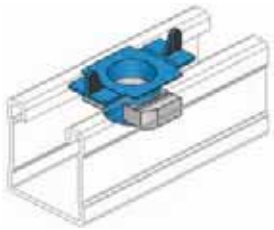
DAP - Channels Nuts



STAINLESS STEEL AISI304

Code	Reference		F	M	Thk (mm)
DAP3005	FVA-M8-S-SS	100	SS	M8	6,5
DAP3010	FVA-M10-S-SS	100	SS	M10	8
DAP3025	FVA-M8-C-SS	100	SS	M8	6,5
DAP3030	FVA-M10-C-SS	100	SS	M10	8
DAP3045	FVA-M8-L-SS	100	SS	M8	6,5
DAP3050	FVA-M10-L-SS	100	SS	M10	8

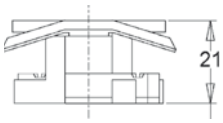


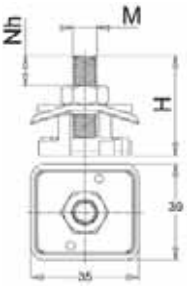


PLASTIC SPRING NUT - ELECTROLYTIC GALVANIZATION

Code	Reference		F	M	Thk (mm)
DAP1100	DAP-FKA-6	100	E	M6	6,5
DAP1105	DAP-FKA-8	100	E	M8	6,5
DAP1110	DAP-FKA-10	100	E	M10	8
DAP1115	DAP-FKA-12	100	E	M12	10

DAP - Channels Nuts





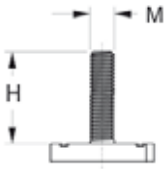
FAST KIT

Code	Reference		F	M	Nh (mm)	CM (kg)
DAP1060	DAP-FK8	100	E	M8		600
DAP1065	DAP-FK10	100	E	M10		950
DAP1070	DAP-FK12	100	E	M12		1000
DAP1075	DAP-FK-M8x40	100	E	M8x40	13	600
DAP1080	DAP-FK-M8x60	100	E	M8x60	33	600
DAP1085	DAP-FK-M10x40	100	E	M10x40	11	950
DAP1090	DAP-FK-M10x60	100	E	M10x60	31	950

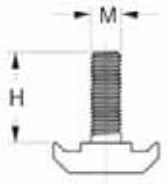
Electrolitically galvanized steel nut and plate with pre-fitted plastic insert.
Usable both with Strut 41x41 and 41x21, 2.5 - 1.5 mm thickness.

FITTING EXAMPLE

Hammer head screws



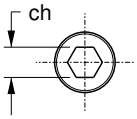
FVT1395

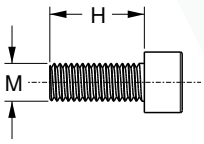


FVT1400

ELECTROLYTIC GALVANIZATION

Code	Reference	MxH	
FVT1395	FVA-TM-8X30-ZC	M8x30	100
FVT1400	FVA-TM-10X30-ZC	M10x30	100

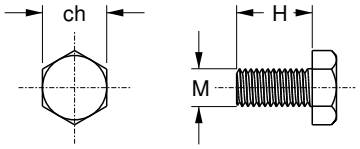




STAINLESS STEEL AISI 304

CodE	Reference	MxH	ch (mm)	
FVT1330	FVA-TCEI-8x10-INOX	M8x10	6	100
FVT1332	FVA-TCEI-8x20-INOX	M8x20	6	100
FVT1335	FVA-TCEI-8x25-INOX	M8x25	6	100
FVT1337	FVA-TCEI-8x30-INOX	M8x30	6	100
FVT1338	FVA-TCEI-8x35-INOX	M8X35	6	100
FVT1340	FVA-TCEI-8x40-INOX	M8x40	6	100
FVT1341	FVA-TCEI-8x45-INOX	M8X45	6	100
FVT1342	FVA-TCEI-8x50-INOX	M8x50	6	100
FVT1343	FVA-TCEI-8x55-INOX	M8X55	6	100
FVT1331	FVA-TCEI-8x60-INOX	M8X60	6	100
FVT1333	FVA-TCEI-8x65-INOX	M8X65	6	100
FVT1344	FVA-TCEI-8x70-INOX	M8x70	6	100
FVT1334	FVA-TCEI-8x75-INOX	M8x75	6	100
FVT1345	FVA-TCEI-10x25-INOX	M10x25	8	100
FVT1346	FVA-TCEI-10x20-INOX	M10x20	8	100
FVT1347	FVA-TCEI-10x30-INOX	M10X30	8	100
FVT1350	FVA-TCEI-10x40-INOX	M10x40	8	100
FVT1355	FVA-TCEI-10x50-INOX	M10x50	8	100

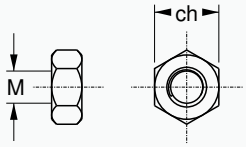
Hexagonal screws with waser and nut



STAINLESS STEEL AISI 304

CodE	Reference	MxH	ch (mm)	
FVT1320	FVA-TE-8x16-INOX	M8x16	13	100
FVT1325	FVA-TE-10x20-INOX	M10x20	17	100

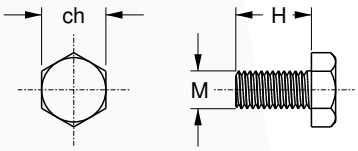
Hexagonal nuts with washer



STAINLESS STEEL AISI 304

CodE	Reference	M	ch (mm)	
FVT1358	FVA-DR-M8-INOX	M8	13	100
FVT1359	FVA-DR-M10-INOX	M10	17	100

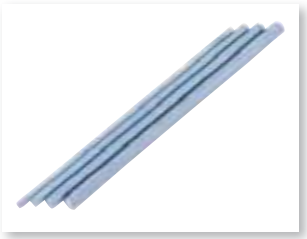
Accessories

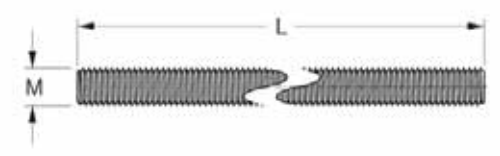


SCERWS AND WASHERS FOR STRUT COMPONENTS

CodE	Reference		F	ch (mm)	MxH
BUL1000	BUL-VTE-M10-25	100	E	17	M10x25
BUL1005	BUL-VTE-M10-30	100	E	17	M10x30
BUL1008	BUL-DADO-M10	100	E	17	
BUL1010	BUL-R-10,5	500	E		
BUL1015	BUL-RG-10,5	500	E		
BUL1020	BUL-TP21	100	P		
BUL1025	BUL-TP41	100	P		

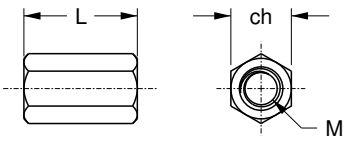
Accessories





BFA - THREADED RODS

Code	Reference		F	M	L (mm)
ELECTRO GALVANIZED					
BFA1000	BFA1-M6	10	E	M6	1000
BFA1005	BFA3-M6	10	E	M6	3000
BFA1010	BFA1-M8	10	E	M8	1000
BFA1015	BFA3-M8	10	E	M8	3000
BFA1020	BFA1-M10	10	E	M10	1000
BFA1025	BFA3-M10	10	E	M10	3000
BFA1030	BFA1-M12	10	E	M12	1000
BFA1035	BFA3-M12	10	E	M12	3000
STAINLESS STEEL					
FVT1405	FVA-BF-M8-inox	10	SS	M8	1000
FVT1410	FVA-BF-M10-inox	10	SS	M10	1000

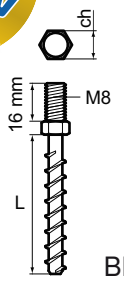


COUPLERS

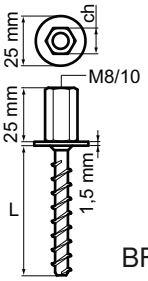
Code	Reference		F	M	Ch (mm)	L (mm)
ELECTRO GALVANIZED						
BFA1040	GBF-M6-30	100	E	M6	10	30
BFA1045	GBF-M8-30	100	E	M8	13	30
BFA1050	GBF-M10-30	100	E	M10	17	30
STAINLESS STEEL						
FVT1415	FVA-MF-8x30-inox	100	SS	M8	13	30
FVT1420	FVA-MF-10x30-inox	100	SS	M10	17	30

Accessories

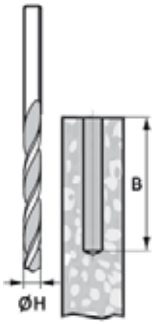
New



BFA1090

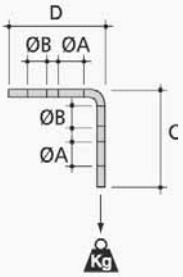


BFA1100



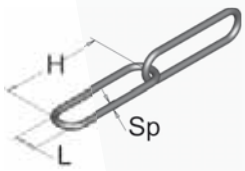
CONCRETE TAPPING SCREW

Code	Reference		F	L (mm)	ØH (mm)	B min (mm)	ch (mm)	M	CM (kg)
BFA1090	FBF-VAC-M	50	A	55	6	60	10	M8	430
BFA1100	FBF-VAC-F	50	A	35	6	40	13	M8/M10	60



CTN - FASTENING PLATES

Code	Reference		F	ØA (mm)	ØB (mm)	C (mm)	D (mm)	CM (kg)
CTN1110	CTN-SO-TB	50	E	6,5	4,6	26	26	90



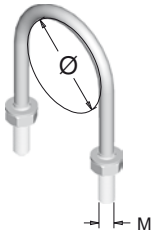
CTN - CHAIN

Code	Reference		F	H x L (mm)	Thk (mm)	CL (kg)
CTN1000	CTN-L-Box	50 m	E	13x4	1,6	40
CTN1005	CTN-M-Box	30 m	E	24x5	2,4	80
CTN1010	CTN-P-Box	20 m	E	26x6	3,0	110
CTN1015	CTN-M-Max	100 m	E	24x5	2,4	80
CTN1020	CTN-P-Max	100 m	E	26x6	3,0	110
CTN1025*	CTN-GS	50	E			
CTN1030**	CTN-OM8	50	E	M8 x20		

* CTN1025 "S" hook 3mm thickness; **CTN1030 M8 with loop – thickness 7mm – Ø 12mm.

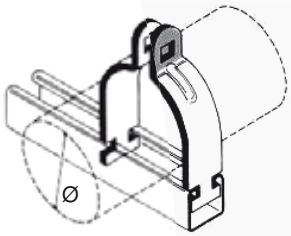
N.B. These products cannot be used for lifting or traction operations.

Accessories



UBT - U-BOLT PIPE HANGER

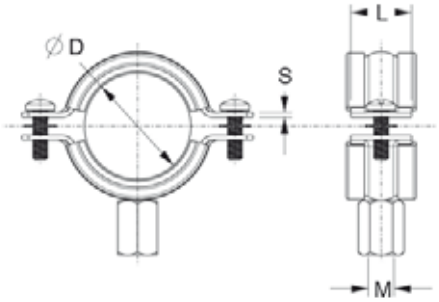
Code	Reference		F	Ø"	M
UBT1000	UBT-1/2"- 6	50	E	1/2	M6
UBT1005	UBT-3/4"- 6	50	E	3/4	M6
UBT1010	UBT-1"- 6	50	E	1	M6
UBT1015	UBT-1"1/4"- 8	50	E	1-1/4	M8
UBT1020	UBT-1"1/2"- 8	50	E	1-1/2	M8
UBT1025	UBT-2"- 8	50	E	2	M8
UBT1030	UBT-2" 1/2 - 8	50	E	2-1/2	M8
UBT1035	UBT- 3"- 8	25	E	3	M8
UBT1040	UBT- 4"- 8	25	E	4	M8



CPR - CHANNEL PIPE CLAMPS

Code	Reference		F	Ø"	Ø (mm)
CPR2000	CPR-I-050	50	E	1/2 "	20
CPR2005	CPR-I-075	50	E	3/4"	25
CPR2010	CPR-I-100	50	E	1"	32
CPR2015	CPR-I-125	50	E	1 -1/4"	40
CPR2020	CPR-I-150	50	E	1-1/2"	50
CPR2025	CPR-I-200	50	E	2"	63
CPR2030	CPR-I-250	50	E	2-1/2"	-
CPR2035	CPR-I-300	25	E	3"	-
CPR2040	CPR-I-400	25	E	4"	-

Accessories



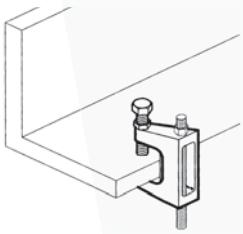
Technical characteristics

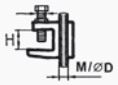
Electro galvanized stainless steel
"EPDM rubber insulation ("G" series)"
"Vibration reduction as per DIN 4109 18 db ("G" series)"
Unloosable tightening screws thanks to special plastic washers
"Operation temperature: -40/+110° ("G" series)"
Suitable for both vertical and horizontal assembly
M8/M10/M12 combi nuts
Breaking load: 6000N

PCL - Ω PIPE "G" - EPDM INSULATED PIPE CLAMPS

Code	Reference		F	Ø"	Ø (mm)	M	L x S (mm)
PCL1000	PCL-G-3/8	100	E	3/8"	16 - 20	M8 / M10	20 x 1,5
PCL1005	PCL-G-1/2	100	E	1/2"	20 - 24	M8 / M10	20 x 1,5
PCL1010	PCL-G-3/4	100	E	3/4"	25 - 28	M8 / M10	20 x 1,5
PCL1015	PCL-G-1	100	E	1"	32 - 35	M8 / M10	20 x 1,5
PCL1020	PCL-G-1-1/4	50	E	1-1/4"	39 - 46	M8 / M10	20 x 1,5
PCL1025	PCL-G-1-1/2	50	E	1-1/2"	48 - 53	M8 / M10	20 x 1,5
PCL1030	PCL-G-2	25	E	2"	59 - 66	M8 / M10	20 x 1,5
PCL1035	PCL-G-2-1/2	25	E	2-1/2"	74 - 80	M8 / M10	25 x 2
PCL1040	PCL-G-3	25	E	3"	87 - 94	M10 / M12	25 x 2
PCL1045	PCL-G-4	12	E	4"	108 - 116	M10 / M12	30 x 3
PCL1050	PCL-G-5	6	E	5"	135 - 143	M10 / M12	40 x 4

Clamps and collars



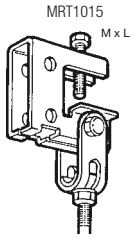


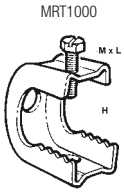
FM APPROVED c UL us LISTED VdS

TKM - CAST IRON BEAM CLAMPS

Code	Reference		F	H (mm)	M / Ø	CM (kg)
TKM1000	TKM- M6	50	G	18	M6	120
TKM1005	TKM 8	50	G	18	Ø 9	120
TKM1010	TKM-M8	50	G	18	M8	120
TKM1015	TKM10	50	G	20	Ø 11	250
TKM1020	TKM-M10	50	G	20	M10	250
TKM1025	TKM12	50	G	26	Ø 13	350
TKM1030	TKM-M12	50	G	26	M12	350
TKM1035	TKM-M16	50	G	28	M16	550

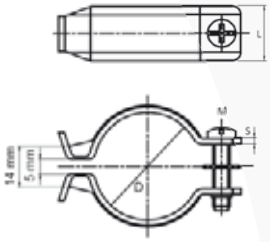
Clamps and collars





MRT - STEEL BEAM CLAMPS

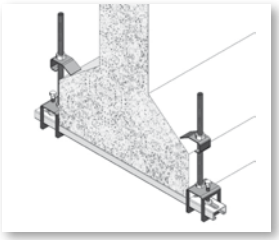
Code	Reference		F	H (mm)	M x L	CM
MRT1000	MRT-S24	20	D	≤20	M8x35	110
MRT1005	MRT-S32	20	D	≤30	M8x35	120
MRT1010	MRT-S45	10	D	≤45	M8x35	130
MRT1015	MRT-SND	10	T	3-25	M8x45	100

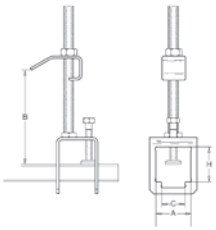


MRT - BUILT-IN COLLARS FOR CLAMPS

Code	Reference		F	D (mm)	L x S (mm)	M
MRT1105	MRT-C21	20	D	16-20	16x1,5	M5
MRT1110	MRT-C27	20	D	20,4-25	16x1,5	M5
MRT1115	MRT-C33	20	D	26,9-32	16x1,5	M5
MRT1120	MRT-C39	20	D	33,7-38	20x1,5	M6
MRT1122	MRT-C40	20	D	40-44,5	20x1,5	M6
MRT1125	MRT-C50	20	D	47-51	20x1,5	M6
MRT1130	MRT-C64	20	D	59,2-63,5	20x1,5	M6

Universal kit for Strut Channel

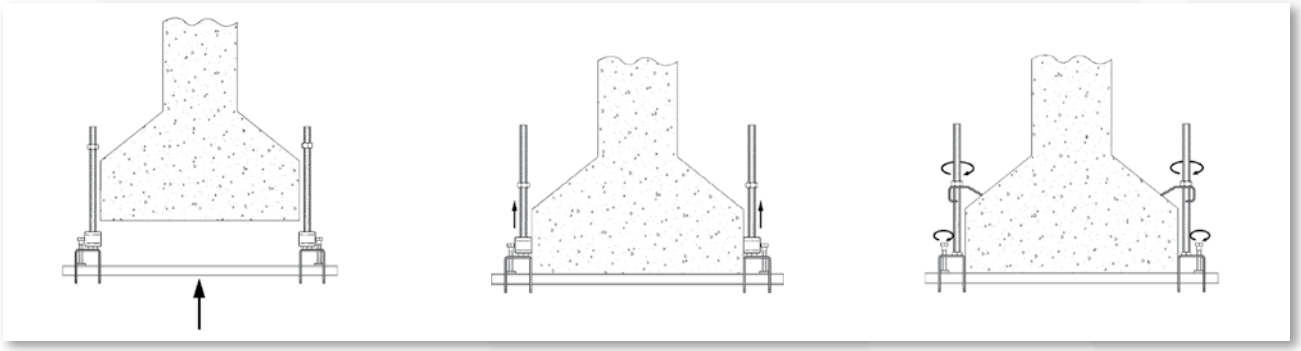


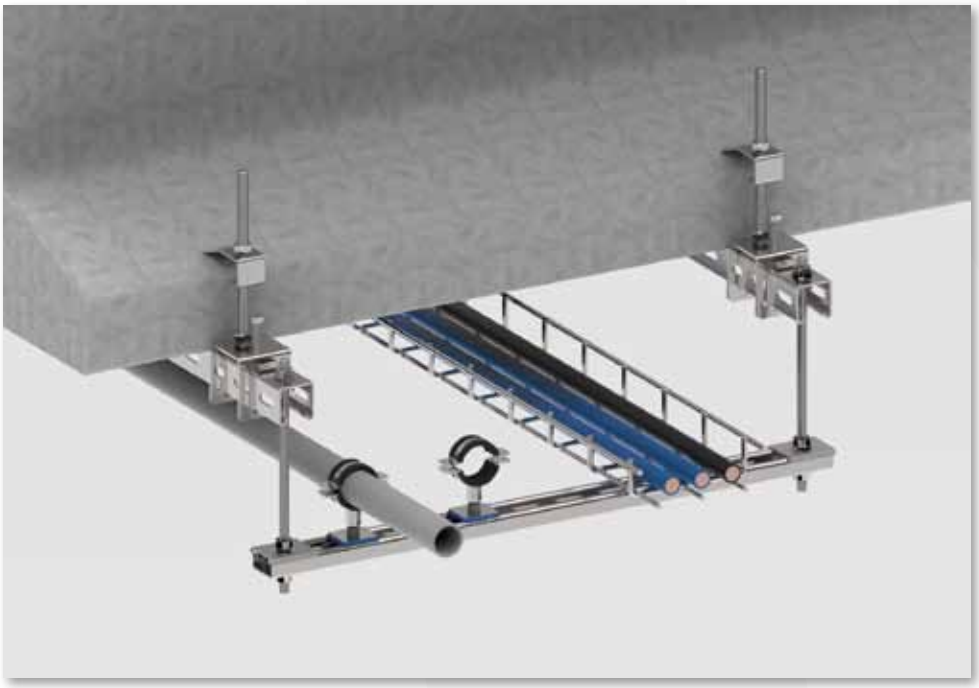


Code	Reference		F	B min-max (mm)	A x H/C (mm)	M	CL (kg)
FTC2021	FTU-41x21	20	E	30-160	43x23/28	M10	75
FTC2041	FTU-41x41	20	E	30-160	43x43/28	M10	75

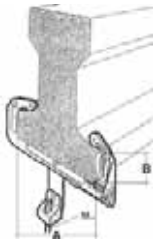
Profile to be ordered separately. See from page 31 to page 36.
Each clamping requires 2 brackets and a part of profile.

MOUNTING INSTRUCTION





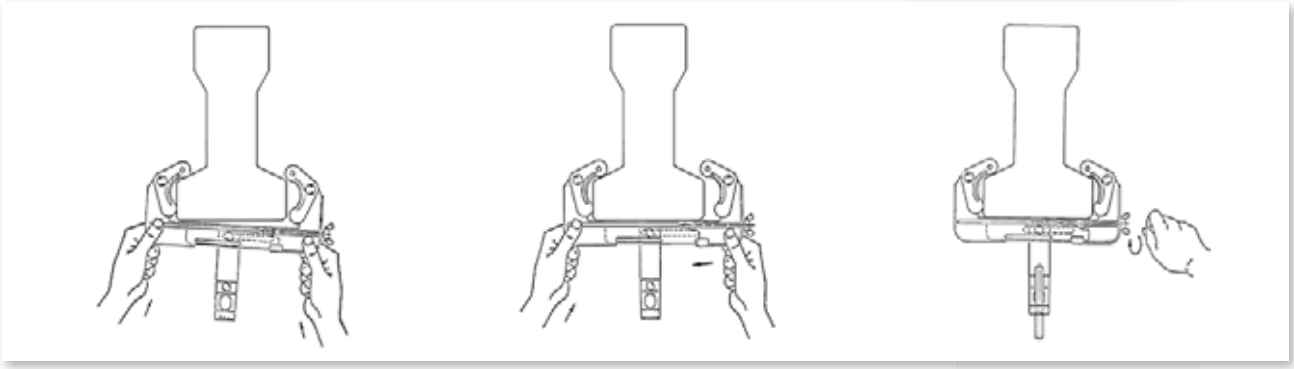
Universal kit for small beams

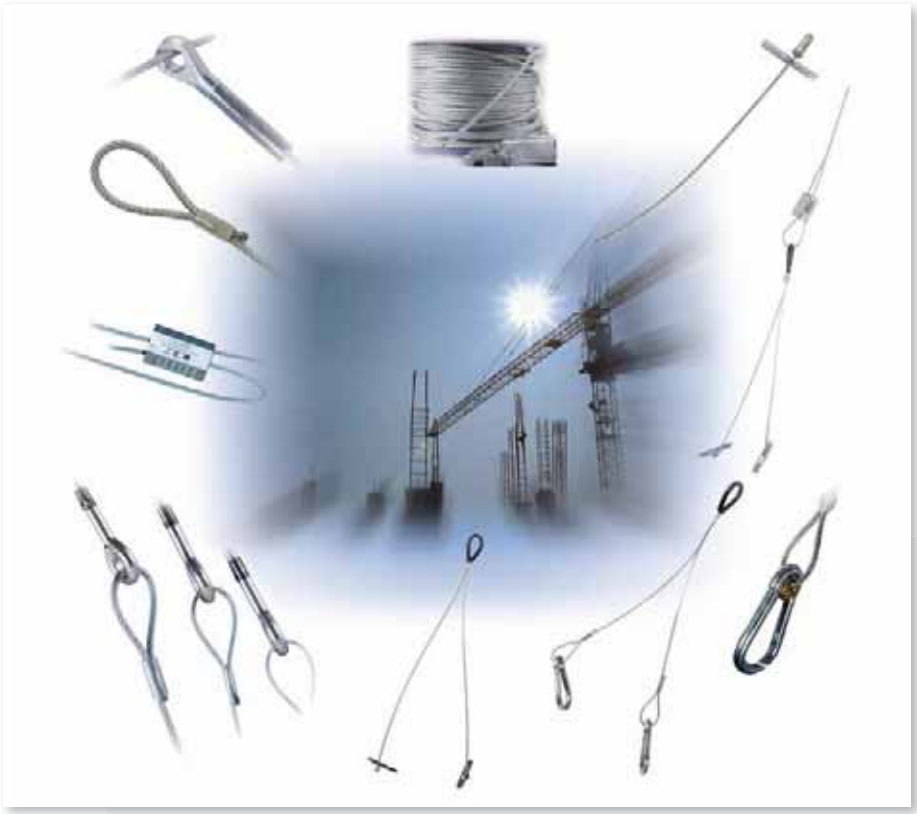


ELEMENT WITH THREADED ROD HANGER

Code	Reference		F	A min-max (mm)	B min-max (mm)	M	CL (kg)
FTC1010	FTC-1-BF6	50	E	92-125	27-35	M6	70
FTC1015	FTC-2-BF6	50	E	120-140	27-40	M6	70
FTC1020	FTC-1-BF8	50	E	92-125	27-35	M8	70
FTC1025	FTC-2-BF8	50	E	120-140	27-40	M8	70
FTC1030	FTC-1-BF10	50	E	92-125	27-35	M10	70
FTC1035	FTC-2-BF10	50	E	120-140	27-40	M10	70

MOUNTING INSTRUCTION





Ω ZIP - Steel wire suspension system

The New Generation of Wire Supporting Clips

For Many years the traditional method of suspending has always been with Chain or threaded rod, both of which are slow to install and unsightly when installed, Teknomega have recognized an opportunity and have introduced a new generation of Wire Suspension systems.

This new range allows using both steel wires in coil and prefabricated (Predetermined kits suitable for steel and concrete applications) wire segments in defined length. Each System is designed to be used with a locking device which allows you to suspend from 10-230kg; all products are designed with a safety factor of 5:1.

The pre-cut wire Ω ZIP is available with various type of Terminations: loop lock for Purlin Applications, anchor lock, ring for Concrete applications, wall plug or carabiner hook. The range is completed by a range of "y" fit components, designed specificately for suspending cable management application or supporting lighting, and by a number of dedicated accessories.

To adjust the system each kit is supplied with a locking device which is manufactured from a high quality Zinc Alloy casting, The Locking device has two wedges inside the casting which are manufactured from oil impregnated sintered metal. The wedges are designed to offer the best locking solution. By using two wedges rather than one, the system allows for greater flexibility, by following the arrows embossed on the clip the system can be adjusted easily by using a fine height adjusting pin located on both sides of the clip. Simply pass one end of the wire through the clip, around your service and back through the clip, the system is now secure and can be adjusted to your desired height.

CERTIFICATES AVAILABLE ON REQUEST

Wire in bobbins and locking clips

GREEN RANGE (from 0 to 10 Kg) - WIRE Ø 1 (mm)

Code	Reference		L (m)	CL (kg)
ZCT2005	R200GREEN	1	200	10
ZCT2010	R500GREEN	1	500	10
LOCKING CLIP FOR GREEN RANGE				
ZCT3000	KL50	100	Green Lock	10
ZCT3020	KL50PK	10	Green Lock	10

New

Code	Reference		Wire (m)	Clip	CL (kg)
ZCT9015	KITGREEN-C&M	1	200	100	10

Note: Kit composed of 200 mts green cable and 100 locking clips

SILVER RANGE (from 0 to 50 Kg)) - WIRE Ø 2 (mm)

Code	Reference		L (m)	CL (kg)
ZCT2015	R100SILVER	1	100	50
ZCT2020	R200SILVER	1	200	50
LOCKING CLIP FOR SILVER RANGE				
ZCT3005	KL100	100	Silver Lock	50
ZCT3025	KL100PK	10	Silver Lock	50

New

Code	Reference		Wire (m)	Clip	CL (kg)
ZCT9016	KITSILVER-C&M	1	200	100	50

Note: Kit composed of 200 mts silver cable and 100 locking clips

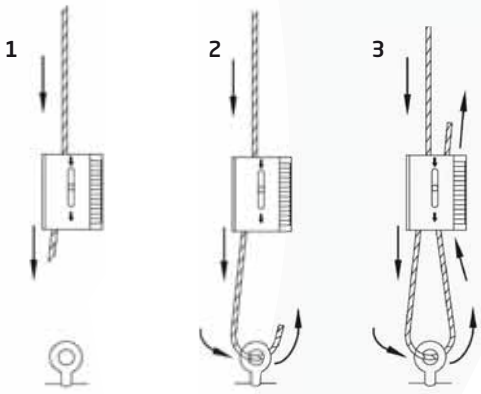
YELLOW RANGE (from 0 to 120 Kg) - WIRE Ø 3 (mm)

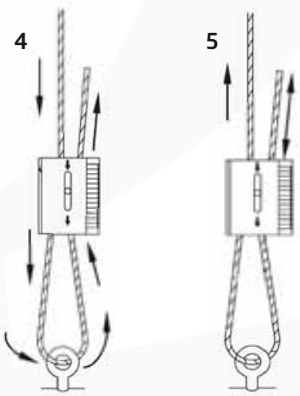
Code	Reference		L (m)	CL (kg)
ZCT2040	R100YELLOW	1	100	120
LOCKING CLIP FOR YELLOW RANGE				
ZCT3010	KL150	100	Yellow Lock	120
ZCT3030	KL150PK	10	Yellow Lock	120

PURPLE RANGE (from 0 to 230 Kg) - WIRE Ø 4 (mm)

Code	Reference		L (m)	CL (kg)
ZCT2050	R100PURPLE	1	100	230
LOCKING CLIP FOR PURPLE RANGE				
ZCT3015	KL200	100	Purple Lock	230
ZCT3035	KL200PK	10	Purple Lock	230

NB: wire and clips to be ordered separately





ZIP Clip Hook terminal and locking clips

GREEN RANGE (from 0 to 10 Kg)

Code	Reference		L (m)	CL (kg)
ZCT2055	PLE1GREEN	10	1	10
ZCT2057	PLE2GREEN	10	2	10
ZCT2060	PLE3GREEN	10	3	10
ZCT2062	PLE4GREEN	10	4	10
ZCT2065	PLE5GREEN	10	5	10

SILVER RANGE (from 0 to 45 Kg)

Code	Reference		L (m)	CL (kg)
ZCT2070	PLE1SILVER	10	1	45
ZCT2072	PLE2SILVER	10	2	45
ZCT2075	PLE3SILVER	10	3	45
ZCT2077	PLE4SILVER	10	4	45
ZCT2080	PLE5SILVER	10	5	45
ZCT2082	PLE10SILVER	10	10	45

YELLOW RANGE (from 0 to 90 Kg)

Code	Reference		L (m)	CL (kg)
ZCT2150	PTE1YELLOW	10	1	90
ZCT2152	PTE2YELLOW	10	2	90
ZCT2155	PTE3YELLOW	10	3	90
ZCT2157	PTE4YELLOW	10	4	90
ZCT2160	PTE5YELLOW	10	5	90

Note: including wire and clip suspension kit

ZIP Clip anchor terminal and clips

GREEN RANGE "L" (from 0 to 10 Kg)

Code	Reference		L (m)	CL (kg)
ZCT2100	PTE1GREEN	10	1	10
ZCT2102	PTE2GREEN	10	2	10
ZCT2105	PTE3GREEN	10	3	10
ZCT2107	PTE4GREEN	10	4	10
ZCT2110	PTE5GREEN	10	5	10

SILVER RANGE "L" (from 0 to 35 Kg)

Code	Reference		L (m)	CL (kg)
ZCT2115	PTE1SILVER	10	1	35
ZCT2117	PTE2SILVER	10	2	35
ZCT2120	PTE3SILVER	10	3	35
ZCT2122	PTE4SILVER	10	4	35
ZCT2125	PTE5SILVER	10	5	35

YELLOW RANGE "L" (from 0 to 90 Kg)

Code	Reference		L (m)	CL (kg)
ZCT2130	PTE1YELLOW	10	1	90
ZCT2132	PTE2YELLOW	10	2	90
ZCT2135	PTE3YELLOW	10	3	90
ZCT2137	PTE4YELLOW	10	4	90
ZCT2140	PTE5YELLOW	10	5	90

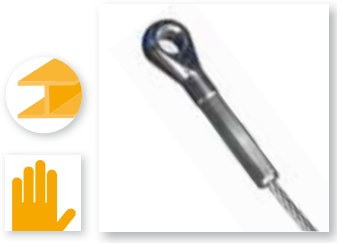
(CL=anchor load rate are lower than ring based on anchor itself)

Note: including wire and clip suspension kit

ZIP Clip - Kit for ring terminal

GREEN RANGE (from 0 to 10 Kg)

Code	Reference		L (m)	CL (kg)
ZCT1000	ZLG1	10	1	10
ZCT1005	ZLG2	10	2	10
ZCT1010	ZLG3	10	3	10
ZCT1012	ZLG4	10	4	10
ZCT1015	ZLG5	10	5	10
ZCT1020	ZLG10	10	10	10



SILVER RANGE (from 0 to 50 Kg)

Code	Reference		L (m)	CL (kg)
ZCT1025	ZLY1	10	1	50
ZCT1030	ZLY2	10	2	50
ZCT1035	ZLY3	10	3	50
ZCT1037	ZLY4	10	4	50
ZCT1040	ZLY5	10	5	50
ZCT1045	ZLY10	10	10	50

Ø ring internal diameter: 5 mm

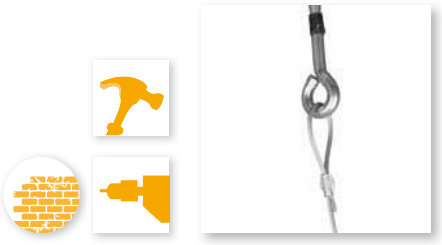
YELLOW RANGE (from 0 to 120 Kg)

Code	Reference		L (m)	CL (kg)
ZCT1050	ZLY1	10	1	120
ZCT1055	ZLY2	10	2	120
ZCT1060	ZLY3	10	3	120
ZCT1062	ZLY4	10	4	120
ZCT1065	ZLY5	10	5	120
ZCT1070	ZLY10	10	10	120

Ø ring internal diameter: 5 mm

NB: including wire and clip suspension kit

ZIP Clip - Kit for screw terminal



GREEN RANGE (from 0 to 10 Kg)

Code	Reference		L (m)	CL (kg)
ZCT1075	CLG1	10	1	10
ZCT1080	CLG2	10	2	10
ZCT1085	CLG3	10	3	10
ZCT1087	CLG4	10	4	10
ZCT1090	CLG5	10	5	10
ZCT1095	CLG10	10	10	10

SILVER RANGE (from 0 to 50 Kg)

Code	Reference		L (m)	CL (kg)
ZCT1100	CLS1	10	1	50
ZCT1105	CLS2	10	2	50
ZCT1110	CLS3	10	3	50
ZCT1112	CLS4	10	4	50
ZCT1115	CLS5	10	5	50
ZCT1120	CLS10	10	10	50

YELLOW RANGE (from 0 to 90 Kg)

Code	Reference		L (m)	CL (kg)
ZCT1125	CLY1	10	1	90
ZCT1130	CLY2	10	2	90
ZCT1135	CLY3	10	3	90
ZCT1137	CLY4	10	4	90
ZCT1140	CLY5	10	5	90
ZCT1145	CLY10	10	10	90

NB: including wire and clip suspension kit

INSTALLATION INSTRUCTIONS

Suitable on concrete-precompressed C12/15 and C20/25 to C50/60

Hole: Ø 6 mm - Depth: 30 mm

ZIP Clip - Kit snap-on- hook terminal

GREEN RANGE (from 0 to 10 Kg)

Code	Reference		L (m)	CL (kg)
ZCT1150	KLG1	10	1	10
ZCT1155	KLG2	10	2	10
ZCT1160	KLG3	10	3	10
ZCT1162	KLG4	10	4	10
ZCT1165	KLG5	10	5	10
ZCT1170	KLG10	10	10	10

SILVER RANGE (from 0 to 50 Kg)

Code	Reference		L (m)	CL (kg)
ZCT1175	KLS1	10	1	50
ZCT1180	KLS2	10	2	50
ZCT1185	KLS3	10	3	50
ZCT1187	KLS4	10	4	50
ZCT1190	KLS5	10	5	50
ZCT1195	KLS10	10	10	50

NB: including wire and clip suspension kit

"Y" Type supports

"Y" RANGE WITH SNAP-ON-HOOK

Code	Reference		L (mm)	CL (kg)
ZCT1200	TRS50-100	10	230	50
ZCT1205	TRS150-200	10	300	50
ZCT1210	TRS300-400	10	460	50

"Y" RANGE WITH ANCHOR

Code	Reference		L (mm)	CL (kg)
ZCT1215	LUM-50-100	10	230	35
ZCT1220	LUM-150-200	10	300	35
ZCT1225	LUM-300-400	10	460	35

ZIP Clip - Accessories

Code	Reference		Description
ZCT1230	UNI1	10	Adapter M6x20 mm
ZCT1235	UNI2	10	Adapter M6x45 mm
ZCT1240	CPA1	50	Corner insulation
ZCT1245	PVC1	10	PVC sleeve for Silver and Yellow range
ZCT1250	CUT1	1	Cutter for wire pliers

INSTALLATION EXAMPLE

Structures for photovoltaic systems

The development in the field of the alternative energy sources is closely related to the search for solutions that help reducing dependence on raw materials such as oil, gas and coal. To remedy the problems dictated by the "old" sources of livelihood, environmentally friendly programs have been initiated to encourage solutions with low environmental impact; a striking example is the installation of photovoltaic systems in the most varied ways.
The core of the system is composed of modules that use the sun's energy producing direct current from inverter to convert it into useful alternative for release in the normal power grid, from meters that measure both the energy produced and the one supplied to the grid.
It is here that Teknomega acts.By leveraging the extensive knowledge in the field of "Industrial Fixing Systems", we have designed a new program dedicated to the fastening for photovoltaic systems. All parts of the system must be fixed to the supporting structure. We have created solutions to last over the time, so ensuring quality and reliability to all its components.
The TEKNOMEGA fixing range covers many different applications (on flat roofs, metal decking or sloping roofs), always providing the best solution to use. Another very important highlight by Teknomega is given by the search for new solutions, also designed and developed to solve issues related to the eed and universality of installation. Teknomega staff is also able to support you when selecting the product and, upon request, to certify the most appropriate items for your installation.
This catalogue shows several new solutions to solve your problems on site, while reecting the rules, following the style and the reliability that distinguishes the Teknomega brand.

We fixed the sun

SUMMARY

LEGEND

DIMENSIONS

M = Threaded hole
D = Drill thru Ø... or usable diameter
L = Length in meters

LOADS

CL Kg = Static load of work expressed in Kg
CM Kg = Maximum allowable load expressed in Kg
Safety factor of 1:1

FINISHING (F)

S = Sendzimir galvanizing
Z = Hot-dip galvanizing according to DIN 50 976 - CEI 7.6
E = Electroplating galvanizing according to UNI 4721
SS = Stainless Steel AISI304
AL = Aluminium

▪ ALU **ALUMINIUM ALLOY 6060**
(EN AW-ALMGSI-UNI EN 573/3)
The adoption of aluminium sections ensures excellent resistance to stresses while maintaining light weight, thus avoiding overloading the supporting structures.

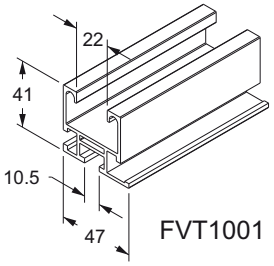
Z ⟶ **HOT-DIP GALVANIZED STEEL**
(Steel EN10025-5235 JR UNI EN ISO 1461)
After a chemical preparation, the steel is immersed in a cast zinc bath (450-460°C). Thickness varies from 60 to 80 microns. Any whitecoating, due to the formation of zinc hydroxyl-carbonate has no effect on the performances of corrosion resistance.

S+V ⟶ S+V SENDZIMIR + POWDER COATING
Using a base of galvanized Sendzimir sheet (UNI EN 10327 - DX51D): you can carry out an additional thermo-hardening polyester powder coating. The corrosion resistance of the above mentioned treatment has proved more than good (The material in the catalogue can be ordered on request in RAL colours to be chosen).

SS ⟶ SS AISI 304 and AISI 430 STAINLESS STEEL
Consistent quality of stainless steel ensures components installed an unbeatable durability; like never in applications designed for fixtures in photovoltaic field. Such reliability was so important.

TO INSTALL WITH:

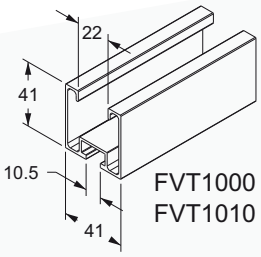
FOR APPLICATIONS ON:



CORRUGATED PROFILE

Code	Reference	L (m)	Thk (mm)	Weight (kg)	
FVT1001	FVP-L3.1-PC -ALU	3,1	2	3,67	1
FVT1006	FVP-L6.2-PC -ALU	6,2	2	7,34	1

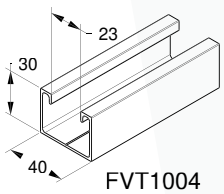
** Use nuts type DAP with long ring (see pag. 103)*



SIMPLE PROFILE

Code	Reference	L (m)	Thk (mm)	Weight (kg)	
FVT1000	FVP-L3.1-S-ALU	3,1	2,3	3,39	1
FVT1005	FVP-L6.2-S-ALU	6,2	2,3	6,78	1
FVT1010	FVP-L3.1-SL-ALU	3,1	1,6	2,37	1
FVT1015	FVP-L6.2-SL-ALU	6,2	1,6	4,75	1
FVT9110	FVP-L1.1-SL-ALU	1,1	1,6	0,84	1
FVT9220	FVP-L2.2-SL-ALU	2,2	1,6	1,68	1
FVT9330	FVP-L3.3-SL-ALU	3,3	1,6	2,52	1

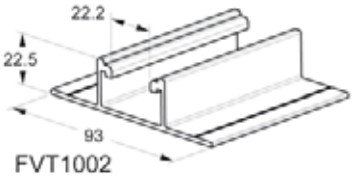
** Use nuts type DAP with long Spring (see pag. 103)*

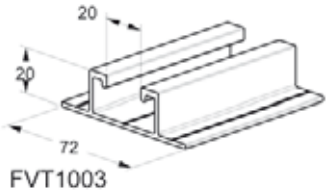


LOWERED PROFILE

Code	Reference	L (m)	Thk (mm)	Weight (kg)	
FVT1004	FVP-L3.1-RI-ALU	3,1	1,6	1,66	1
FVT1009	FVP-L6,2-RI-ALU	6,2	1,6	3,32	1

** Use nuts type DAP with long Spring (see pag. 103)*

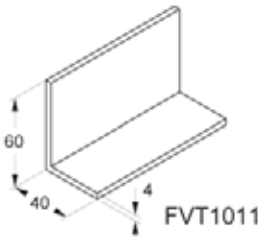




PROFILE WITH LARGE BASE

Code	Reference	L (m)	Thk (mm)	Weight (kg)	
FVT1002	FVP-L3.1-ΩK-ALU	3,1	2	2,73	1
FVT1007	FVP-L6.2-ΩK-ALU	6,2	2	5,46	1
FVT1003	FVP-L3.1-ΩL-ALU	3,1	2	2,3	1
FVT1008	FVP-L6.2-ΩL-ALU	6,2	2	4,58	1

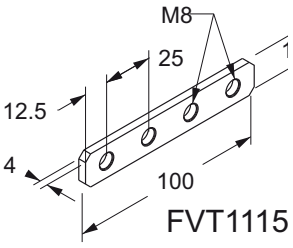
Short Spring DAP nut have to be used (see page 103). Please contact our technicians for usage of "Ω" e "Z" pre installed brackets



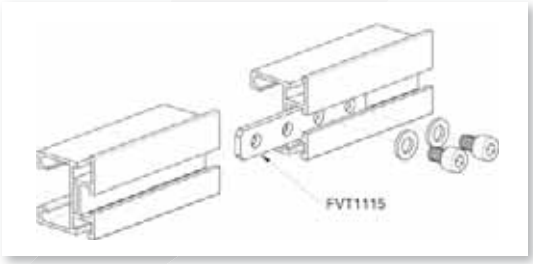
ANGOLARE 60X40X4

Code	Reference	L (m)	Thk (mm)	Weight (kg)	
FVT1011	FVP-L3.1-ANG-ALU	3,1	4	3,22	1
FVT1012	FVP-L6,2-ANG-ALU	6,2	4	6,44	1

Joints for profiles



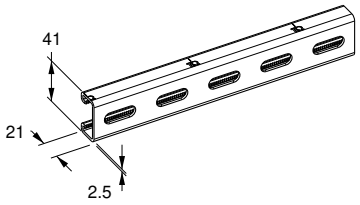
INSTALLATION EXAMPLES



Code	Reference	To be used for	F	
FVT1115	FVS-PU-INOX	Aluminium Profiles FVT range	SS	25

FVT1115 included 2 fixing screws TCEI M8X10

STRUT steel profiles

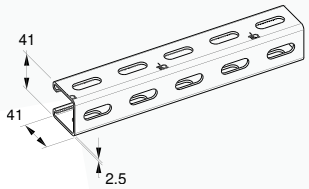


41X21 SLOTTED ON THE BOTTOM

Code	Reference	L (m)	Thk (mm)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)	F	
PRF1145	PRF-B3-ZF	3	2,5	5,1	30x11	50	Z	1
PRF1150	PRF-B4-ZF	4	2,5	6,8	30x11	50	Z	1
PRF1155*	PRF-B6-ZF	6	2,5	10,2	30x11	50	Z	1
PRF9004	PRF-B3-SSF	3	2	4,3	20x11	50	SS	1

Use nuts type DAP with short ring (see pag. 103)

** Upon request*



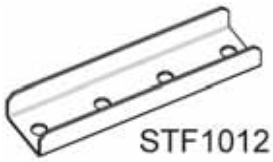
41x41 SLOTTED ON THREE SIDES

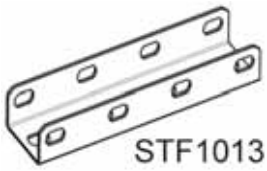
Code	Reference	L (m)	Thk (mm)	Weight (kg)	Slot dim. (mm)	Slot inter. (mm)	F	
PRF1225	PRF-A3-ZF3	3	2,5	7,5	30x11	50	Z	1
PRF1230	PRF-A4-ZF3	4	2,5	10	30x11	50	Z	1
PRF1235*	PRF-A6-ZF3	6	2,5	15	30x11	50	Z	1
PRF9000	PRF-A3-SSF	3	2	6,2	20x11	50	SS	1

Use nuts type DAP with long ring (see pag. 103)
Stainless steel profile (code PRF9000) slotted only on the bottom

** Upon request*

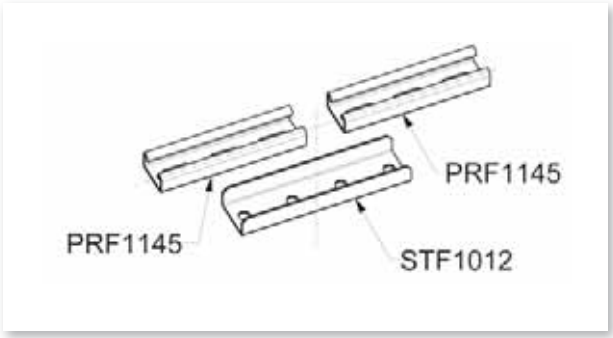
Joints for profiles

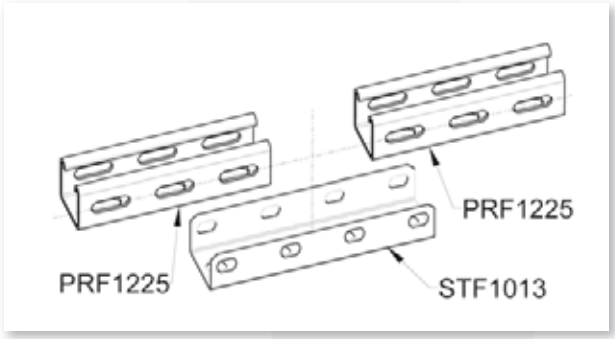




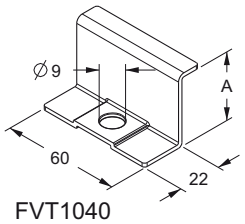
Code	Reference	To be used for	F	
STF1012	STF-GI-PB-Inox	41x21	SS	20
STF1013	STF-GI-PA-Inox	41x41	SS	20

INSTALLATION EXAMPLES





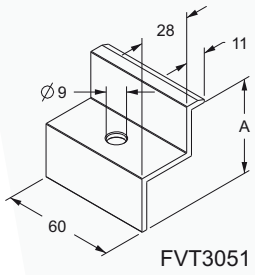
"Z"-shaped jaws for lateral fixing



FVT1040

STAINLESS STEEL AISI 304

Code	Reference	A (mm)	Thk (mm)	
FVT1040	FVS-Z33-INOX	33	34	50
FVT1045	FVS-Z34-INOX	34	35	50
FVT1050	FVS-Z35-INOX	35	36	50
FVT1055	FVS-Z37-INOX	37	38	50
FVT1060	FVS-Z39-INOX	39	40	50
FVT1065	FVS-Z41-INOX	41	42	50
FVT1066	FVS-Z43-INOX	43	44	50
FVT1070	FVS-Z45-INOX	45	46	50
FVT1075	FVS-Z47-INOX	47	48	50
FVT1080	FVS-Z49-INOX	49	50	50

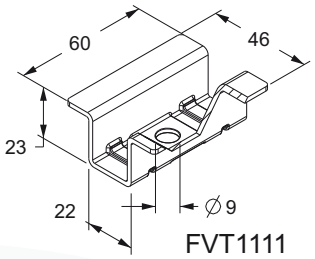


FVT3051

ALUMINIUM

Code	Reference	A (mm)	Thk (mm)	
FVT3031	FVS-Z-31-ALU	31	29-30-31	50
FVT3034	FVS-Z-34-ALU	34	32-33-34	50
FVT3036	FVS-Z-36-ALU	36	35-36	50
FVT3039	FVS-Z-39-ALU	39	37-38-39	50
FVT3041	FVS-Z-41-ALU	41	40-41	50
FVT3044	FVS-Z-44-ALU	44	42-43-44	50
FVT3046	FVS-Z-46-ALU	46	45-46	50
FVT3049	FVS-Z-49-ALU	49	47-48-49	50
FVT3051	FVS-Z-51-ALU	51	50-51	50

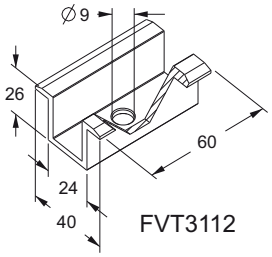
Universal "Ω" - shaped jaws for intermediate fixing



STAINLESS STEEL AISI 304

Code	Reference	
FVT1111	FVS-Z-U-EVO	100

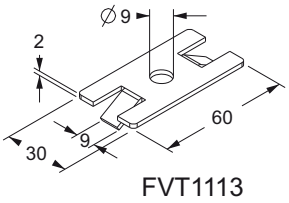
Universal "Ω" - shaped jaws for intermediate fixing



ALUMINIUM

Code	Reference	
FVT3112	FVS-Ω-U-ALU	100

Plate for intermediate fixing of panels

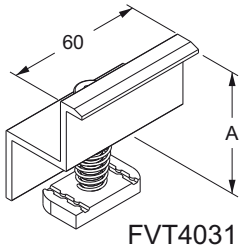


STAINLESS STEEL AISI 304

Code	Reference	
FVT1113	FVT-FPP-INOX	50

For details on the length o f the screws to be used for the installation, please contact the Technical Department, by indicating the staff the module thickness.

"Z" - shaped pre-assembled jaws for lateral fixing

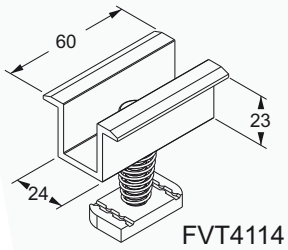


FVT4031

ALUMINIUM

Code	Reference	A (mm)	Thk (mm)	
FVT4031	FVS-ZP-31-ALU	31	29-30-31	20
FVT4034	FVS-ZP-34-ALU	34	32-33-34	20
FVT4036	FVS-ZP-36-ALU	36	35-36	20
FVT4039	FVS-ZP-39-ALU	39	37-38-39	20
FVT4041	FVS-ZP-41-ALU	41	40-41	20
FVT4044	FVS-ZP-44-ALU	44	42-43-44	20
FVT4046	FVS-ZP-46-ALU	46	45-46	20
FVT4049	FVS-ZP-49-ALU	49	47-48-49	20
FVT4051	FVS-ZP-51-ALU	51	50-51	20

Universal "Ω" - shaped preassembled jaws for intermediate fixing



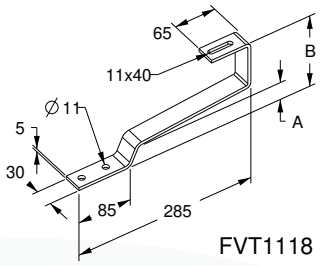
FVT4114

ALUMINIUM

Code	Reference	
FVT4114	FVS-Ω-UP-ALU-29-35	50
FVT4115	FVS-Ω-UP-ALU-36-45	50
FVT4116	FVS-Ω-UP-ALU-46-51	50

The three versions are devoted to the thickness range (mm) highlighted in the reference

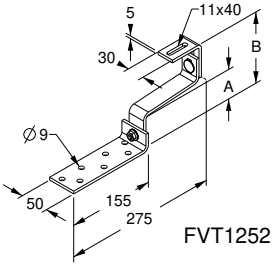
"S" - type bracket



FOR FIXING ON CONCRETE

Code	Reference	A (mm)	B (mm)	F	
FVT1118	FVSO-S-125-INOX	30	125	SS	16

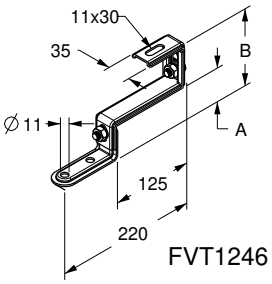
"S" - type adjustable bracket



FOR FIXING ON WOOD / CONCRETE

Code	Reference	A (mm)	B (mm)	F	
FVT1252	FVSO-P-RGL-SS	50 min - 62 max	110 min - 145 max	SS	16

"S" type - Adjustable bracket



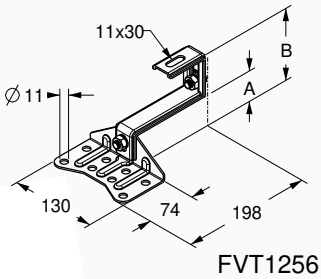
FVT1246

FOR FIXING ON CONCRETE

Codice	Riferimento	A (mm)	B (mm)	F	
FVT1246	FVS-S-RGL-EVO	48 min - 58 max	111 min - 145 max	SS	16
		* 57 min - 70 max	* 124 min - 145 max		

** Measured by inverting position of intermediate element*

"P" type - Adjustable bracket



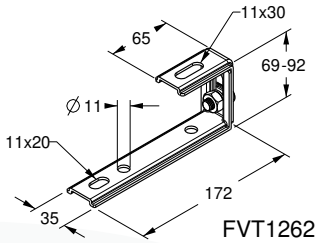
FVT1256

FOR FIXING ON WOOD

Codice	Riferimento	A (mm)	B (mm)	F	
FVT1256	FVS-P-RGL-EVO	44 min - 56 max	114 min - 148 max	SS	16
		* 55 min - 66 max	* 126 min - 148 max		

** Measured by inverting position of intermediate element*

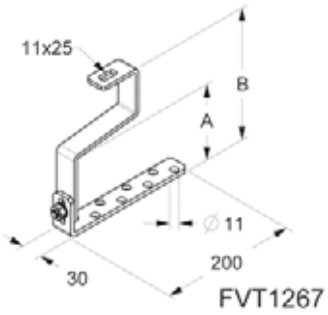
Adjustable “C” - type bracket



FOR FIXING ON CONCRETE

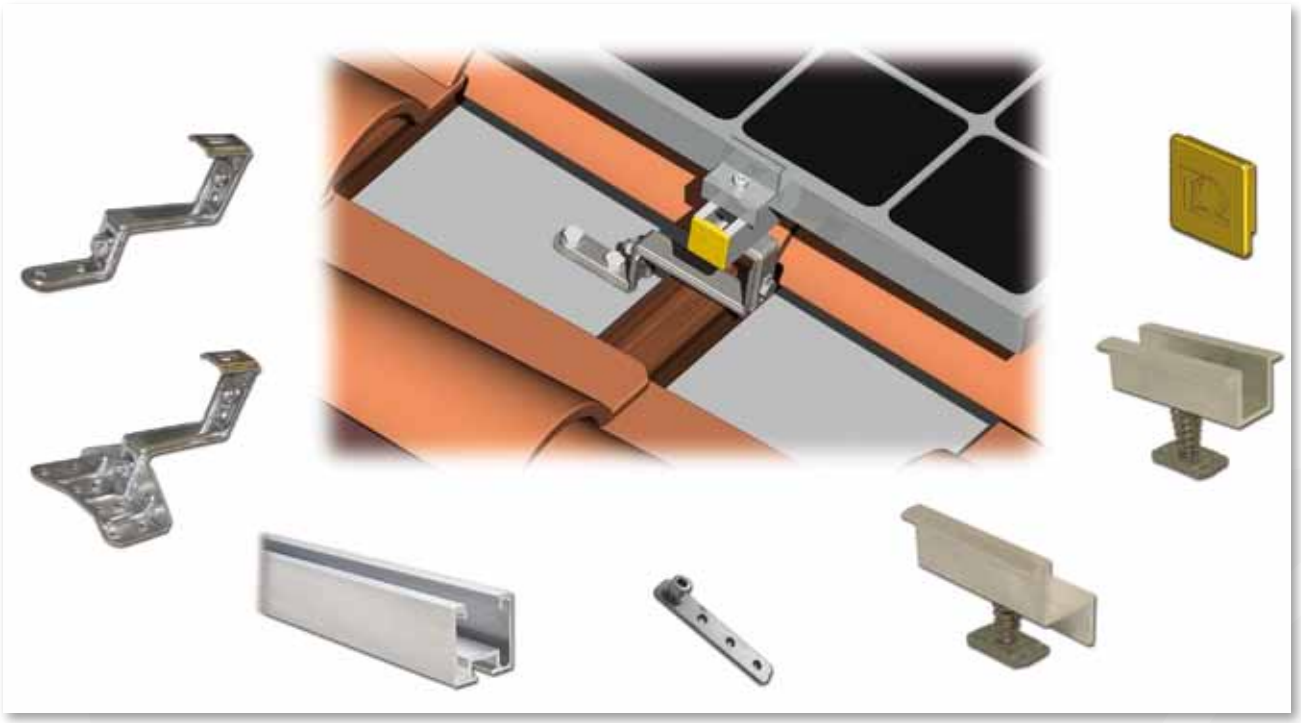
Code	Reference	Adjustment (mm)	F	
FVT1262	FVS-CST-RGL-INOX	da 69 a 92	SS	20

Adjustable “R” - type bracket



FOR FIXING ON CONCRETE

Code	Reference	A (mm)	B (mm)	F	
FVT1267	FVS-R-RGL-INOX	104 min - 126 max	183 min - 205 max	SS	8



For installation on sloping roof

In the light of direction that the photovoltaic market is undertaking, increasingly turned to the residential sector, Teknomega has studied and realized the 3kW Photovoltaic Kits. 5 different standards of installation composed of:
- Profiles/Channels to size
- Brackets for sloping roof
- Intermediate and lateral brackets for panels fixing
- Screws

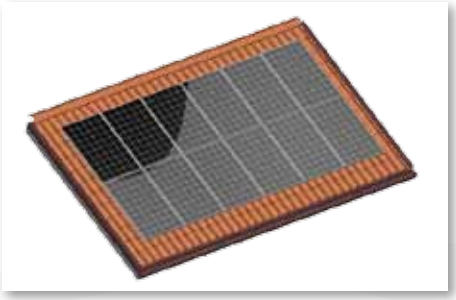
This kits satisfy the 80% of the normal requirements dictated by the current market.
The kits can be integrated or adapted to any customization request that the installer/user needs.
In this case Teknomega's engineers are at your diosal to provide the most professional support.
For the correct kits choice please consider: characteristics of tile and panel thickness
For the needed roof bracket, please select the correct item (see pag. 48) and put the code into the table instead of FVTXXXX
Example: FVT9704-50
- Kit Type 4 - diosition mixed with rooflight
- FVT1256 bracket- selected by the customer
- FVT4051 and FVT4116 jaws - for panel thickness 50 mm

FVT1256

Code	Reference	
FVT9220	Simple aluminum profile 41x41 I.2,2 Mt 1,6 thickness	12
FVTXXXX	For the correct part number please see page 85 and 86	36
FVT4051	"Preassembled "Z" bracket alu h 51 for panel 50-51"	24
FVT4116	"Preassembled "Ω" alu bracket for intermediate fixing panels 46-51 thk"	12
FVT1325	M10 x 20 stainless steel exagonal head screw + nut and washer	36

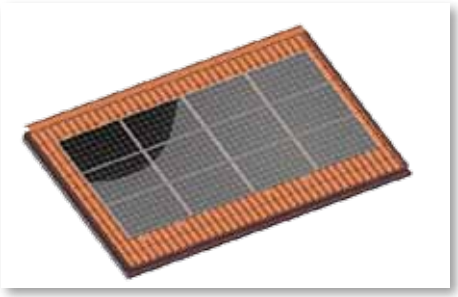
The examples of the following pages consider a panel with a thickness of 40 mm

KIT - Type 1 Code FVT9701-40



Code	Reference	
FVT9330	Simple aluminum profile 41x41 l.3,3 Mt 1,6 thickness	8
FVT1115	Stainless steel plate for aluminum profile's junction	4
FVTXXXX	For the correct part number please see page 85 and 86	28
FVT4041	"Preassembled "Z" bracket alu h 41 for panel 40-41"	8
FVT4115	"Preassembled "Ω" alu bracket for intermediate fixing panels 36-45 thk"	20
FVT1325	M10 x 20 stainless steel exagonal head screw + nut and washer	28

KIT - Type 2 Code FVT9702-40

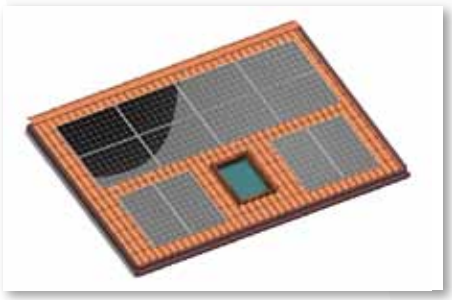


Code	Reference	
FVT9330	Simple aluminum profile 41x41 l.3,3 Mt 1,6 thickness	8
FVTXXXX	For the correct part number please see page 85 and 86	32
FVT4041	"Preassembled "Z" bracket alu h 41 for panel 40-41"	16
FVT4115	"Preassembled "Ω" alu bracket for intermediate fixing panels 36-45 thk"	16
FVT1325	M10 x 20 stainless steel exagonal head screw + nut and washer	32

KIT - Type 3 Code FVT9703-40

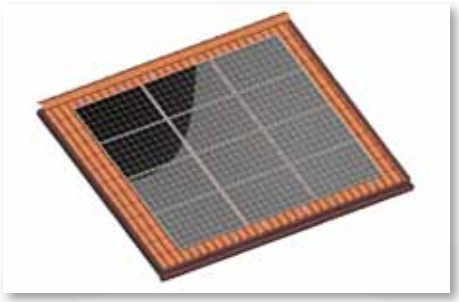
Code	Reference	
FVT9110	Simple aluminum profile 41x41 l.1,1 Mt 1,6 thickness	2
FVT9220	Simple aluminum profile 41x41 l.2,2 Mt 1,6 thickness	2
FVT9330	Simple aluminum profile 41x41 l.3,3 Mt 1,6 thickness	6
FVTXXXX	For the correct part number please see page 85 and 86	34
FVT4041	"Preassembled "Z" bracket alu h 41 for panel 40-41"	20
FVT4115	"Preassembled "Ω" alu bracket for intermediate fixing panels 36-45 thk"	14
FVT1325	M10 x 20 stainless steel exagonal head screw + nut and washer	34

KIT - Type 4 Code FVT9704-40



Code	Reference	
FVT9220	Simple aluminum profile 41x41 l.2,2 Mt 1,6 thickness	12
FVTXXXX	For the correct part number please see page 85 and 86	36
FVT4041	"Preassembled "Z" bracket alu h 41 for panel 40-41"	24
FVT4115	"Preassembled "Ω" alu bracket for intermediate fixing panels 36-45 thk"	12
FVT1325	M10 x 20 stainless steel exagonal head screw + nut and washer	36

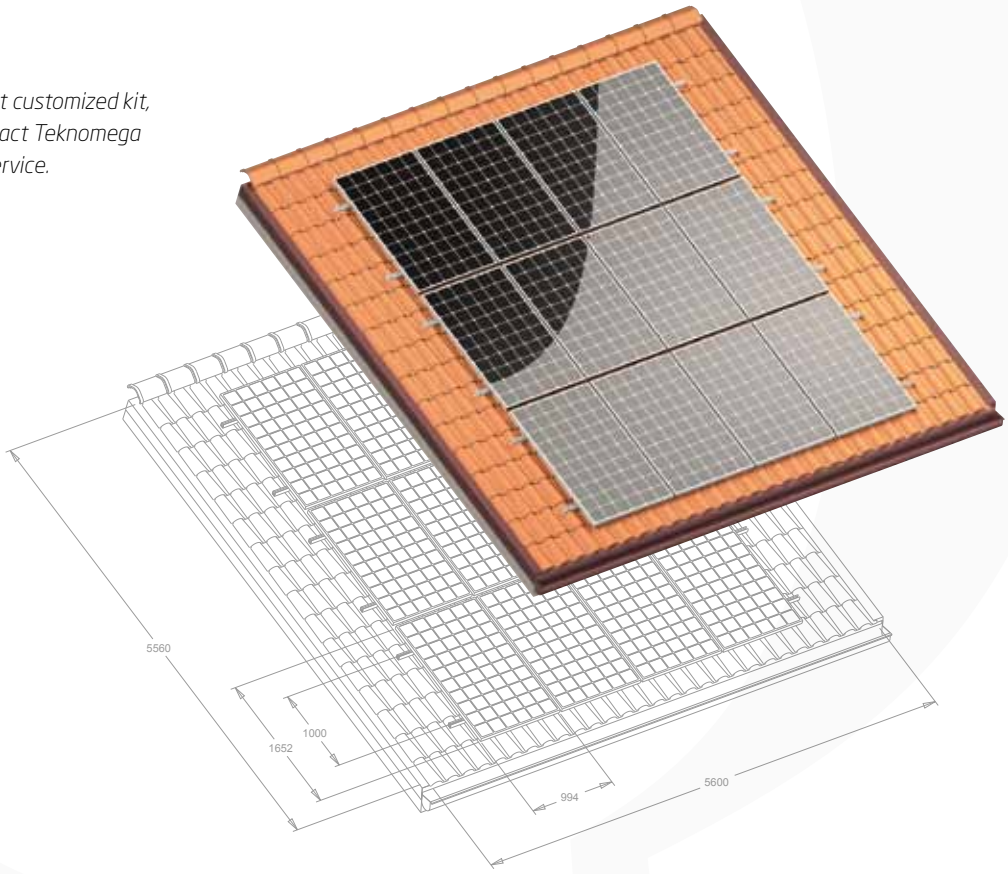
KIT - Type 5 Code FVT9705-40



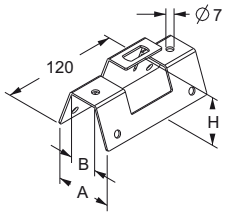
Code	Reference	
FVT9220	Simple aluminum profile 41x41 l.2,2 Mt 1,6 thickness	12
FVT1115	Stainless steel plate for aluminum profile's junction	6
FVTXXXX	For the correct part number please see page 85 and 86	30
FVT4041	"Preassembled "Z" bracket alu h 41 for panel 40-41"	12
FVT4115	"Preassembled "Ω" alu bracket for intermediate fixing panels 36-45 thk"	18
FVT1325	M10 x 20 stainless steel exagonal head screw + nut and washer	30

Built your kit here!

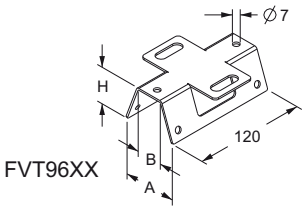
For different customized kit, please contact Teknomega technical service.



Stainless steel bracket upon drawing



FVT95XX

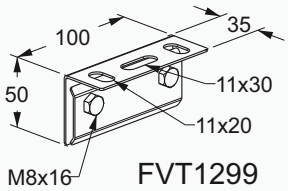


FVT96XX

Code	Reference	A (mm)	B (mm)	H (mm)	F
FVT95XX	FVT-SLG-R	SR	SR	SR	SS
FVT96XX	FVT-SLG-P	SR	SR	SR	SS

For manufacturing the bracket, it's always necessary to indicate the dimensions of the metal decking.
We suggest using the neoprene or butyl rubber gasket (see page 109)

Stainless steel clamp

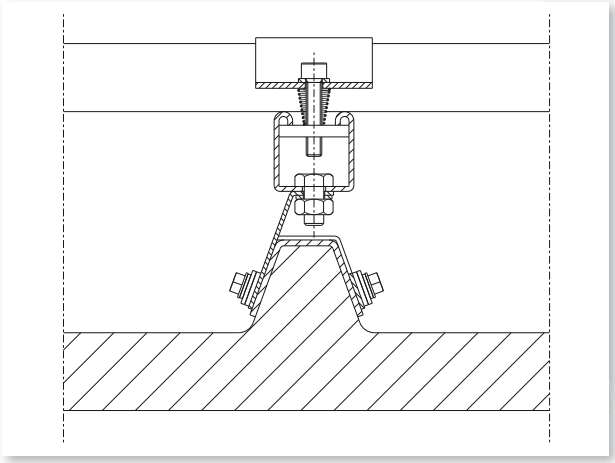


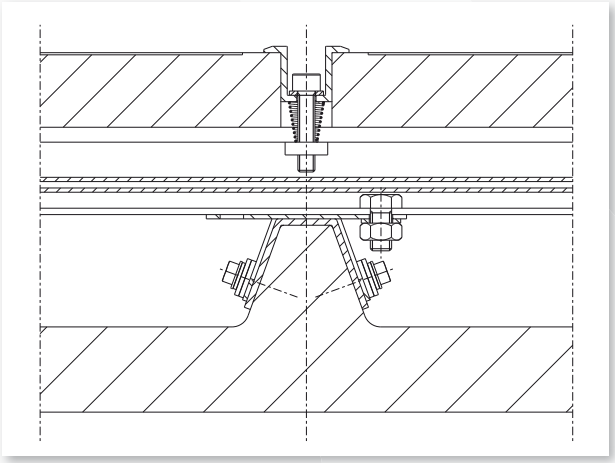
FVT1299

Code	Reference	F	
FVT1299	FVT-SLG-MRS-INOX	SS*	10

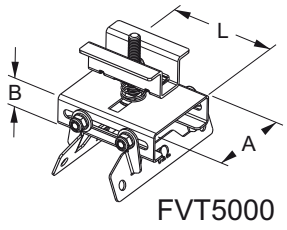
Nuts and screws TE M8x16 included – max. wrench torque 40N/m
** Material: Stainless steel AISI 430*

INSTALLATION EXAMPLES OF FVT95XX AND FVT96XX SUPPORTS





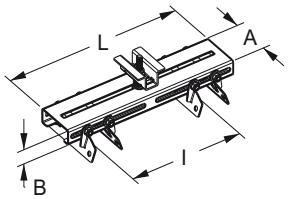
Universal kits for metal decking and sandwich panel



FVT5000

PREASSEMBLED KIT FOR FIXING A HORIZONTAL MODULE IN STAINLESS STEEL AISI304

Code	Reference	A (mm)	B (mm)	L (mm)	F	
FVT5000	FVT-SLG-U080-INOX	63	23	80	SS	20
FVT50XX	Fixing template	Please provide the panel width			S	1



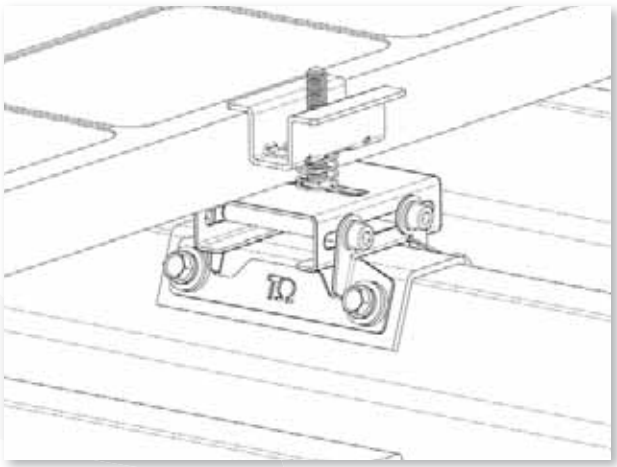
FVT5005

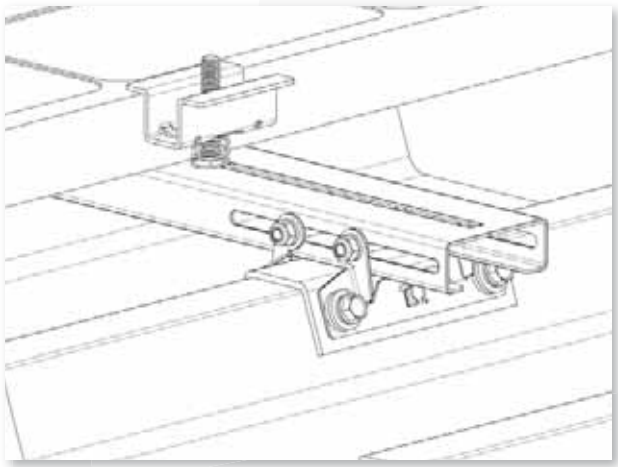
PREASSEMBLED KIT FOR FIXING A VERTICAL MODULE IN STAINLESS STEEL AISI304

Code	Reference	A (mm)	B (mm)	L (mm)	I (mm)	F	
FVT5005	FVT-SLG-UV280-INOX	63	23	280	110-250	SS	10
FVT5010	FVT-SLG-UV400-INOX	63	23	400	250-330	SS	10

For tightening the bracket, please use the sleeve wrench type Beta series 900L 13 mm or a sleeve wrench, type Usag code 235543 of 13 mm. Tightening strenght: follow modules producer instructions.

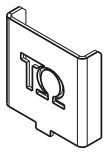
INSTALLATION EXAMPLES





Patent pending

Side spacer



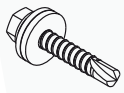
FVT5041

STAINLESS STEEL AISI 304

Code	Reference	A (mm)	Thk* (mm)	
FVT5030	FVS-UP-30-INOX	30	29-30-31	20
FVT5033	FVS-UP-33-INOX	33	32-33-34	20
FVT5036	FVS-UP-36-INOX	36	35-36	20
FVT5038	FVS-UP-38-INOX	38	37-38-39	20
FVT5041	FVS-UP-41-INOX	41	40-41	20
FVT5043	FVS-UP-43-INOX	43	42-43-44	20
FVT5046	FVS-UP-46-INOX	46	45-46	20
FVT5048	FVS-UP-48-INOX	48	47-48-49	20
FVT5051	FVS-UP-51-INOX	51	50-51	20

** Thickness of the photovoltaic module used.*

Self-drilling and self-threading screws for metal decking brackets

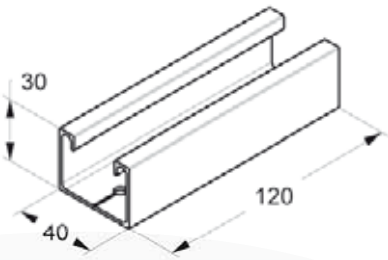


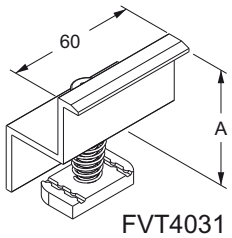
FVT1545

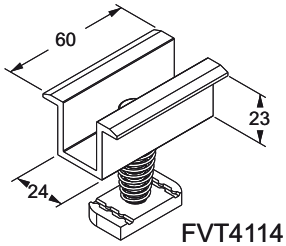
Code	Reference	M	F	
FVT1545	FVT-VLG-6x25-INOX	6	SS	100

EPDM gaskets included

Aluminum Profile for metal decking or sandwich panel



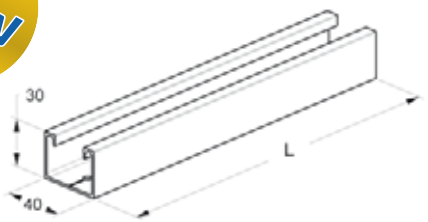


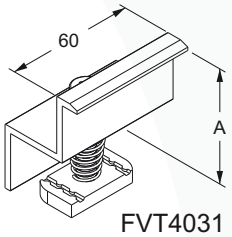


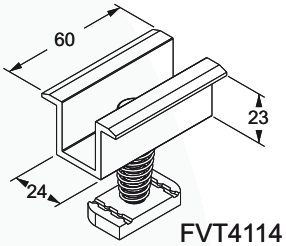
To be ordered separately (see page 76)

ALU PROFILE SEGMENT FOR HORIZONTAL PANELS

Code	Reference	L (mm)	Thk (mm)	Weight (kg)	
FVT5120	FVP-L120-RI-ALU	120	1,6	0,062	16





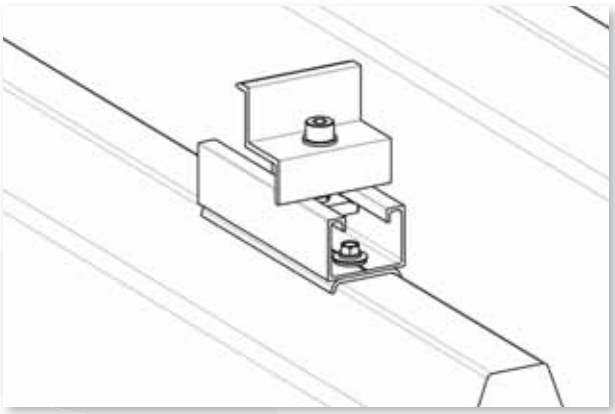


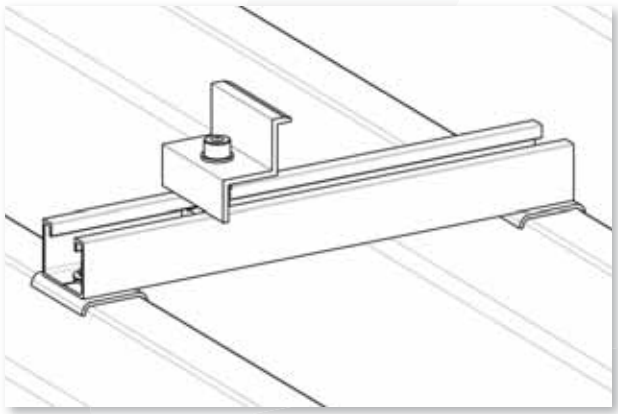
To be ordered separately (see page 76)

ALU PROFILE SEGMENT FOR VERTICAL PANELS

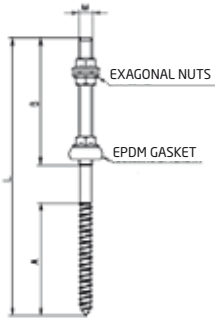
Code	Reference	L (mm)	Thk (mm)	Weight (kg)	
FVT5250	FVP-L230-RI-ALU	230	1,6	0,123	16
FVT5300	FVP-L280-RI-ALU	280	1,6	0,150	16
FVT5400	FVP-L363-RI-ALU	363	1,6	0,194	16

INSTALLATION EXAMPLES





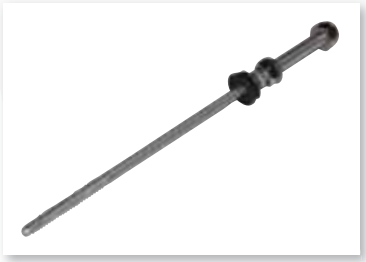
Double thread mill screws with EPDM gasket



FIXING ON WOOD OR CONCRETE

Code	Reference	M	A (mm)	B (mm)	L (mm)	F	
FVT1300	FVA-AF-10X200-INOX	M10	67	110	200	SS	50
FVT1305	FVA-AF-10X250-INOX	M10	67	125	250	SS	50
FVT1310	FVA-AF-12X250-INOX	M12	100	120	250	SS	50
FVT1315	FVA-AF-12X300-INOX	M12	100	170	300	SS	50
FVT1316	FVA-AF-12X350-INOX	M12	100	215	350	SS	50

Nuts-washers- gaskets included for use on concrete used on a suitable shim

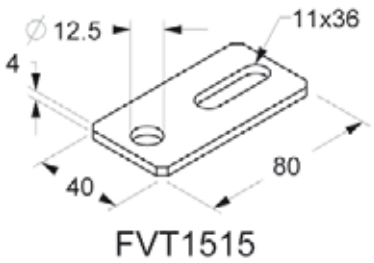


Ø mm pre-hole for fixing on metal	
Structure (mm)	Pre-hole (mm)
5,0 ≤ 7,5	7
7,5 ≤ 10	7,2
≥ 10	7,4

METAL FIXING

Code	Reference	M1	M2	A (mm)	B (mm)	F	
FVT1317	FVA-AF-80-50M10-INOX	M10	8	80	50	SS	25
FVT1318	FVA-AF-100-50M10-INOX	M10	8	100	50	SS	25
FVT1319	FVA-AF-150-50M10-INOX	M10	8	150	50	SS	25

Nuts-washers- gaskets included

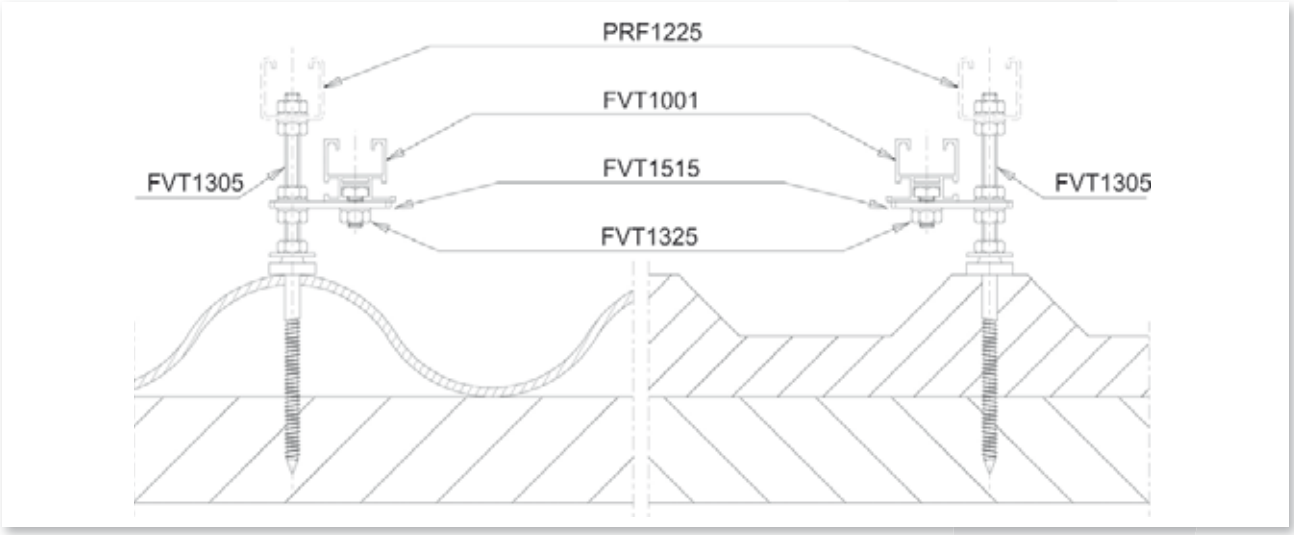


FVT1515

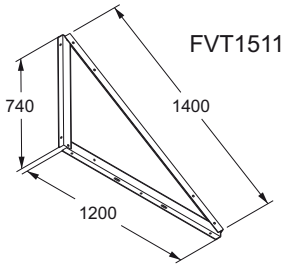
FIXING PLATE

Code	Reference	F	
FVT1515	FVT-P2-SS	SS	50

INSTALLATION EXAMPLES



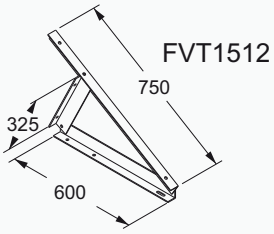
Triangles for supporting panels



VERTICAL MODULE

Code	Reference	Angle	F	
FVT1511	FVT-TRG-R-EVO	30°-35°-40°-45°	ALU	1

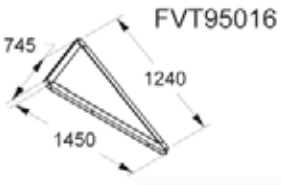
Code FVT1511 to be used together with a concrete ballast (FVT1457) or ballast tank (FVT1455)

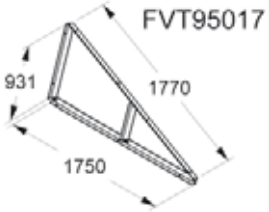


HORIZONTAL MODULE

Code	Reference	Angle	F	
FVT1512	FVT-TRG-OR	30°	ALU	1

Code FVT1512 to be used together with a concrete ballast (FVT1457) or ballast tank (FVT1455)



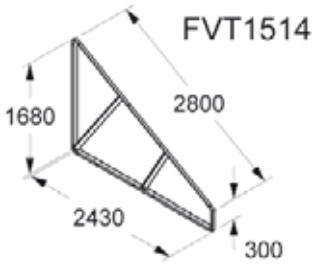


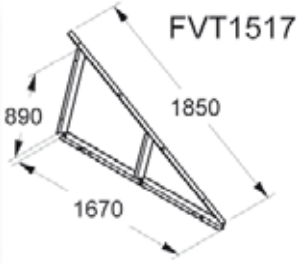
TRIANGLES USED WITH BALLASTS

Code	Reference	Angle	Panel Orientation	Number of Panels	F	
FVT95016	FVT-TSV	30°	Vertical	Single	ALU	1
FVT95017	FVT-TDH	30°	Horizontal	Double	ALU	1

Available with different inclinations upon request

Double triangle



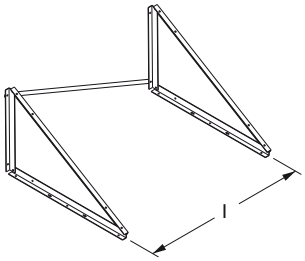


TRIANGLES USED WITH ANCHORS

Code	Reference	Angle	Panel Orientation	Number of Panels	F	
FVT1514	FVT-TRG-DP	30°	Vertical	Double	ALU	1
FVT1517	FVT-TRG-DP-O	30°	Horizontal	Double	ALU	1

Available with different inclinations upon request

Wind rod for triangles

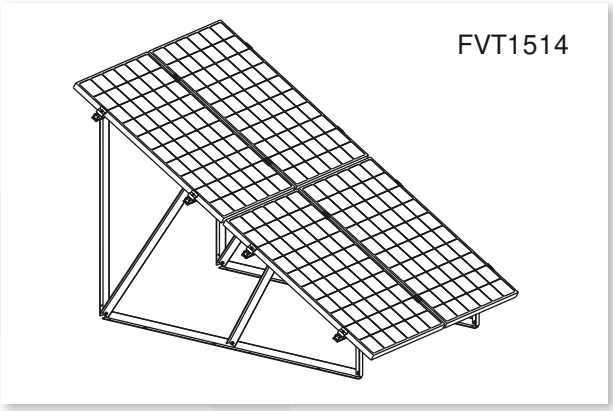


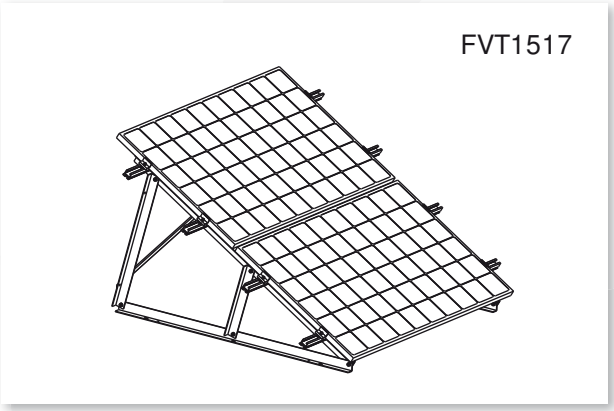
Code	Reference	l (m)	F	
FVT1285	FVT-SCV-ZC	1,5	ZC	10
FVT1286	FVT-SCV-ALU	1,5	ALU	10
FVT1287	FVT-SCV-S-ALU	1	ALU	10
FVT1288	FVT-SCV-C-ALU	1	ALU	10

FVT1287: wind rod for triangle FVT1511, FVT1517, FVT95016 and FVT95017.
FVT1288: wind rod for triangle FVT1512

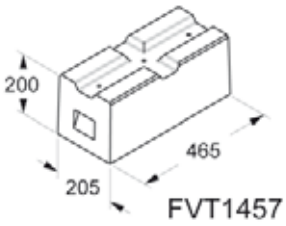
Upon request, ALU wind rods according to specific length
For fixing to triangles, we suggest Allen screws M10x30 (code FVT1347)

INSTALLATION EXAMPLES

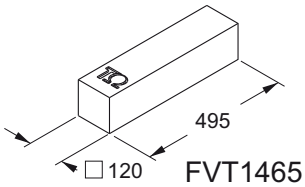




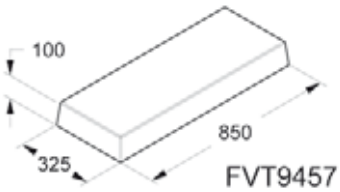
Concrete ballasts



FVT1457



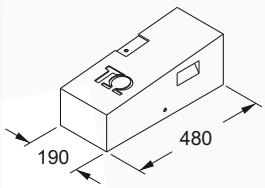
FVT1465



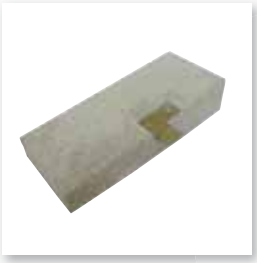
FVT9457

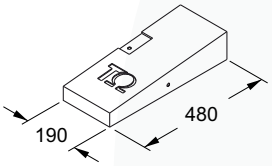
Code	Reference	Weight (kg)	
FVT1457	FVV-ZVC	40	1
FVT1465	FVV-ZVC-1002	14	1
FVT9457	FVV-ZMP-C	60	1

FVT1457 With thread inserts M10
For applications on ballasts, see page 115 and page 116



FVT1458





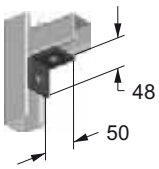
FVT1459

FLAT SYSTEM

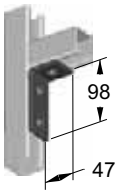
Code	Reference	Weight (kg)	
FVT1458	FVV-ZVC-30-1	33	1
FVT1459	FVV-ZVC-30-2	18	1

With threaded inserts M10
Bracket and fixing screws and nuts included
Max. H projection 30 cm using the fixing profile H 41 with module 1660x990, Thk 50
For installation instructions, see page 115

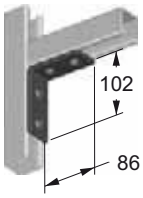
Thickness 6 mm - Holes diameter 14 mm



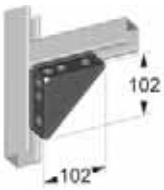
STF1105



STF1110



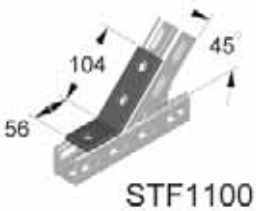
STF1115



STF1120

ANGULAR BRACKETS AT 90°

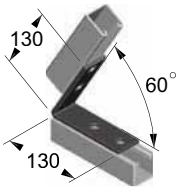
Code	Reference	
STF1105	STF-WL2	10
STF1110	STF-WL3	10
STF1115	STF-WL4	10
STF1120	STF-WL4R	10



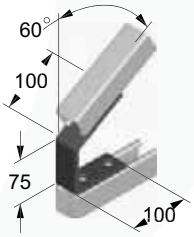
STF1100

BRACKET AT 45°

Code	Reference	
STF1100	STF-W45	10



STF1101

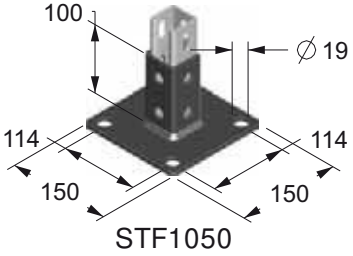


STF1102

BRACKET AT 30°

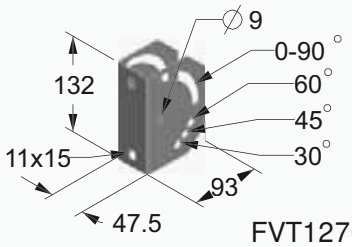
Code	Reference	
STF1101	STF-W30A	10
STF1102	STF-W30-90A	10

Thickness 6 mm - Holes diameter 14 mm



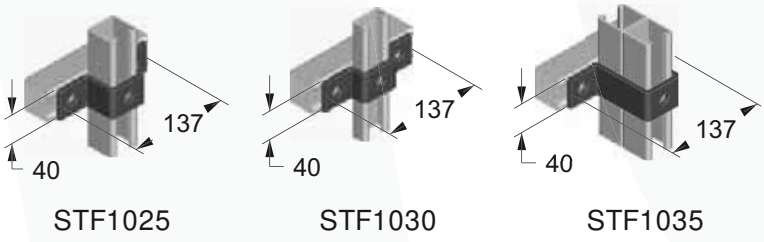
BASIC PLATE FOR BRACKET

Code	Reference	
STF1050	STF-B41	10



BRACKET WITH ADJUSTABLE ANGLE

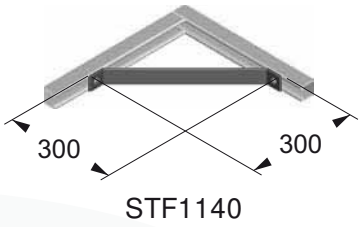
Code	Reference	
FVT1270	FVS-AV-ZC	10



"OMEGA"-SHAPED BRACKETS

Code	Reference	
STF1025	STF-041	10
STF1030	STF-021	10
STF1035	STF-82	10

Thickness 6 mm - Holes diameter 14 mm
Hot-dip galvanized



ARROW-SHAPED REINFORCING BRACKET

Code	Reference	
STF1140	STF-SR300	10

STRUT nuts with Spring

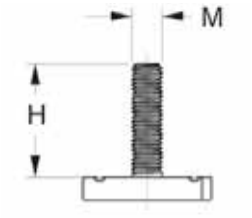
HOT-DIP GALVANIZED

Code	Reference	M		F	Thk (mm)
DAP2000	DAP-M6-S-ZC	M6	100	Z	6,5
DAP2005	DAP-M8-S-ZC	M8	100	Z	6,5
DAP2010	DAP-M10-S-ZC	M10	100	Z	8
DAP2020	DAP-M6-C-ZC	M6	100	Z	6,5
DAP2025	FVA-M8-C-ZC	M8	100	Z	6,5
DAP2030	FVA-M10-C-ZC	M10	100	Z	8
DAP2040	FVA-M6-L-ZC	M6	100	Z	6,5
DAP2045	FVA-M8-L-ZC	M8	100	Z	6,5
DAP2050	FVA-M10-L-ZC	M10	100	Z	8

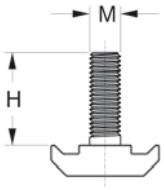
STAINLESS STEEL AISI 304

Code	Reference	M		F	Thk (mm)
DAP3005	FVA-M8-S-SS	M8	100	SS	6,5
DAP3010	FVA-M10-S-SS	M10	100	SS	8
DAP3025	FVA-M8-C-SS	M8	100	SS	6,5
DAP3030	FVA-M10-C-SS	M10	100	SS	8
DAP3045	FVA-M8-L-SS	M8	100	SS	6,5
DAP3050	FVA-M10-L-SS	M10	100	SS	8

Head hammer screw



FVT1395

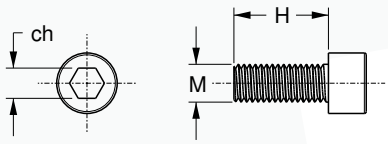


FVT1400

ELECTROLYTIC GALVANIZATION

Code	Reference	MxH	
FVT1395	FVA-TM-8X30-ZC	M8x30	100
FVT1400	FVA-TM-10X30-ZC	M10x30	100

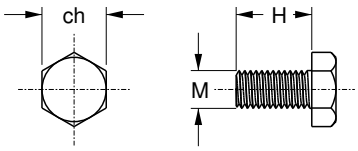
Allen screw with washer



STAINLESS STEEL AISI 304

Code	Reference	MxH	ch (mm)	
FVT1330	FVA-TCEI-8x10-INOX	M8x10	6	100
FVT1331	FVA-TCEI-8x60-INOX	M8X60	6	100
FVT1332	FVA-TCEI-8x20-INOX	M8x20	6	100
FVT1333	FVA-TCEI-8x65-INOX	M8X65	6	100
FVT1334	FVA-TCEI-8x75-INOX	M8x75	6	100
FVT1335	FVA-TCEI-8x25-INOX	M8x25	6	100
FVT1337	FVA-TCEI-8x30-INOX	M8x30	6	100
FVT1338	FVA-TCEI-8x35-INOX	M8X35	6	100
FVT1340	FVA-TCEI-8x40-INOX	M8x40	6	100
FVT1341	FVA-TCEI-8x45-INOX	M8X45	6	100
FVT1342	FVA-TCEI-8x50-INOX	M8x50	6	100
FVT1343	FVA-TCEI-8x55-INOX	M8X55	6	100
FVT1344	FVA-TCEI-8x70-INOX	M8x70	6	100
FVT1345	FVA-TCEI-10x25-INOX	M10x25	8	100
FVT1346	FVA-TCEI-10x20-INOX	M10x20	8	100
FVT1347	FVA-TCEI-10x30-INOX	M10X30	8	100
FVT1350	FVA-TCEI-10x40-INOX	M10x40	8	100
FVT1355	FVA-TCEI-10X50-INOX	M10X50	8	100

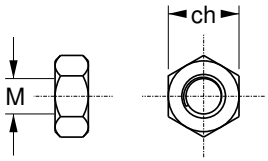
Screw kit TE with nut and washer



STAINLESS STEEL AISI 304

Code	Reference	MxH	ch (mm)	
FVT1320	FVA-TE-8x16-INOX	M8x16	13	100
FVT1325	FVA-TE-10x20-INOX	M10x20	17	100

Stainless steel nut and washer kit



STAINLESS STEEL AISI 304

Code	Reference	M	ch (mm)	
FVT1358	FVA-DR-M8-INOX	M8	13	100
FVT1359	FVA-DR-M10-INOX	M10	17	100

Antitheft ball for Allen screws M8

STAINLESS STEEL AISI 304

Code	Reference	
FVT1356	FVA-SA-8-INOX	100

Sphere diameter = 6,35mm

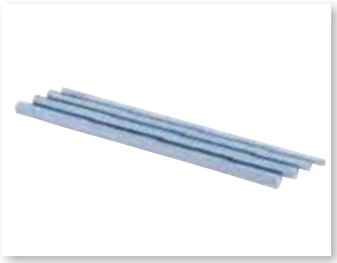
Antitheft screw with matrix wrench

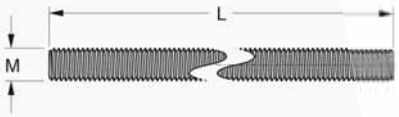
STAINLESS STEEL AISI 304

Code	Reference	MxH	
FVT1360	FVA-ΩB-8x20-INOX	M8x20	100
FVT1365	FVA-ΩB-8x25-INOX	M8x25	100
FVT1370	FVA-ΩB-8x30-INOX	M8x30	100
FVT1375	FVA-ΩB-8x35-INOX	M8x35	100
FVT1380	FVA-ΩB-8x40-INOX	M8x40	100
FVT1385	FVA-ΩB-8x45-INOX	M8x45	100
FVT1390	FVA-ΩB-8x50-INOX	M8x50	100
FVT1391	FVA-ΩB-Key	-	1

Length of threaded part: 22mm

Threaded rod

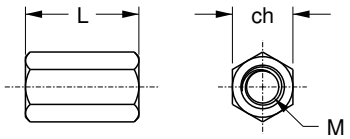




STAINLESS STEEL AISI 304

Code	Reference	F	M	L (mm)	
FVT1405	FVA-BF-M8-INOX	SS	M8	1000	10
FVT1410	FVA-BF-M10-INOX	SS	M10	1000	10

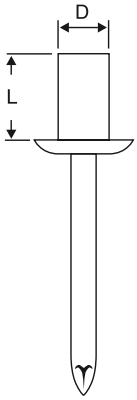
Threaded sleeve

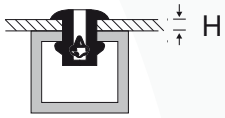


STAINLESS STEEL AISI 304

Code	Reference	F	M	ch (mm)	L (mm)	
FVT1415	FVA-MF-8x30-INOX	SS	M8	13	30	10
FVT1420	FVA-MF-10x30-INOX	SS	M10	17	30	10

Watertight rivets



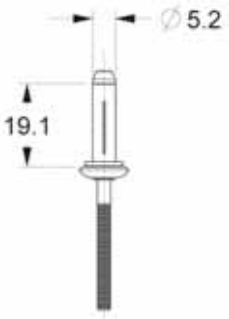


ALUMINIUM

Code	Reference	D (mm)	L (mm)	H (mm)	
FVT1470	RIV-ST-48-11-ALU	4,8	11,5	4-6,5	100

Mounting hole diameter 5 mm

Aluminum dome head bulb-tites rivet

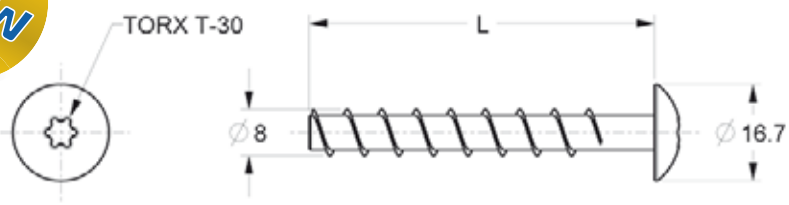


ALUMINIUM

Code	Reference	D (mm)	L (mm)	H (mm)	
NEW **FVT9470**	RIV-ST-52-191-ALU	5,2	19,1	1,5 ÷ 6,4	100

Mounting hole diameter 5,5 mm

Self-threading screws for concrete



Code	Reference	D (mm)	L (mm)	
FVT9200	FVA-VAC-8-80	8	80	100
FVT9201	FVA-VAC-8-60	8	60	100

Hole: Ø 6 mm

Antitheft insert

Code	Reference	
FVT9210	FVA-VAC-IA	100

To use with self-threading screws for concrete code FVT9200 and FVT9201

Plastic caps for STRUT profiles

Code	Reference	
BUL1020	BUL-TP21	100
BUL1025	BUL-TP41	100

Neoprene gaskets in rolls

Code	Reference	Dimensions (mm)	Use	
FVT1530	FVT-GN-120	120x3 (x10 m)	Brackets for metal decking	1
FVT1535	FVT-GN-80	80x3 (x10 m)	Brackets for metal decking	1
FVT1540	FVT-GN-7	7x2 (x 20 m)	Z-shaped and aluminium Ω-shaped brackets	1

Butyl and bituminous gaskets

Code	Reference	Dimensions (mm)	Material	Use	
FVT1550	FVT-GBU-50	50x1,5 (x10 m)	Netted butyl tape	Under brackets and profiles	1
FVT1551	FVT-GBU-10	10x1,5 (x10 m)	Netted butyl tape	Under brackets and profiles	1
FVT1552	FVT-GBU-120	120x1,5 (x10 m)	Netted butyl tape	Under brackets and profiles	1
FVT1555	FVT-MBI-1000	1000x1,2(x20 m)	Bituminous membrane	Roof waterproofing	1
FVT1560	FVT-MBI-K	Cartridge	Bituminous mastic	Waterproofing	1

Electrical components

TECHNICAL FEATURES

Conductor

Proved and tested for uses up to 1000 V DC
Screws included
Insulating protection between the phases
Insulating self-extinguishing structure: UL 94V0
Quick clutch on DIN guide
Icw according to the standard IEC 947-7-1
RPB1005: right or left inlets

BIPOLAR 125A

Code	Reference	Peso (Kg)	L (mm)	H (mm)	P (mm)	Center distance between the fixing holes (mm)	
RPB1005	RPB 125-14	0,206	132	45	51	112	1

TECNICAL TABLES

Code	IN/OUT	Cable desnudo (mm²)	Cable con Puntal (mm²)	N°	Ø (mm)	(Nm)	Icw rms 1s (kA)	Ipk (kA)	Ui (V)
RPB1005	IN ⟶	10 ÷ 35	10 ÷ 25	1	9,0	2 - 3	4,2	20	500
	IN - OUT ⟷	10 ÷ 35	10 ÷ 25	1	9,0	2 - 3			
	⟵ OUT	2,5 ÷ 6	1,5 ÷ 6	11	5,5	2 - 3			
	⟵ OUT	10 ÷ 25	6 ÷1 6	2	7,5	2 - 3			

The bipolar terminal board RPB1005 is proven and tested for the use in DC and is an excellent solution for connecting the string cables

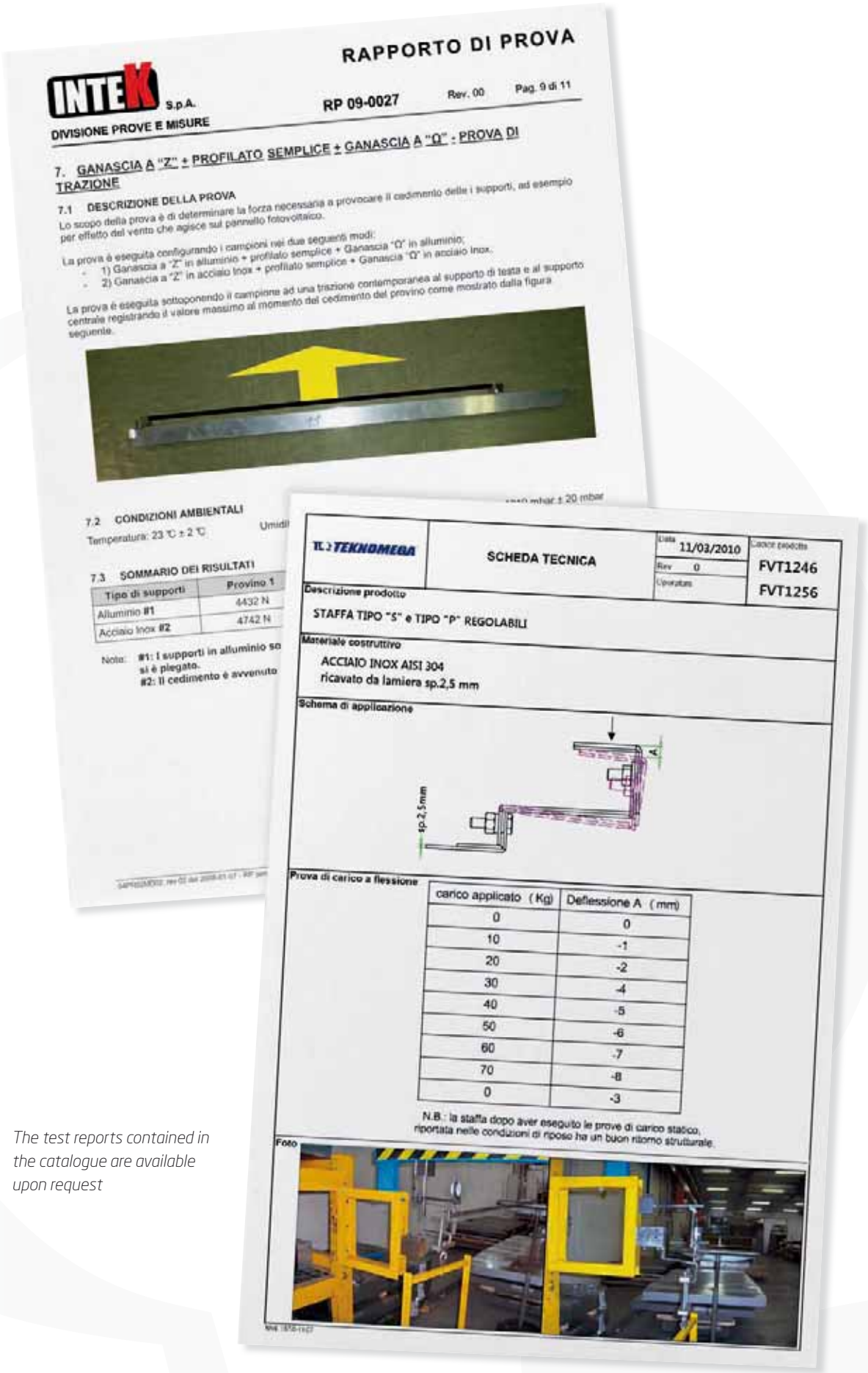
INTEK S.p.A.

RAPPORTO DI PROVA

DIVISIONE PROVE E MISURE **RP 09-0554** Rev. 00 Pag. 12 di 13

- Tabella 05: VERIFICA DELLA TENUTA DI RIGIDITÀ A FREQUENZA DI ESERCIZIO

Secondo tabella 12A EN 60947-1 Tensione di isolamento nominale U_i [V]	Tensione per prova dielettrica [V_{ac}]	Esito		Note
		Tra parti attive di differente polarità	Tra parti attive di differente polarità e l'involucro ricoperto da un foglio di Alluminio	
800< U_i≤1000	2200	*Conforme*	*Conforme*	Non si verificano scariche dopo 1 minuto



RAPPORTO DI PROVA

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DIVISIONE PROVE E MISURE

RP 09-0027 Rev. 00 Pag. 9 di 11

7. GANASCIA A "Z" + PROFILATO SEMPLICE + GANASCIA A "Ω" : PROVA DI TRAZIONE

7.1 DESCRIZIONE DELLA PROVA

Lo scopo della prova è di determinare la forza necessaria a provocare il cedimento delle i supporti, ad esempio per effetto del vento che agisce sul pannello fotovoltaico.

La prova è eseguita configurando i campioni nei due seguenti modi:
- 1) Ganascia a "Z" in alluminio + profilato semplice + Ganascia "Ω" in alluminio;
- 2) Ganascia a "Z" in acciaio Inox + profilato semplice + Ganascia "Ω" in acciaio Inox.

La prova è eseguita sottoponendo il campione ad una trazione contemporanea al supporto di testa e al supporto centrale registrando il valore massimo al momento del cedimento del provino come mostrato dalla figura seguente.

7.2 CONDIZIONI AMBIENTALI

Temperatura: 23 °C ± 2 °C

7.3 SOMMARIO DEI RISULTATI

Tipo di supporti	Provino 1
Alluminio #1	4432 N
Acciaio Inox #2	4742 N

Nota: #1: I supporti in alluminio so si è piegato.
#2: Il cedimento è avvenuto

TEKNOMEGA

SCHEDA TECNICA

Data 11/03/2010
Rev 0
Operatore

Codice prodotto
FVT1246
FVT1256

Descrizione prodotto
STAFFA TIPO "S" e TIPO "P" REGOLABILI

Materiale costruttivo
ACCIAIO INOX AISI 304
ricavato da lamiera sp.2,5 mm

Schema di applicazione

sp.2,5 mm

Prova di carico a flessione

carico applicato (Kg)	Deflessione A (mm)
0	0
10	-1
20	-2
30	-4
40	-5
50	-6
60	-7
70	-8
0	-3

N.B.: la staffa dopo aver eseguito le prove di carico statico, riportata nelle condizioni di riposo ha un buon ritorno strutturale.

Foto

The test reports contained in the catalogue are available upon request

LEGA DI ALLUMINIO DA ESTRUSIONE — EN AW-6060

La lega EN AW-6060 è la lega da estrusione più diffusa sul mercato europeo, per le sue doti di alta velocità di deformazione a caldo.
Essa consente la realizzazione di profilati con sezione anche complessa, comprendente molteplici cavità e scanalature, per avvicinare quanto più possibile il disegno dell'estruso a quello del manufatto finito, e ridurre al minimo le lavorazioni intermedie.

Caratteristiche fisiche

massa volumica :	2,70	g / cm³
punto di fusione inferiore :	605	°C
calore specifico tra 0° e 100°C:	890	J/Kg °K
modulo di elasticità lineare E:	69000	N / mm²
modulo elasticità tangenziale G:	26000	N/ mm²

conducibilità termica a 20°C	- nello stato O:	2,09	W / cm °K
	-nello stato T6:	1,75	W / cm °K
coefficiente di dilatazione termica lineare	-tra 20° e 100°C:	23,0 ⊠10⁻⁶	1 / °K
	-tra 20° e 200°C:	24,0 ⊠10⁻⁶	1 / °K
	-tra 20° e 300°C:	25,0 ⊠10⁻⁶	1 / °K
resistività elettrica a 20°C	-nello stato O:	3,14	µΩ ⊠cm
	-nello stato T6	3,25	µΩ ⊠cm

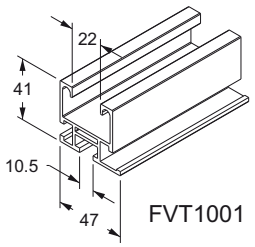
Composizione chimica secondo Norma Europea EN 573.3

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Altri ciascuno	Altri totale	Al
EN AW-6060	0,30 ÷ 0,60	0,10 ÷ 0,30	0,10 max	0,10 max	0,35 ÷ 0,60	0,05 max	0,15 max	0,10 max	0,05 max	0,15 max	resto

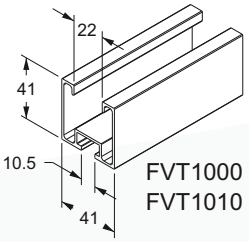
Proprietà meccaniche minime, secondo Norma Europea EN 755.2

Tipi di profilo	(1) stato fisico di fornitura	dametro D [mm] per tondi, o spess. S [mm] per barre, o spess. di parete e per profili		Carico di rottura a trazione Rm [MPa] min	Carico di rottura a trazione Rm [MPa] max	Carico limite di elasticità $R_{p0.2}$ [MPa] min	Carico limite di elasticità $R_{p0.2}$ [MPa] max	Allungamento A % min	Allungamento A_{50mm} % min
Barre piene	T4 (*)	D ≤ 150	S ≤ 150	120	-	60	-	16	14
	T5	D ≤ 150	S ≤ 150	160	-	120	-	8	6
	T6 (*)	D ≤ 150	S ≤ 150	190	-	150	-	8	6
	T64 (*)	D ≤ 50	S ≤ 50	180	-	120	-	12	10
	T66 (*)	D ≤ 150	S ≤ 150	215	-	160	-	8	6
Tubo estruso	T4 (*)	e ≤ 15		120	-	60	-	16	14
	T5			160	-	120	-	8	6
	T6 (*)			190	-	150	-	8	6
	T64 (*)			180	-	120	-	12	10
	T66 (*)			215	-	160	-	8	6
Profili aperti e cavi	T4 (*)	e ≤ 25		120	-	60	-	16	14
	T5	e ≤ 5		160	-	120	-	8	6
		5 < e < 25		140	-	100	-	8	6
	T6 (*)	e ≤ 3		190	-	150	-	8	6
		3 < e < 25		170	-	140	-	8	6
	T64 (*)	e ≤ 15		180	-	120	-	12	10
	T66 (*)	e ≤ 3		215	-	160	-	8	6
		3 < e < 25		195	-	150	-	8	6

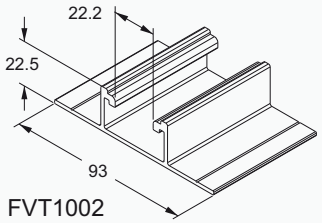
NOTA (*) : proprietà meccaniche dello stato fisico indicato ottenibili anche con tempra alla pressa
(1) : vedasi Tavola relativa a: "Descrizione dei trattamenti e degli stati metallurgici adottati nella produzione standard"



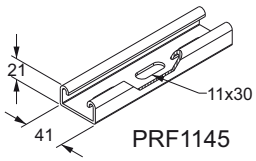
FVT1001



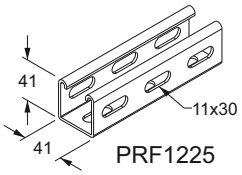
FVT1000
FVT1010



FVT1002



PRF1145



PRF1225

Acciai per imbutitura e piegatura a freddo — EN 10111:2008

Questi acciai sono caratterizzati da limiti massimi di snervamento e di rottura ed allungamenti minimi garantiti. Sono classificati in ordine crescente di formabilità e possono pertanto essere utilizzati nelle diverse lavorazioni a freddo, dagli stampaggi meno critici (DD11) fino alle più profonde imbutiture (DD14).

CARATTERISTICHE MECCANICHE

Qualità	R_e (Mpa) min-max		R_m (Mpa)	A_{80} (%) min		A_5 (%) min
EN 10111:2008	1,5 ≤ t ≤ 2,0	2,0≤ t ≤8,0		1,5≤ t ≤2,0	2,0≤ t ≤3,0	3,0≤ t ≤8,0
DD11	170-360	170-340	440	≥23	≥24	≥28
DD12	170-340	170-320	420	≥25	≥26	≥30
DD13	170-330	170-310	400	≥28	≥29	≥33
DD14	170-310	170-290	380	≥31	≥32	≥36

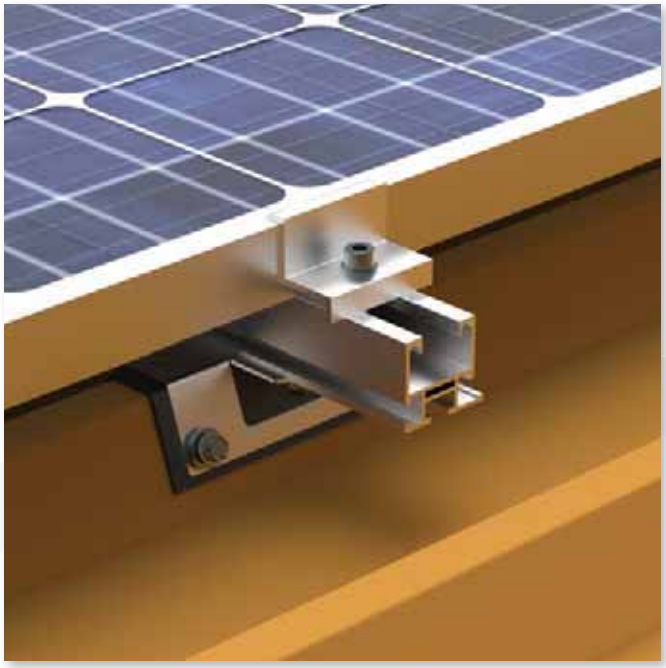
COMPOSIZIONE CHIMICA

Qualità	C (%)	Mn (%)	P (%)	S (%)
EN 10111:2008	max	max	max	max
DD11	0,12	0,60	0,045	0,045
DD12	0,10	0,45	0,035	0,035
DD13	0,08	0,40	0,030	0,030
DD14	0,08	0,35	0,025	0,025

TABELLE DI COMPARAZIONE

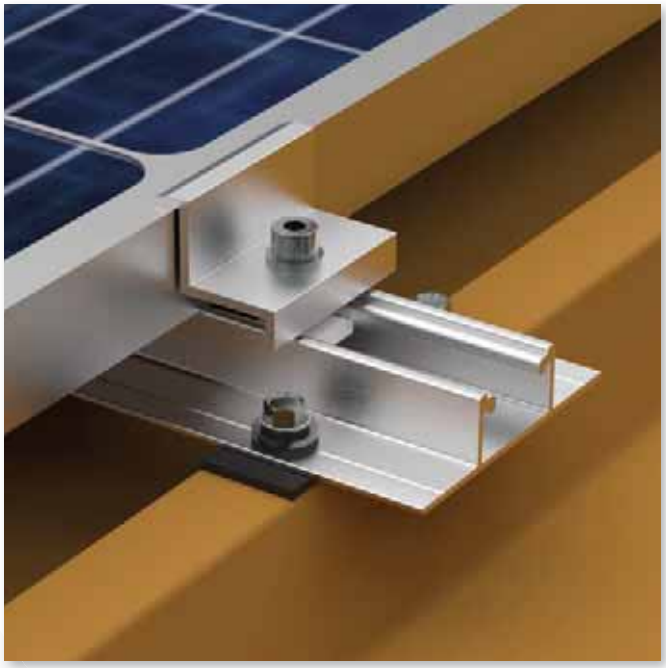
EUROPA	MATERIALE	I	D	E	F	GB	USA	JAPAN
EN 10111:2008	N°	UNI 5867:73	DIN 1614/2:86	UNE 36093:91	NF A36-301:92	BS 1449/1:91	ASTM:96	JIS G 3131:96
-	-	Fe P10	-	-	-	HR4	-	-
DD11	1,0332	Fe P11	StW22	AP11	1C	HR3	A 569 HRCQ	SPHC
DD12	1,0398	Fe P12	StW23	AP11	-	HR2	A 621 HRDQ	SPHD
DD13	1,0335	Fe P13	StW24	AP11	3C	HR1	A 622 HRDQSK	SPHE
DD14	1,0389	-	-	-	-	-	-	-

Examples of fitting on metal decking

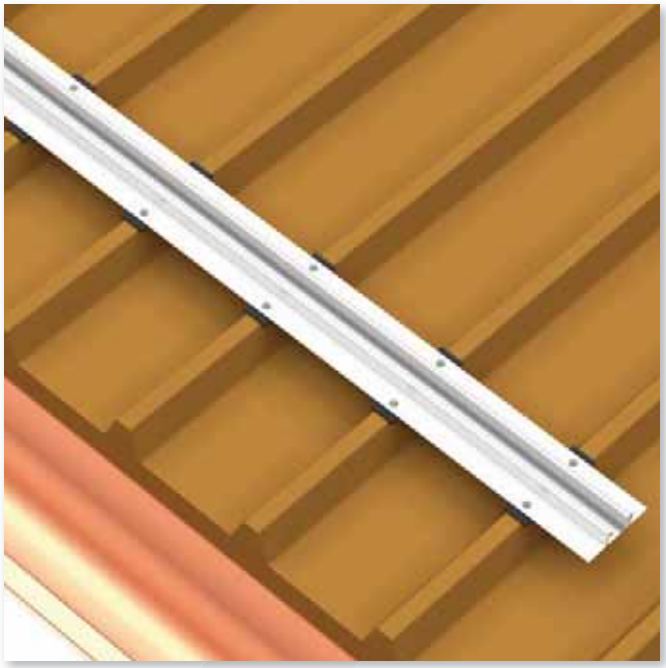


Application of the vertical module with bracket FVT96XX (gasket FVT1530) and Alu section FVT1001.

Application with horizontal module, bracket FVT95XX with gasket FVT1530 and FVT1000 profile.

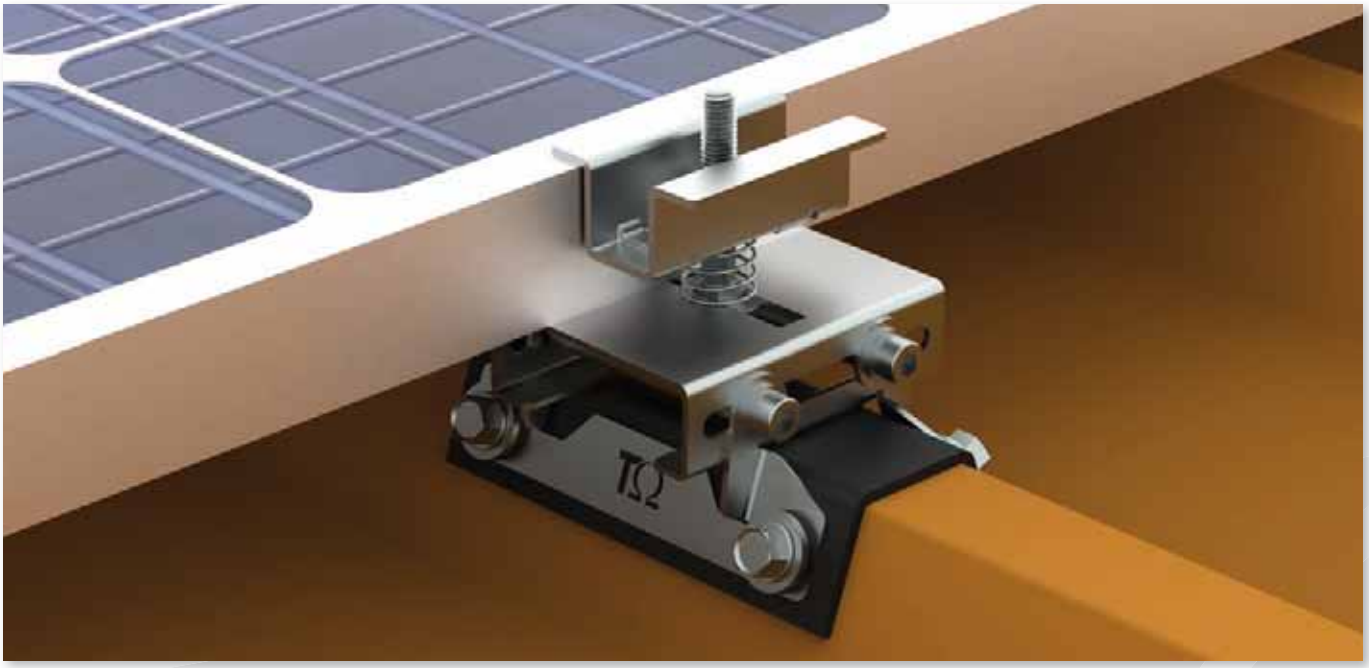


Application of the vertical module with Alu section FVT1002 fixed with self-drilling and self-threading screws (Butyl gasket FVT1550). The self-agglomerating gasket tends kneading the screw thread and increasing the waterproofing.



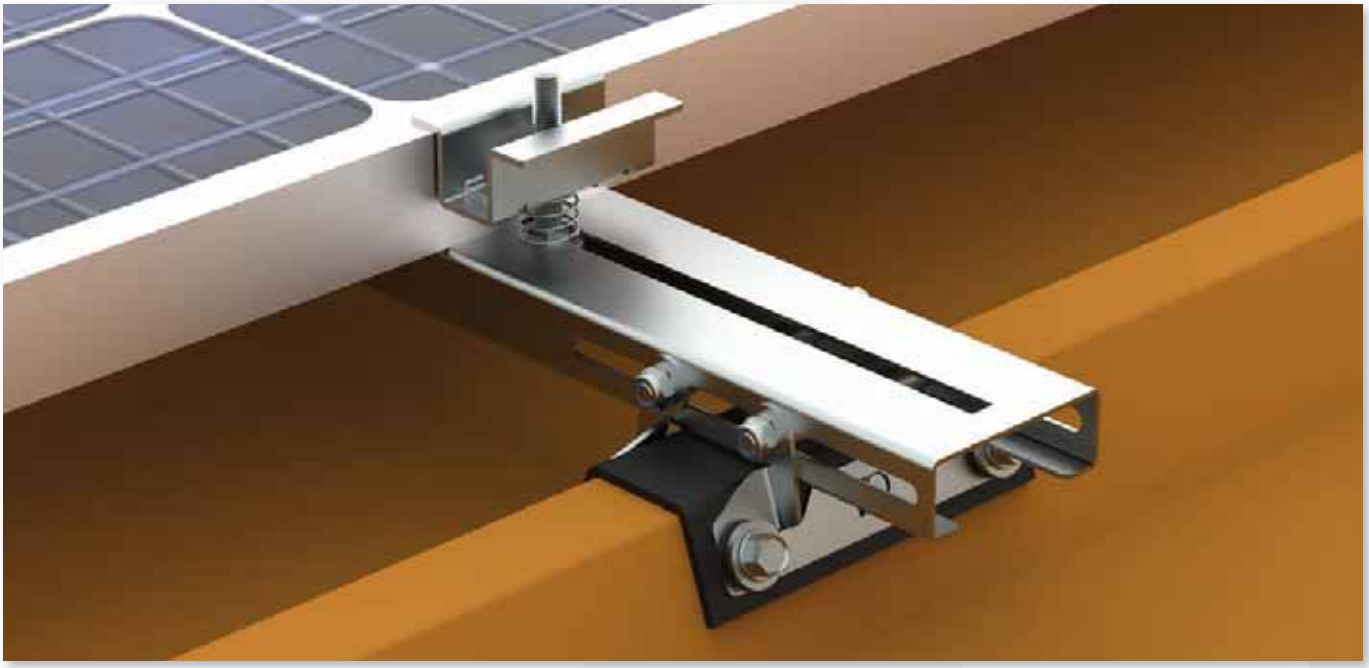
The FVT1002 section can be fixed also by means of watertight rivets made of ALUMINIUM FVT1470. After a start with a double rivet, we suggest the alternate sequence (Butyl gasket FVT1550 suggested).

Universal omega kit for metal decking



FVT5000 is a universal system to horizontally fix photovoltaic modules on metal decking with different sections and tilting.
This new solution doesn't involve the use of the section. It's sold in pre-assembled kit and with the help of the Butyl gasket FVT1552, it makes the installation rapid and safe.

Patent pending

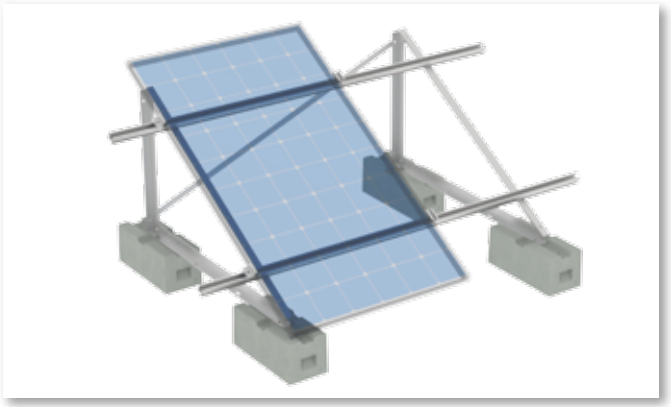


FVT5005 and FVT5010 are universal systems to vertically fix photovoltaic modules on metal decking with different sections and tilting and with different pitches between a sheet and the other. Also these new solutions don't involve the use of the section.
They are sold in pre-assembled kit and with the help of the Butyl gasket FVT1552, they makes the installation rapid and safe.

Patent pending

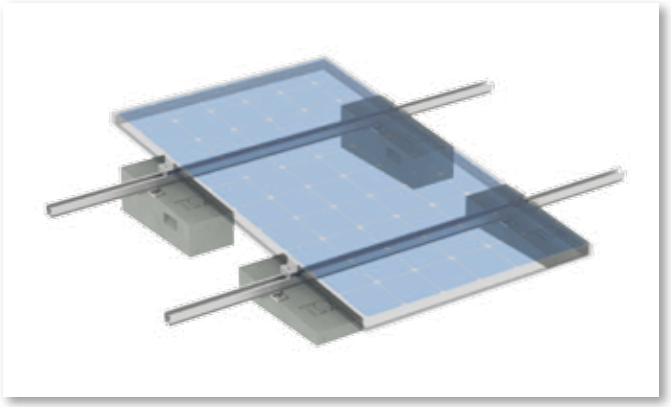
Application for horizontal modules

Typical installation with concrete ballasts FVT1457, triangles FVT1512 adjusted at 30° and the corrugated section Ω Alu FVT1001.



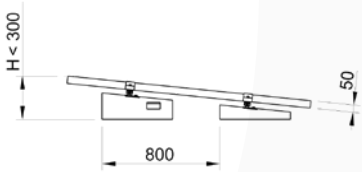
Application for vertical modules

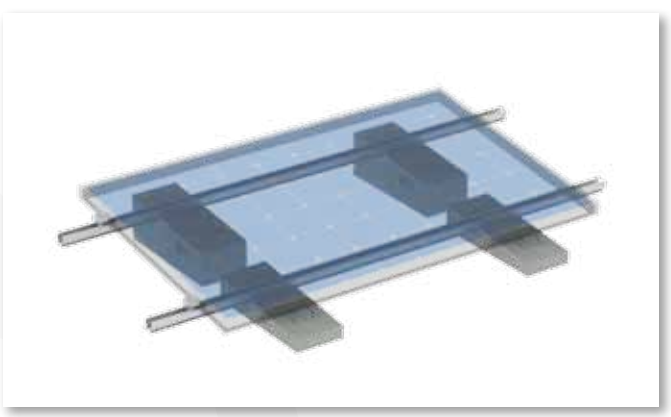
Typical installation with concrete ballasts FVT1457, triangles FVT1511 adjusted at 30° and the corrugated section Ω Alu FVT1001.



Application for vertical modules

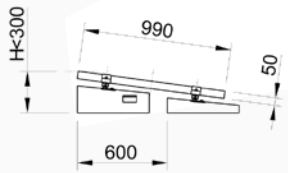
Typically with a center distance of 800 mm with concrete tilted ballasts FVT1458 – FVT1459 and the corrugated section Ω Alu FVT1001. This system ensures a maximum projection of 30 cm (see page 100).



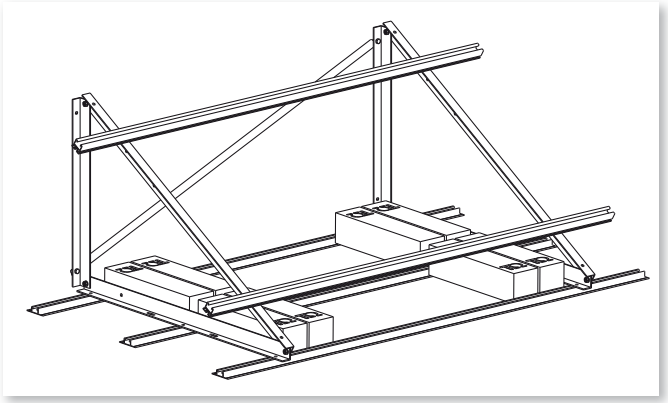


Application for horizontal modules

Typically with a center distance of 600 mm with concrete tilted ballasts FVT1458 – FVT1459, triangles FVT1511 adjusted at 30° on the corrugated section Ω Alu FVT1001. This system ensures a maximum projection of 30 cm. (see page 100)

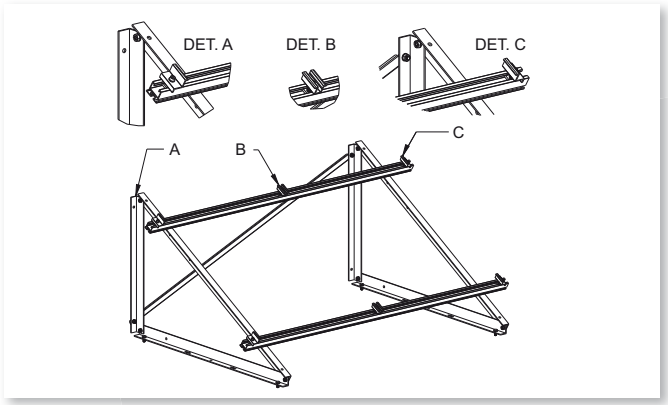


Examples of fixing on flat roofs



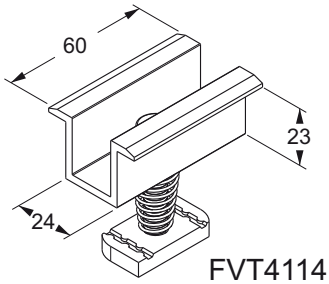
Application for vertical modules

Typically with rail FVT1002 ballasted with FVT1465, triangles FVT1511 adjusted at 30° and corrugated section Ω Alu FVT1001.

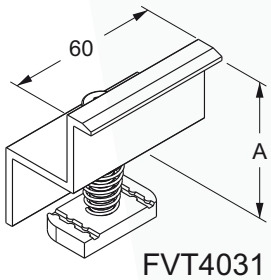


Installation of the jaws

Ω-shaped intermediate and Z lateral jaws installation on ALUMINIUM section or Hot-dip galvanized steel. The assembly can be carried out with TCEI screw with washer and rectangular nut with spring or by using the pre-assembled kits.

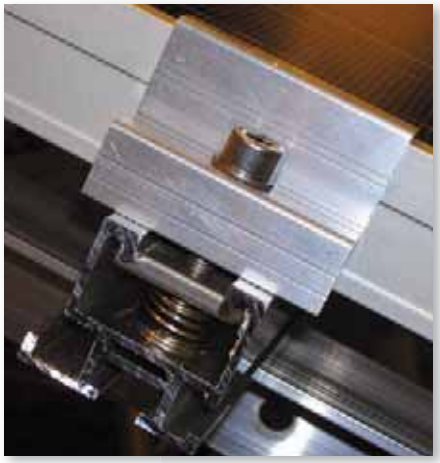


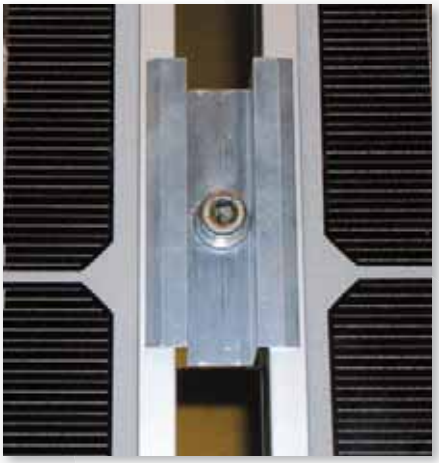
FVT4114

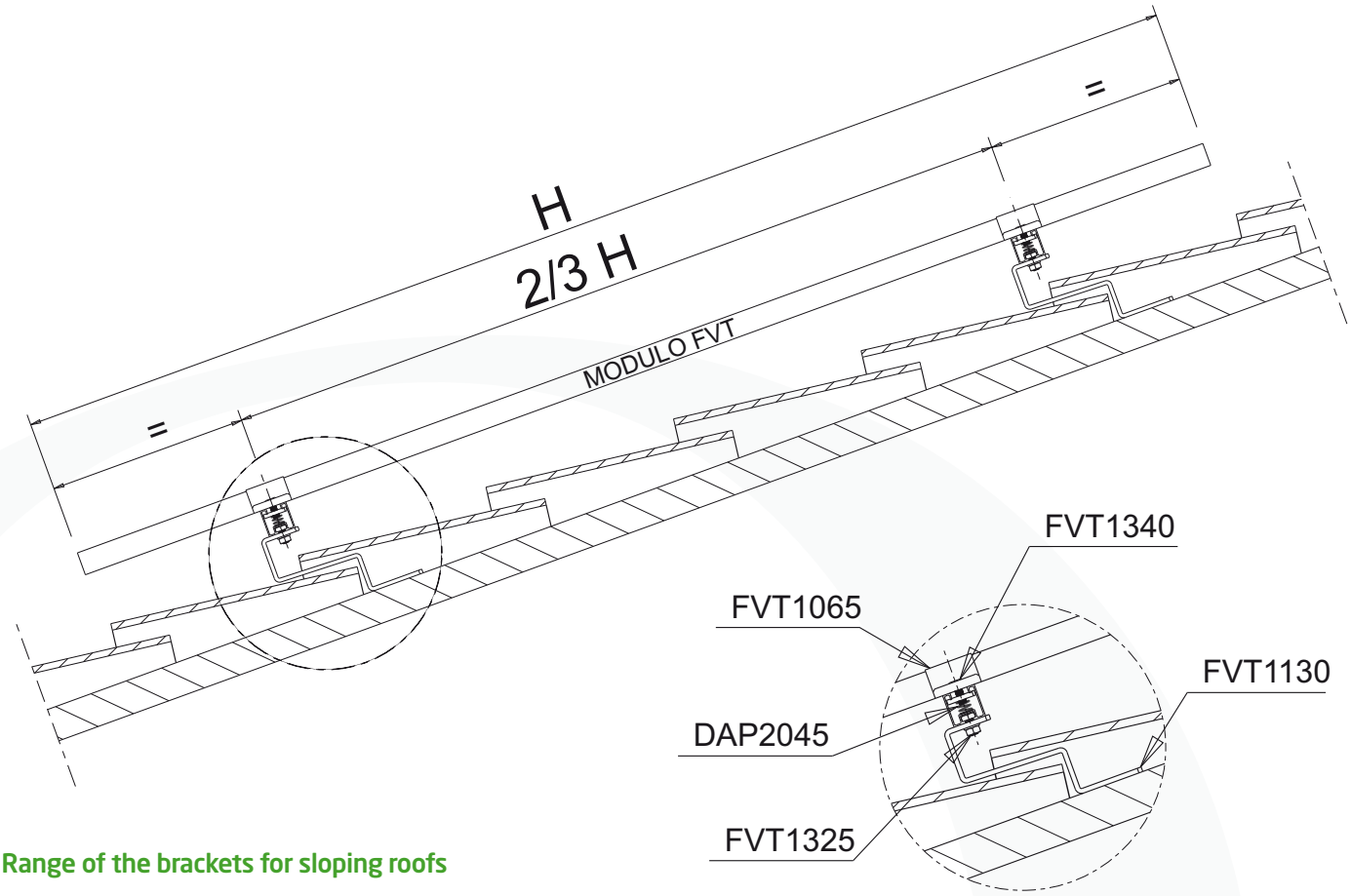


FVT4031

NOTE: All applications that require the use of ballast must be sized in accordance with local regulations.

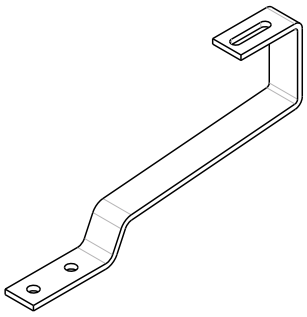




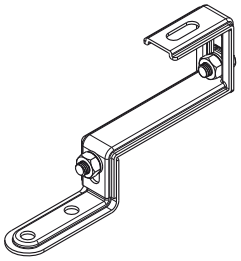


Range of the brackets for sloping roofs

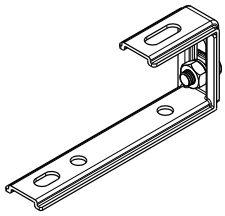
To be fixed on concrete



FVT1118

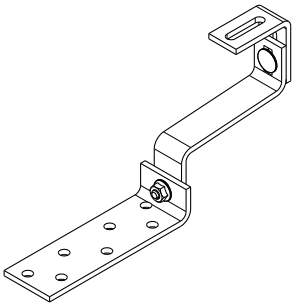


FVT1246

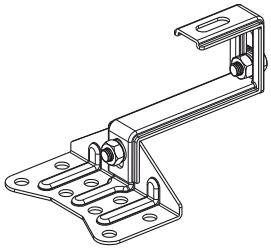


FVT1262

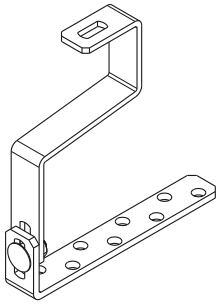
To be fixed on wood



FVT1252



FVT1256



FVT1267

Pictures of installations

Sloping roof- asbestos recovery. Application with mill screws for wood FVT1315.

Metal decking roof. Application with brackets as per drawing FVT95XX.

Flat industrial roof with gravel. Application with ballast tanks FVT1455 and triangles at 30° FVT1511.

Sloping roof with tiles. Application with stainless steel adjustable bracket FVT1256.

Industrial sheath arched roof. Direct application of the hot galvanized PRF with Butyl gasket.

Flat industrial roof with sheath. Application with ballast tanks FVT1455 and triangles at 30° FVT1511.

Roof with ballast application.

Long triangle with ballast.

Metal decking roof with FVT5000.

Flat ballast application.

Special triangle application.

Sloping roofing structure.

Pictures of installations

Triangle triple horizontal ballasted.

Triangle at 30° with ballast.

Flat ballast with vertical panels.

Metal decking roof with FVT5000.

Triangle double horizontal at 30° ballasted.

Triangle single vertical at 30° with ballast tanks.

Pictures of installations

Triangle single vertical at 30° ballasted.

Horizontal panel with Flat ballast.

Triangle single vertical at 30° with ballast tanks.

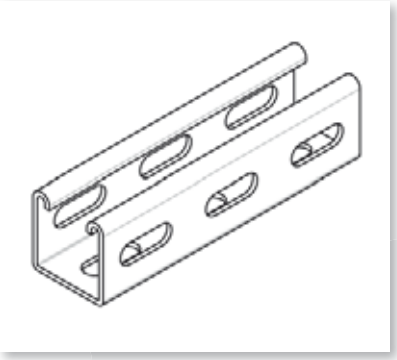
Triangle Double horizontal at 30° and ballast.

Metal decking roof with FVT5120.

Flat ballast with horizontal panels.

Hot-dip galvanized steel profiles

Material: Hot-dip galvanized FeP02 Steel UNI EN 10111-2008		
Specific weight	78,5	KN/m³
Longitudinal elasticity module	210000	N/mm²
Tangential elasticity module	79000	N/mm²
Linear thermal dilatation coefficient	$1,2*10^{-5}$	1/°C
Resistance to the last limit fy	-	N/mm²
Resistance to the yield strength limit fy	430	N/mm²
Resistance to the yield limit $f_{0,2}$	190	N/mm²



41x41 2.5 mm thickness - Slots on 3 sides			
Mechanical features			
Section area	A	249,44	mm²
Linear meter weight	pp	1,96	daN/m
Moment of inertia X	Jx	62498,93	mm⁴
Moment of inertia Y	Jy	70043,67	mm⁴
Resistant moment X	Wx	2892,37	mm³
Resistant moment Y	Wy	3241,53	mm³
Inertia ray X	ix	15,83	mm
Inertia ray Y	iy	16,76	mm

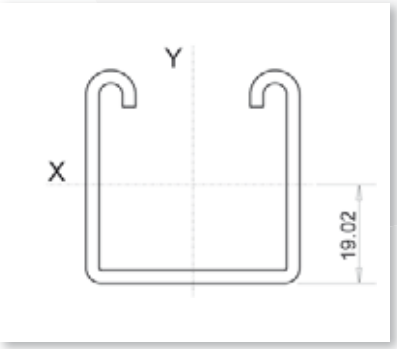
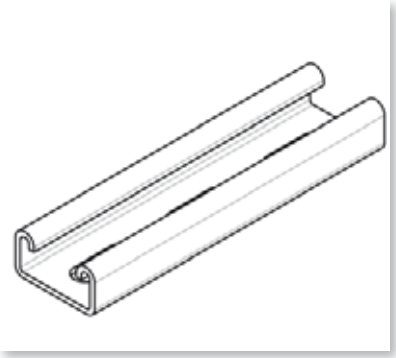


Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	1758,56	439,64
750	781,58	293,09
1000	403,19	219,82
1250	206,43	161,38
1500	119,46	112,00
1750	75,23	82,28
2000	50,40	63,00



41x21 2.5 mm thickness - Slotted			
Mechanical features			
Section area	A	204,44	mm²
Linear meter weight	pp	1,60	daN/m
Moment of inertia X	Jx	11295,41	mm⁴
Moment of inertia Y	Jy	53344,92	mm⁴
Resistant moment X	Wx	1000,99	mm³
Resistant moment Y	Wy	2602,19	mm³
Inertia ray X	ix	7,43	mm
Inertia ray Y	iy	16,15	mm

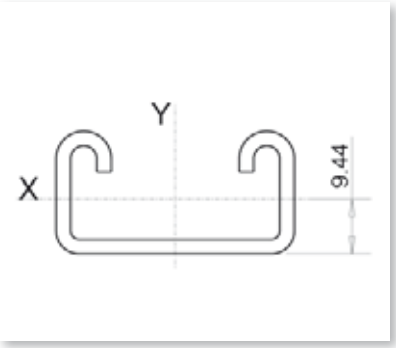
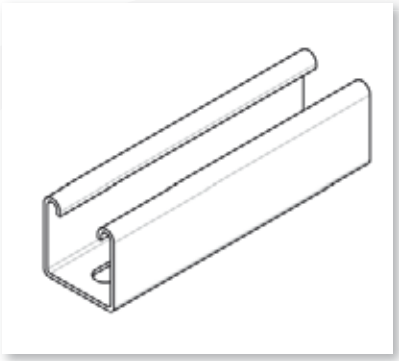


Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	582,95	152,15
750	172,73	80,97
1000	72,87	45,54
1250	37,31	29,15
1500	21,59	20,24
1750	13,60	14,87
2000	9,11	11,39

Stainless steel profiles

Material: Stainless Steel AISI 304 n. 1.4301 EN 10088-3 2005		
Specific weight	79,1	KN/m^3
Longitudinal elasticity module	196000	N/mm^2
Tangential elasticity module	86000	N/mm^2
Linear thermal dilatation coefficient	1,65*10^{-5}	1/°C
Resistance to the last limit fy	500	N/mm^2
Resistance to the yield strength limit fy	430	N/mm^2
Resistance to the yield limit $f_{0,2}$	190	N/mm^2



41x21 2 mm thickness - Slotted			
Mechanical features			
Section area	A	250,23	mm^2
Linear meter weight	pp	1,98	daN/m
Moment of inertia X	Jx	52501,29	mm^4
Moment of inertia Y	Jy	75547,03	mm^4
Resistant moment X	Wx	2414,95	mm^3
Resistant moment Y	Wy	3685,22	mm^3
Inertia ray X	ix	14.48	mm
Inertia ray Y	iy	17,38	mm

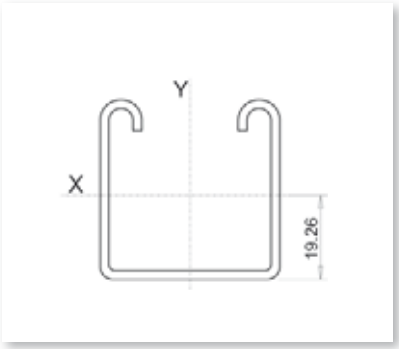
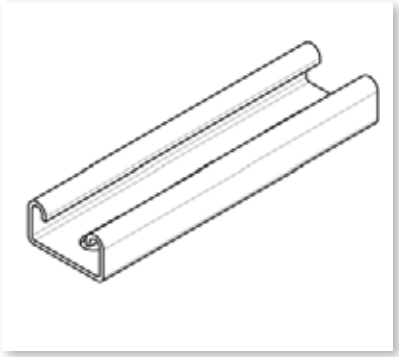


Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	1468,29	367,07
750	652,57	244,72
1000	316,12	183,54
1250	161,85	126,45
1500	93,66	87,81
1750	58,98	64,51
2000	39,51	49,39



41x41 2 mm thickness - Slotted			
Mechanical features			
Section area	A	170,23	mm^2
Linear meter weight	pp	1,35	daN/m
Moment of inertia X	Jx	9417,69	mm^4
Moment of inertia Y	Jy	45100,36	mm^4
Resistant moment X	Wx	810,52	mm^3
Resistant moment Y	Wy	2200,02	mm^3
Inertia ray X	ix	7,44	mm
Inertia ray Y	iy	16,28	mm

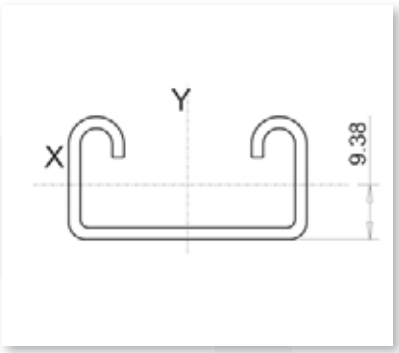
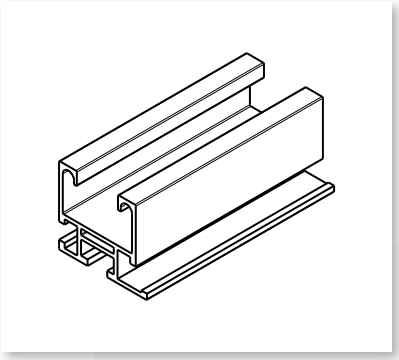


Table of the allowable loads (with Fmax < L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	453,64	123,20
750	134,41	63,01
1000	56,71	35,44
1250	29,03	22,68
1500	16,80	15,75
1750	10,58	11,57
2000	7,09	8,86

Aluminium profiles

Material: Aluminium EN AW6060 Quenching T6		
Specific weight	27	KN/m^3
Longitudinal elasticity module	69000	N/mm^2
Tangential elasticity module	26000	N/mm^2
Linear thermal dilatation coefficient	2,3*10^{-5}	1/°C
Resistance to the last limit fy	190	N/mm^2
Resistance to the yield strength limit fy	-	N/mm^2
Resistance to the yield limit $f_{0,2}$	150	N/mm^2



Corrugated profile FVT1001			
Mechanical features			
Section area	A	424,5	mm^2
Linear meter weight	pp	1,15	daN/m
Moment of inertia X	Jx	71327	mm^4
Moment of inertia Y	Jy	92587	mm^4
Resistant moment X	Wx	3017	mm^3
Resistant moment Y	Wy	4394	mm^3
Inertia ray X	ix	13,0	mm
Inertia ray Y	iy	14,8	mm

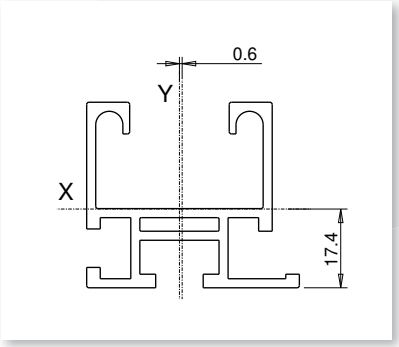
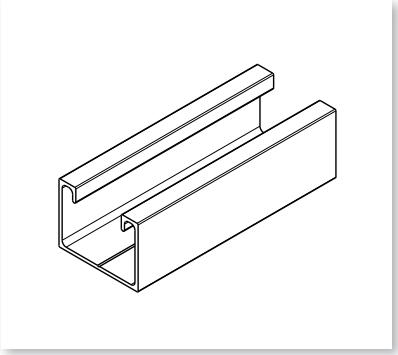


Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	1210	362
750	358	168
1000	151	94
1250	77	60
1500	45	42
1750	28	31
2000	19	24



Lowered profile FVT1004			
Mechanical features			
Section area	A	198,27	mm^2
Linear meter weight	pp	0,54	daN/m
Moment of inertia X	Jx	25762,76	mm^4
Moment of inertia Y	Jy	50935,04	mm^4
Resistant moment X	Wx	1551,55	mm^3
Resistant moment Y	Wy	2546,75	mm^3
Inertia ray X	ix	11,40	mm
Inertia ray Y	iy	16,03	mm

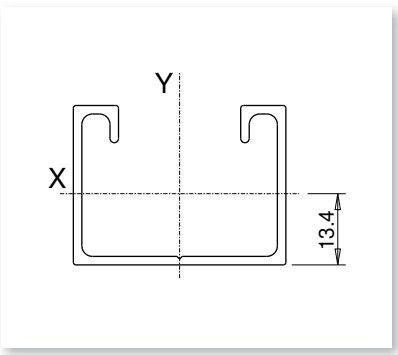
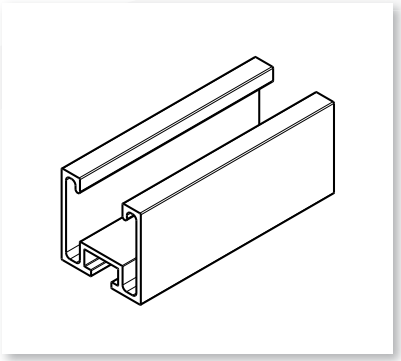


Table of the allowable loads (with Fmax < L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
125	-	744,75
200	-	465,47
250	-	372,37
333	-	279,56
400	-	213,32
450	-	168,55
500	-	136,52

Aluminium profiles

Material: Aluminium EN AW6060 Quenching T6		
Specific weight	27	KN/m^3
Longitudinal elasticity module	69000	N/mm^2
Tangential elasticity module	26000	N/mm^2
Linear thermal dilatation coefficient	2,3*10^{-5}	1/°C
Resistance to the last limit fy	190	N/mm^2
Resistance to the yield strength limit fy	-	N/mm^2
Resistance to the yield limit $f_{0,2}$	150	N/mm^2



Simple profile Thk. 2,3 mm FVT1000			
Mechanical features			
Section area	A	400,3	mm^2
Linear meter weight	pp	1,08	daN/m
Moment of inertia X	Jx	77497	mm^4
Moment of inertia Y	Jy	97445	mm^4
Resistant moment X	Wx	3288	mm^3
Resistant moment Y	Wy	4753	mm^3
Inertia ray X	ix	13,9	mm
Inertia ray Y	iy	15,6	mm

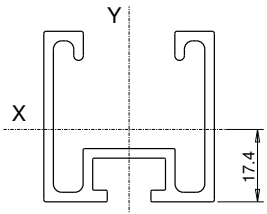
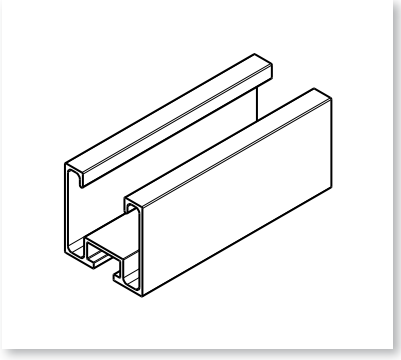


Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	1314	395
750	389	183
1000	164	103
1250	84	66
1500	49	46
1750	31	34
2000	21	26



Simple profile Thk. 1,6mm FVT1010			
Mechanical features			
Section area	A	293,4	mm^2
Linear meter weight	pp	0,79	daN/m
Moment of inertia X	Jx	60429	mm^4
Moment of inertia Y	Jy	71873	mm^4
Resistant moment X	Wx	2542	mm^3
Resistant moment Y	Wy	3506	mm^3
Inertia ray X	ix	14,4	mm
Inertia ray Y	iy	15,7	mm

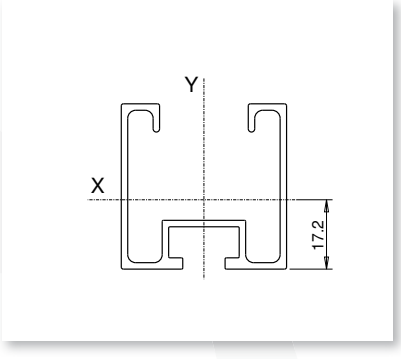
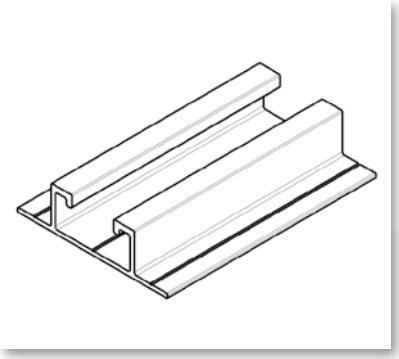


Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
500	1025	305
750	304	142
1000	128	80
1250	66	51
1500	38	36
1750	24	26
2000	16	20

Aluminium profiles

Material: Aluminium EN AW6060 Quenching T6		
Specific weight	27	KN/m^3
Longitudinal elasticity module	69000	N/mm^2
Tangential elasticity module	26000	N/mm^2
Linear thermal dilatation coefficient	2,3*10^{-5}	1/°C
Resistance to the last limit fy	190	N/mm^2
Resistance to the yield strength limit fy	-	N/mm^2
Resistance to the yield limit $f_{0,2}$	150	N/mm^2



Profile with large base FVT1003			
Mechanical features			
Section area	A	274,48	mm^2
Linear meter weight	pp	0,74	daN/m
Moment of inertia X	Jx	15416,42	mm^4
Moment of inertia Y	Jy	98067,31	mm^4
Resistant moment X	Wx	1207,90	mm^3
Resistant moment Y	Wy	2739,09	mm^3
Inertia ray X	ix	7,49	mm
Inertia ray Y	iy	18,95	mm

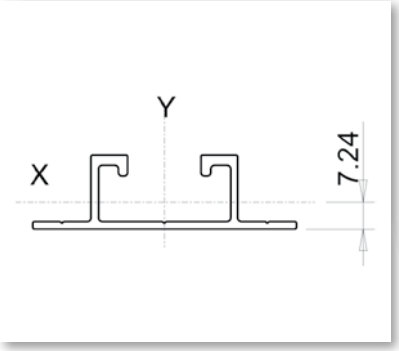
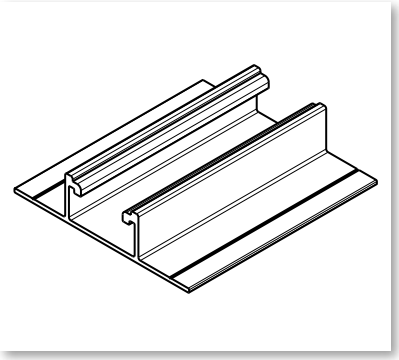


Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
125	-	579,79
200	-	362,37
250	-	289,90
333	-	184,18
400	-	127,65
450	-	100,86
500	-	81,69



Profile with large base FVT1002			
Mechanical features			
Section area	A	326,37	mm^2
Linear meter weight	pp	0,88	daN/m
Moment of inertia X	Jx	19949,62	mm^4
Moment of inertia Y	Jy	173419,40	mm^4
Resistant moment X	Wx	1285,22	mm^3
Resistant moment Y	Wy	3729,45	mm^3
Inertia ray X	ix	7,82	mm
Inertia ray Y	iy	23,05	mm

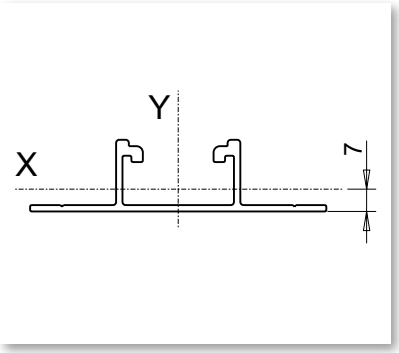
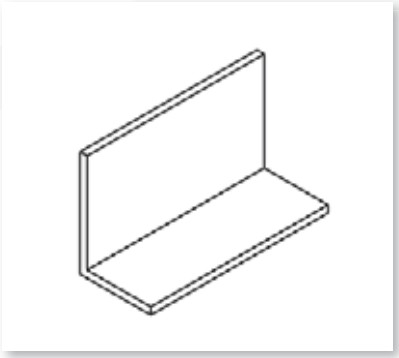


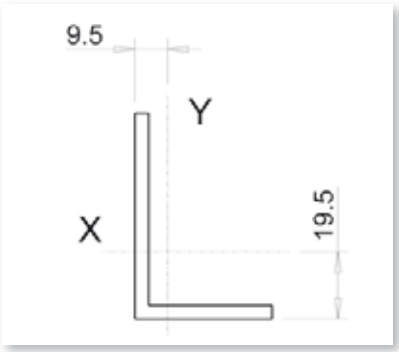
Table of the allowable loads (with Fmax <L/250)		
Beam length L (mm)	Uniform load distribution (daN/m)	Load at the centerline (daN)
125	-	616,91
200	-	385,57
250	-	308,45
333	-	231,57
400	-	165,18
450	-	130,51
500	-	105,72

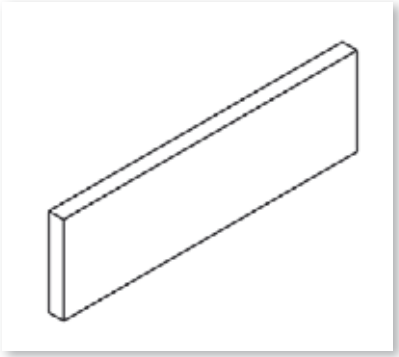
Aluminium profiles

Material: Aluminium EN AW6060 Quenching T6		
Specific weight	27	KN/m^3
Longitudinal elasticity module	69000	N/mm^2
Tangential elasticity module	26000	N/mm^2
Linear thermal dilatation coefficient	2,3*10^{-5}	1/°C
Resistance to the last limit fy	190	N/mm^2
Resistance to the yield strength limit fy	-	N/mm^2
Resistance to the yield limit $f_{0,2}$	150	N/mm^2

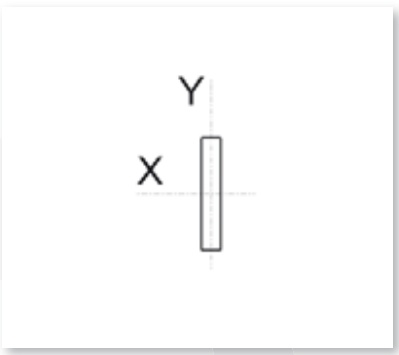


Angular profile 60x40x4 FVT1011			
Mechanical features			
Section area	A	384	mm^2
Linear meter weight	pp	1,04	daN/m
Moment of inertia X	Jx	142752	mm^4
Moment of inertia Y	Jy	51872	mm^4
Resistant moment X	Wx	3524,74	mm^3
Resistant moment Y	Wy	1280,79	mm^3
Inertia ray X	ix	19,28	mm
Inertia ray Y	iy	11,62	mm





Flat profile 30x5 - Mechanical features			
Section area	A	150	mm^2
Linear meter weight	pp	0,41	daN/m
Moment of inertia X	Jx	11250	mm^4
Moment of inertia Y	Jy	312,50	mm^4
Resistant moment X	Wx	750	mm^3
Resistant moment Y	Wy	20,83	mm^3
Inertia ray X	ix	8,66	mm
Inertia ray Y	iy	1,44	mm



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STRUTTURA A TRIANGOLO SU COPERTURA PIANA A SOSTEGNO DI PANNELLI FOTOVOLTAICI

SOCIETA' "TEKNOMEGA" s.r.l. – BUCCINASCO (MI)

Il sottoscritto Dott. Ing. TINO NATALE VIGLIO, con studio in Magenta, via Sanchioli, 10, telefono 02/9792263, iscritto con il n. 7876 all'Ordine degli Ingegneri della Provincia di Milano

D I C H I A R A

che la struttura è stata calcolata in base alle "N.T.C. 2008" di cui al D.M. Infrastrutture Trasporti 14 gennaio 2008 ed è valevole in zone con carico di neve ≤130 daN/m^2, pressione del vento ≤ 125 daN/m^2 (considerando un'area geografica con distanza dal mare superiore ai 30 Km, altitudine inferiore ai 500 m s.l.m. ed in aree urbane) e in zona sismica 2 (comunque ininfluente per la trascurabile massa dell'impianto fotovoltaico nei confronti della struttura sottostante del capannone).

I telai a triangolo (realizzati in alluminio L60x40x4, codice FVT1511) sono disposti ad interasse di 150 cm e per il sostegno dei pannelli fotovoltaici saranno utilizzati profilati estrusi in alluminio avente spessore 1.6 mm (codice FVT1010).

Il fissaggio sulla copertura piana è realizzato mediante una zavorra "a vasca" (codice FVT1455) riempita di calcestruzzo e del peso complessivo di circa 120 daN.

Per quanto riguarda la resistenza della struttura sottostante sono state date ampie garanzie circa la possibilità di assorbire il sovraccarico indotto dall'impianto fotovoltaico di cui sopra.

Pertanto, stante le precedenti condizioni di carico, il sottoscritto:

C E R T I F I C A

che la struttura è idonea ad assorbire i carichi massimi di cui sopra in totale sicurezza ed in rispetto delle normative strutturali vigenti.

IL PROGETTISTA DELLE STRUTTURE
Dott. Ing. Tino Natale Viglio

Technical notes for Hot-dip galvanization

Hot-dip galvanizing is one of the best methods for the protection of steel components. With the hot-dip galvanizing the results is a protection barrier and also a galvanic protection. Corrosion in time of the protective zinc layer and mainly influenced by the duration of exposure to moisture and surface contamination. Products made with hot-dip galvanizing as surface finishing, are made in compliance with technical requirements and following international standards:
UNI EN ISO 1461: hot-dip galvanizing - specifications and test methods.
UNI EN ISO 14713: hot-dip galvanizing - guidelines.

The following tables, taken from the UNI EN ISO 1461 standards represent the minimum thickness that can be obtained and the typical duration for steel components protected from the treatment of hot-dip galvanizing.

Part thickness	Average thickness of the coating (minimum) [µm]
Steel ≥ 6 mm	85
Steel ≥ 3 mm up to < 6 mm	70
Steel ≥ 1,5 mm up to < 3 mm	55
Steel < 1,5 mm	45

Code	Corrosion class	Loss of zinc thick [µm/year]
C1	Dry indoor environment	≤ 0,1
C2	Rural environment	from 0,1 to 0,7
C3	Urban environment	from 0,7 to 2
C4	Industrial environment	from 2 to 4
C5	Industrial area with high humidity - Coast or offshore area	from 4 to 8

List of alphanumeric partnumbers

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BFA1015	BFA3-M8	61
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BFA1025	BFA3-M10	61
BFA1030	BFA1-M12	61
BFA1035	BFA3-M12	61
BFA1040	GBF-M6-30	61
BFA1045	GBF-M8-30	61
BFA1050	GBF-M10-30	61
BFA1090	FBF-VAC-M	62
BFA1100	FBF-VAC-F	62
BUL		
BUL1000	BUL-VTE-M10-25	60
BUL1005	BUL-VTE-M10-30	60
BUL1008	BUL-DADO-M8	60
BUL1010	BUL-R-10,5	60
BUL1015	BUL-RG-10,5	60
BUL1020	BUL-TP21	60
BUL1025	BUL-TP41	60
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CLP1015	CLP-H4	12
CLP1035	CLP-H2-I	12
CLP1040	CLP-H3-I	12
CLP1045	CLP-H2-IX	12
CLP1050	CLP-H3-IX	12
CLP1055	CLP-H1-CT	13
CLP1060	CLP-H2-CT	13
CLP1065	CLP-H3-CT	13
CLP1070	CLP-H4-CT	13
CLP1090	CLP-BF1-M6	14
CLP1095	CLP-BF2-M6	14
CLP1100	CLP-BF3-M6	14
CLP1105	CLP-BF4-M6	14
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CLP1125	CLP-BF2-M8	14
CLP1130	CLP-BF3-M8	14
CLP1135	CLP-BF4-M8	14
CLP1150	CLP-BF1-M10	14
CLP1155	CLP-BF2-M10	14
CLP1160	CLP-BF3-M10	14
CLP1165	CLP-BF4-M10	14
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CLP1175	CLP-ME3	17
CLP1180	CLP-ME4	17
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CLP1205	CLP-ME3-V	17
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CLP1220	CLP-1C1011	16
CLP1225	CLP-1C1214	16
CLP1230	CLP-1C1518	16
CLP1235	CLP-1C1924	16
CLP1240	CLP-1C2530	16
CLP1245	CLP-2C89	16
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CLP1255	CLP-2C1214	16
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CLP1265	CLP-2C1924	16
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Note

NOTE

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