

LINEA**sati***speed***SISTEMA DI STRUTTURE componibili**
METAL FRAMINGS SYSTEM**Linea Sati Speed**
Sistema di Strutture Componibili
Metal framings system

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ISTRUZIONI TECNICHE / TECHNICAL INSTRUCTIONS

sati^{speed} è un sistema modulare pratico, veloce ed economico per comporre ogni tipo di struttura portante, robusta, regolabile. Profilati, piastre di raccordo e ancoraggio, attacchi speciali e altri accessori possono essere utilizzati in qualunque situazione; inoltre un seghetto e una chiave inglese sono i soli strumenti necessari per il montaggio di qualsiasi struttura di base.

Il sistema **sati^{speed}** è compatibile con gli accessori dei sistemi di sospensione in acciaio zincato a caldo e Sendzimir per le canalizzazioni SATI S5 - S2 - S3, ed è particolarmente indicato per la posa di passerelle e canali portacavi, cavidotti, tubazioni per fluidi o gas, condotte d'aria ecc., nell'impiantistica civile, terziaria e industriale.

MATERIALI

- Profilati **PRP**: sono in acciaio al carbonio Fe 360 zincato a caldo dopo lavorazione (secondo norme DIN 50976), e realizzati con profilatura di rinforzo; lunghezza 3 m; spessore 2,5 mm; asole 11 x 17 mm, con interasse 35 mm.
- Profilati **PRL - PRM**: sono in acciaio Fe 360 zincato Sendzimir, e realizzati con profilatura di rinforzo; sono di tipo con asole e senza asole; lunghezza 3 m; spessore 2 mm; asole 11 x 20 mm, con interasse 50 mm.
- Piastre di raccordo **PR**: sono in acciaio al carbonio Fe 360 zincato a caldo dopo lavorazione (secondo norme EN ISO 1461); **larghezza 40 mm; spessore 6 mm; fori Ø 13,5 mm; interasse tra i fori 50 mm; distanza da centro foro a fine piastra 20 mm.**
- Viterie:
 - Piastrine **PAP** (per profilati **PRP**) e **PMP** (per profilati **PRM**), con molla di contrasto "a perdere", in acciaio zincato elettroliticamente; filettatura M10 (a richiesta M12) adatta anche per viti zincate a caldo, purché da noi fornite.
 - Viti testa ad ancora, **VTA** (per profilati **PRL** e **PRM**) zincate elettroliticamente; filettatura M10 x 30.
 - Viti e rondelle **BZF** zincate a caldo, **BZE** zincate elettroliticamente; filettatura M10 (a richiesta M12).

CRITERI COSTRUTTIVI

- Per la costruzione di strutture portanti si assemblano i profilati **PRP - PRL - PRM** tramite le piastre di raccordo **PR**, utilizzando le piastrine **PAP - PMP**, le viti testa ad ancora **VTA**, le viti e le rondelle **BZF - BZE** M10 x 30. Le piastrine, le viti e le rondelle devono essere ordinate a parte.
- La presenza di asole nei profilati **PRP - PRL - PRM**, accresce il numero di composizioni possibili. Si possono utilizzare oltre alle piastre di raccordo **PR**, anche tutti gli accessori del sistema di sospensione zincato a caldo quali le mensole **MP**, e i supporti **SSP - SDP - SRP - SCP - DPP**, oltre a quelli del sistema zincato Sendzimir, in particolare **ML - PSM - SSM**.

sati^{speed} is a practical, fast and economic modular system used to make up any type of load-bearing, robust and adjustable structure. Channels, fittings and special attachments can be used in any situation; in addition, a hacksaw and a wrench are the only instruments needed to assemble any type of basic structure.

The **sati^{speed}** system is compatible with the fittings of hot-deep and Sendzimir galvanized steel systems for SATI S5 - S2 - S3 cable runways, and it is particularly appropriate for laying cable trays, trunkings, ductings, fluid or gas pipes, air ducts, etc. in civil, service and industrial system engineering.

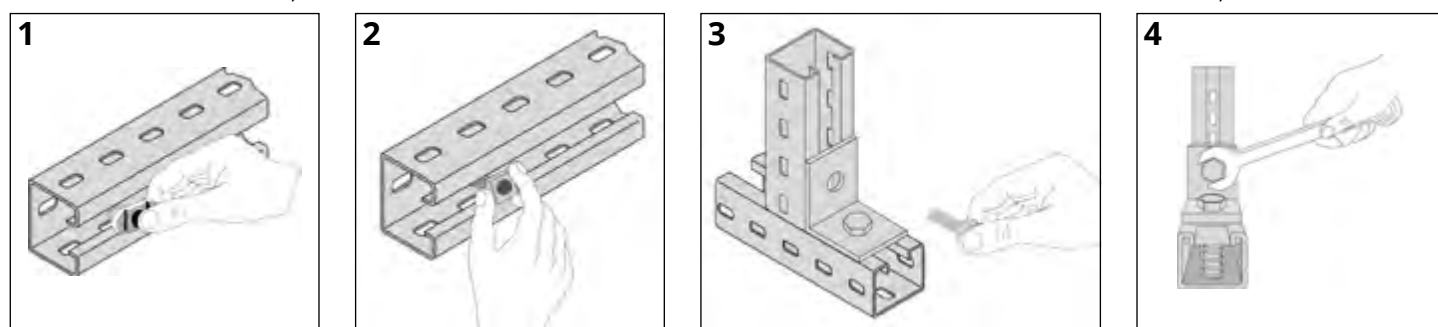
MATERIALS

- **PRP** channels: made in Fe 360 hot-deep galvanized carbon steel (according to DIN 50976 standards) and using reinforcement profiling; length 3 m; thickness 2.5 mm; slots 11 x 20 mm, with 50 mm centre to centre.
- **PRL - PRM** channels: made in Fe 360 Sendzimir galvanized steel Fe 360 and using reinforcement profiling; with or without slots; length 3 m; thickness 2 mm; slots 11 x 20 mm, with 50 mm centre to centre.
- **PR** fitting: made in Fe 360 hot-deep galvanized carbon steel (according to EN ISO 1461 standards); **width 40 mm; thickness 6 mm; holes Ø 13.5 mm; interaxis between holes 50 mm; distance from centre to end plate hole 20 mm.**
- Bolts and screws:
 - **PAP** (for **PRP** channel) and **PMP** (for **PRM** channel), spring nuts with disposable contrast spring in electrolytic galvanized steel: M10 thread (M12 on request) also suitable for hot-deep galvanized steel, provided that we supply them.
 - **VTA** anchor head screws (for **PRL** and **PRM** channels) in electroplated zinc steel; thread M10 x 30.
 - **BZF** hot-deep galvanized screws, and washers, **BZE** electrolytic galvanized, M10 thread (M12 on request).

CONSTRUCTION CRITERIAS

- For the construction of load-bearing structures, assembly **PRP - PRL - PRM** channels using **PR** fittings, **PAP - PMP** spring nuts, **VTA** anchor head screws and **BZF - BZE** M10 x 30 screws. Spring nuts, screws and washers and screws must be ordered separately.
- The slots in the **PRP - PRL - PRM** channels, increases the number of possible compositions. In addition to **PR** fittings, enables all the fittings of the hot-deep galvanized support system to be used, such as **MP** brackets, **SSP - SDP - SRP - SCP - DPP** supports, as well as those for galvanized Sendzimir system, in particular **ML - PSM - SSM**.

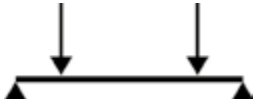
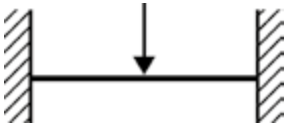
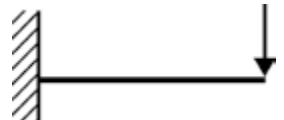
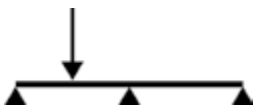
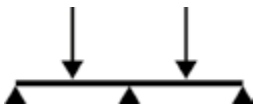
COME MONTARE sati^{speed}



MAKING sati^{speed} CONNECTIONS

COEFFICIENTI DI CONVERSIONE PER TRAVI CON DIVERSE CONDIZIONI DI CARICO STATICO
CONVERSION FACTOR FOR BEAMS WITH VARIOUS STATIC LOADING CONDITIONS

Tabella 1

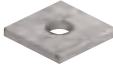
CONDIZIONI DI PORTATA E APPOGGIO <i>LOAD AND SUPPORT CONDITION</i>	SCHEMA <i>FIGURE</i>	COEFFICIENTE DI PORTATA <i>LOAD FACTOR</i>	COEFFICIENTE DI FRECCIA <i>DEFLECTION FACTOR</i>
Trave semplicemente appoggiata Carico uniformemente distribuito <i>Simple beam laid on two supports</i> <i>Uniform load</i>		1,00	1,00
Trave semplicemente appoggiata Due carichi uguali concentrati a 1/4 di L <i>Simple beam laid on two supports</i> <i>Two equal concentrated loads at 1/4 of L</i>		1,00	1,10
Trave incastrata da due lati Carico uniformemente distribuito <i>Beam fixed at both ends</i> <i>Uniform load</i>		1,50	0,30
Trave incastrata da due lati Carico concentrato in mezzzeria <i>Beam fixed at both ends</i> <i>Concentrated load at centre</i>		1,00	0,40
Trave incastrata ad una estremità Carico uniformemente distribuito <i>Cantilever beam</i> <i>Uniform load</i>		0,25	2,40
Trave incastrata ad un estremità Carico concentrato in punta <i>Cantilever beam</i> <i>Concentrated load at end</i>		0,12	3,20
Trave continua, due campate uguali Carico uniformemente distribuito su una campata <i>Continuous beam, two equal spans</i> <i>Uniform load on one span</i>		1,30	0,92
Trave continua, campate uguali Carico uniformemente distribuito <i>Continuous beam, equal spans</i> <i>Uniform load</i>		1,00	0,42
Trave continua, due campate uguali Carico concentrato al centro di una campata <i>Continuous beam, two equal spans</i> <i>Concentrated load at centre of one span</i>		0,62	0,71
Trave continua, campate uguali Carico concentrato al centro delle campate <i>Continuous beam, equal spans</i> <i>Concentrated load at centre of spans</i>		0,67	0,48

GUIDA ALLA SCELTA STRUTTURE COMPONENTI / GUIDE FOR CHOOSING THE METAL FRAMING

Profilo / "U" Section	Profilo PRP "U" Section PRP	Giunto per Profilo PRP Joint for "U" Section PRP	Profilo PRL "U" Section PRL	Giunto per Profilo PRL Joint for "U" Section PRL	Profilo PRM "U" Section PRM	Giunto per Profilo PRM Joint for "U" Section PRM
Lunghezza / Length	3000		3000		3000	
Spessore / Thickness	2,5		2		2	
Dimensioni / Dimensions	50 x 40		41 x 21		41 x 41	
						
Finitura / Finishing	Codice / Code	Codice / Code	Codice / Code	Codice / Code	Codice / Code	Codice / Code
ZS	—	—	2020152	2020153	2020202	2020203
ZF	2520452	2520501	2520152	2520153	2520202	2520203

ZS: Zincato Sendzimir - ZF: Zincato a caldo.

ZS: Sendzimir galvanized steel - ZF: Hot-dip galvanized steel.

PR 101	PR 102	PR 103	PR 104	PR 105	PR 106	PR 107	PR 108
							
ZF	ZF	ZF	ZF	ZF	ZF	ZF	ZF
2610001	2610002	2610003	2610004	2610005	2610006	2610007	2610008

PR 109	PR 110	PR 124	PR 111	PR 112	PR 113	PR 114	PR 125
							
ZF	ZF	ZF	ZF	ZF	ZF	ZF	ZF
2610009	2610010	2610024	2610011	2610012	2610013	2610014	2610025

PR 126	PR 127	PR 128	PR 129	PR 115	PR 116	PR 132	PR 133
							
ZF	ZF	ZF	ZF	ZF	ZF	ZF	ZF
2610026	2610027	2610028	2610029	2610015	2610016	2610032	2610033

PR 134	PR 135	PR 137	PR 138	PR 136	PR 142	PR 139	PR 140
							
ZF	ZF	ZF	ZF	ZF	ZF	ZF	ZF
2610034	2610035	45° 2610037	45° 2610038	2610036	2610042	2610039	2610040
		25° 2610047	65° 2610051				
		30° 2610048	60° 2610052				
		35° 2610049	55° 2610053				

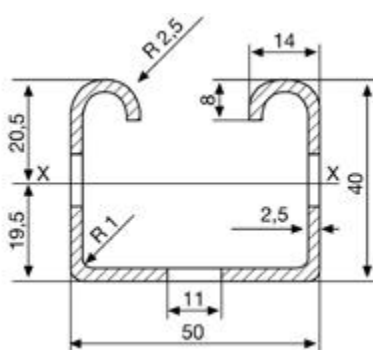
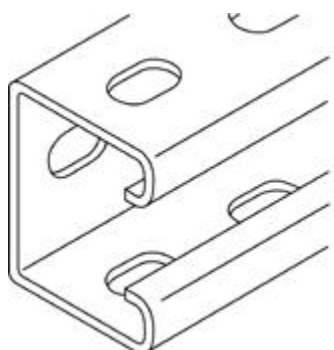
GUIDA ALLA SCELTA STRUTTURE COMPONENTI / GUIDE FOR CHOOSING THE METAL FRAMING

PR 143	PR 144	PR 145	PR 117 - PRP	PR 118 - PRM	PR 121 - PRP	PR 122 - PRM	PR 150
ZF	ZF	ZF	ZF	ZF	ZF	ZF	ZF
2610043	2610044	2610045	2610017	2610018	2610021	2610022	2610050

PR 119	PR 120	Tappo sospensione 50x40 50x40 "U" section end cap	Tappo sospensione 41x21 41x21 "U" section end cap	Tappo sospensione 41x41 41x21 "U" section end cap
ZF	ZF	Codice / Code	Codice / Code	Codice / Code
2610019	2610020	2030023	2030021	2030022

Accessori / Accessories	Staffa Oscillante STO Beam clamp with swivel STO	Morsetto per trave Beam clamp STO	Barra Filettata per Sospensione AS Threaded rod AS	Manicotto di Prolunga MA Rod Coupling AM	
Lunghezza / Length			1000		
Finitura / Finishing	ZE	ZE	ZE IX	ZE IX	ZE IX
M 6	—	2610505	2020301 2420301	2020351 2420351	2020351 2420351
M 8	—	2610504	2020302 2420302	2020352 2420352	2020352 2420352
M 10	2610501	2610508	2020303 2420303	2020353 2420353	2020353 2420353
M 12	—	2610509	2020304 2420304	2020354 2420354	2020354 2420354

ISTRUZIONI TECNICHE / TECHNICAL INSTRUCTIONS



Caratteristiche / Characteristics		
Area / Area	3,0824	cm ²
Peso lineare / Linear weight	2,4196	kg/m
Peso lineare / Linear weight	2,3736	daN/m
J _x	7,9599	cm ⁴
W _x	3,8825	cm ³
r _x	1,6069	cm
J _y	11,8420	cm ⁴
W _y	4,7368	cm ³
r _y	1,9601	cm

Profilato di ancoraggio PRP - asolato / Channel PRP - slotted

Cod. 2520452

Luce	Carico max. concentrato in mezzeria		Freccia	Carico max. uniformemente distribuito		Freccia	Carico max. di punta	
Span	Max. load concentrated in the middle		Deflection	Max. load distributed uniformly		Deflection	Max. column loading	
L mm	P N	P kg	f _p mm	Q N	Q kg	f _q mm	F N	F kg
250	9156	933	0,18	18312	1867	0,23	49910	5088
500	4578	467	0,73	9156	933	0,91	49910	5088
750	3052	311	1,64	6104	622	2,04	49910	5088
1000	2289	233	2,91	4578	467	3,64	49910	5088
1250	1831	187	4,54	3662	373	5,68	49910	5088
1500	1526	156	6,54	3052	311	8,18	46755	4766
1750	1308	133	8,91	2616	267	11,13	34351	3502
2000	1145	117	11,63	2289	233	14,54	26300	2681
2250	1017	104	14,72	2035	207	18,40	20780	2118
2500	916	93	18,18	1831	187	22,72	16832	1716
2750	832	85	21,99	1665	170	27,49	13911	1418
3000	763	78	26,17	1526	156	32,72	11689	1192
3500	654	67	35,62	1308	133	44,53	8588	875
4000	572	58	46,52	1145	117	58,16	6575	670

PORTATE DEL PROFILATO

Le portate ammissibili sono relative alle seguenti condizioni di impiego:

- trave appoggiata alle estremità su semplici appoggi;
- perfetto ritorno elastico;
- sollecitazione ammissibile: 140 N/mm²;
- coefficiente di sicurezza: ≥ 2,5.

I carichi riportati in tabella sono:

- carico "P"; concentrato in mezzeria;
- carico "Q" uniformemente distribuito;
- carico "F" di punta.

Per condizioni di impiego diverse (disposizione del carico e appoggi) i valori di carico e di freccia si ottengono moltiplicando "Q" e "f_q" per i fattori corrispondenti riportati nella tabella di conversione (Tab. 6).

CARICO DI PUNTA

Il carico di punta "F" indicato in tabella è riferito ad un carico assiale baricentrico.

CONDIZIONI FAVOREVOLI DI LAVORO

Qualora le condizioni di installazione consentano di accettare un coefficiente di sicurezza pari a 2 (sollecitazione ammissibile 175 N/mm²) i carichi P, Q e le frecce f riportati in tabella possono essere aumentati del 30%.

LOADS OF THE CHANNEL

The permitted loads are referred to the following working conditions:

- simple beam laid on two supports;
- deflection complete elastic return;
- permitted working stress: 140 N/mm²;
- safety factor: ≥ 2,5.

The loads pointed out in the table are:

- concentrated load in the middle "P";
- uniformly distributed load "Q";
- maximum column loading "F".

In any other working conditions (load disposition and supports), load and deflection are obtained getting the product of "Q" and "f_q" respectively with the correspondent factor in the conversion table (Tab. 6).

COLUMN LOAD

Column load "F" is pointed out in the table and it is referred to an axial barycentric load.

FAVOURABLE CONDITIONS FOR WORK

When the working conditions permit a safety factor 2 (permitted working stress 175 N/mm²) the loads P, Q and the deflections f listed in the table can be increased by 30%.

PROFILI / "U" SECTION

PROFILATO RINFORZATO - PRP

In acciaio zincato a caldo per immersione dopo lavorazione (ZF).
Lunghezza 3 m. Spessore 2,5 mm.
Asole 11 x 17 mm con interasse 33 mm.



Codice Code ZF	kg/m kg/m	Conf.m Pack.m
2520452	2,650	3

TAPPO PER SOSPENSIONI

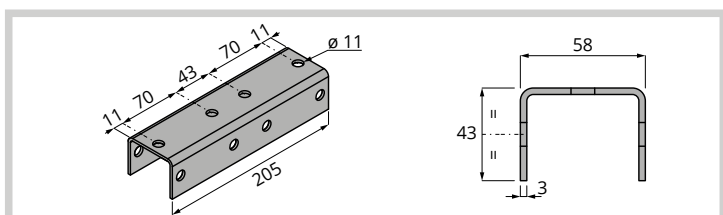
"U" SECTION END CAP



Codice Code	kg/pz kg/pcs	Conf.pz Pack.pcs
2030023	0,020	25

GIUNTO PER PROFILATO PRP - GPP

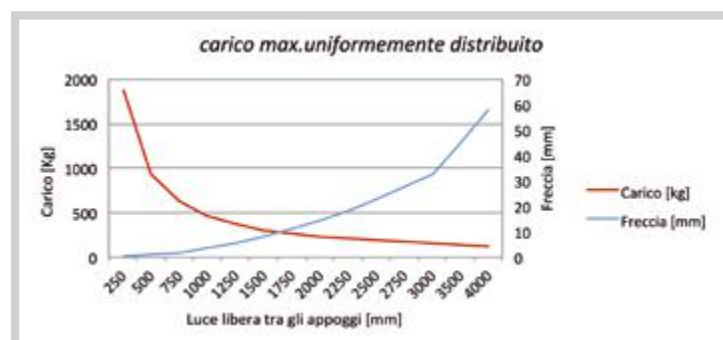
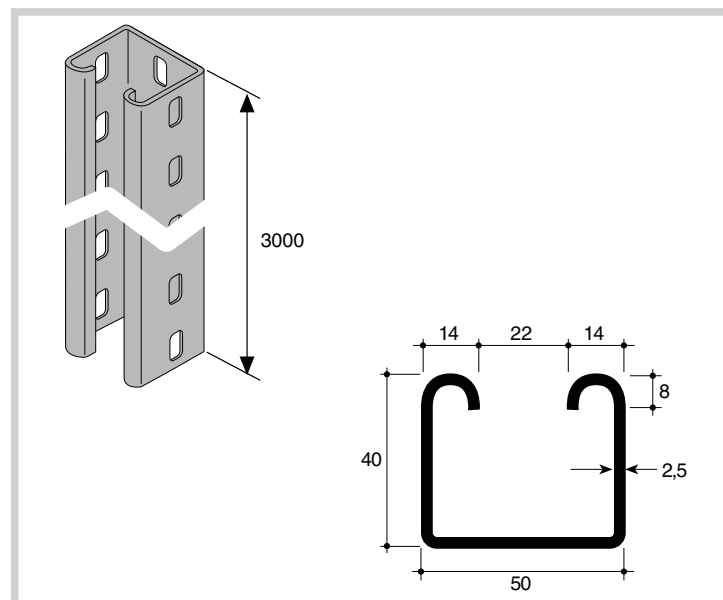
JOINT FOR PRP "U" SECTION - GPP



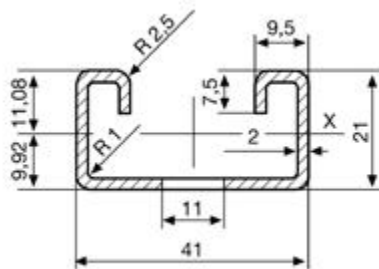
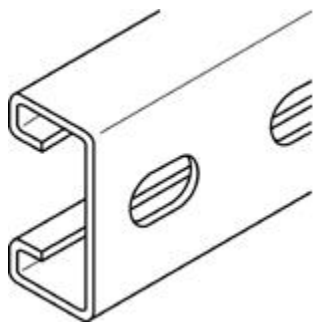
Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2520501	0,600	1

REINFORCED "U" SECTION - PRP

In hot-dip galvanized steel after machining (ZF).
Length 3 m. Thickness 2,5 mm.
Slots 11 x 17 mm with 33 mm centre to centre.



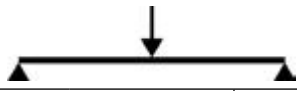
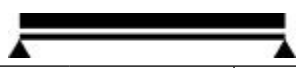
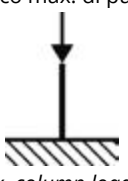
ISTRUZIONI TECNICHE / TECHNICAL INSTRUCTIONS



Caratteristiche / Characteristics		
Area / Area	1,81240	cm ²
Peso lineare / Linear weight	1,42270	kg/m
Peso lineare / Linear weight	1,39570	daN/m
J_x	1,05270	cm ⁴
W_x	0,94980	cm ³
r_x	0,76213	cm
J_y	4,79000	cm ⁴
W_y	2,33660	cm ³
r_y	1,62570	cm

Profilato di ancoraggio PRL - asolato / Channel PRL - slotted

Cod. 2020152

Luce	Carico max. concentrato in mezzeria		Freccia	Carico max. uniformemente distribuito		Freccia	Carico max. di punta	
								
Span	Max. load concentrated in the middle		Deflection	Max. load distributed uniformly		Deflection	Max. column loading	
L mm	P N	P kg	f_p mm	Q N	Q kg	f_q mm	F N	F kg
250	2128	217	0,32	4255	434	0,40	29060	2962
500	1064	108	1,28	2128	217	1,60	29060	2962
750	709	72	2,87	1418	145	3,59	24734	2521
1000	532	54	5,11	1064	108	6,39	13913	1418
1250	426	43	7,98	851	87	9,98	8904	908
1500	355	36	11,50	709	72	14,37	6183	630
1750	304	31	15,65	608	62	19,56	4543	463
2000	266	27	20,44	532	54	25,55	3478	355
2250	236	24	25,87	473	48	32,34	2748	280
2500	213	22	31,94	426	43	39,92	2226	227
2750	193	20	38,64	387	39	48,30	1840	188
3000	177	18	45,99	355	36	57,49	1546	158
3500	152	15	62,60	304	31	78,25	1136	116
4000	133	14	81,76	266	27	102,20	870	89

PORTATE DEL PROFILATO

Le portate ammissibili sono relative alle seguenti condizioni di impiego:

- trave appoggiata alle estremità su semplici appoggi;
- perfetto ritorno elastico;
- sollecitazione ammissibile: 140 N/mm²;
- coefficiente di sicurezza: $\geq 2,5$.

I carichi riportati in tabella sono:

- carico "P"; concentrato in mezzeria;
- carico "Q" uniformemente distribuito;
- carico "F" di punta.

Per condizioni di impiego diverse (disposizione del carico e appoggi) i valori di carico e di freccia si ottengono moltiplicando "Q" e " f_q " per i fattori corrispondenti riportati nella tabella di conversione (Tab. 6).

CARICO DI PUNTA

Il carico di punta "F" indicato in tabella è riferito ad un carico assiale baricentrico.

CONDIZIONI FAVOREVOLI DI LAVORO

Qualora le condizioni di installazione consentano di accettare un coefficiente di sicurezza pari a 2 (sollecitazione ammissibile 175 N/mm²) i carichi P, Q e le frecce f riportati in tabella possono essere aumentati del 30%.

LOADS OF THE CHANNEL

The permitted loads are referred to the following working conditions:

- simple beam laid on two supports;
- deflection complete elastic return;
- permitted working stress: 140 N/mm²;
- safety factor: $\geq 2,5$.

The loads pointed out in the table are:

- concentrated load in the middle "P";
- uniformly distributed load "Q";
- maximum column loading "F".

In any other working conditions (load disposition and supports), load and deflection are obtained getting the product of "Q" and " f_q " respectively with the correspondent factor in the conversion table (Tab. 6).

COLUMN LOAD

Column load "F" is pointed out in the table and it is referred to an axial barycentric load.

FAVOURABLE CONDITIONS FOR WORK

When the working conditions permit a safety factor 2 (permitted working stress 175 N/mm²) the loads P, Q and the deflections f listed in the table can be increased by 30%.

PROFILI / "U" SECTION

PROFILATO PER SOSPENSIONI - PRL

In acciaio zincato Sendzimir (ZS).
In acciaio zincato a caldo per immersione dopo lavorazione (ZF).
Lunghezza 3 m. Spessore 2 mm.
Asole 11 x 20 mm con interasse 50 mm.



Codice Code ZS	Codice Code ZF	kg/m kg/m	Conf.m Pack.m
2020152	2520152	1,370	3

TAPPO PER SOSPENSIONI

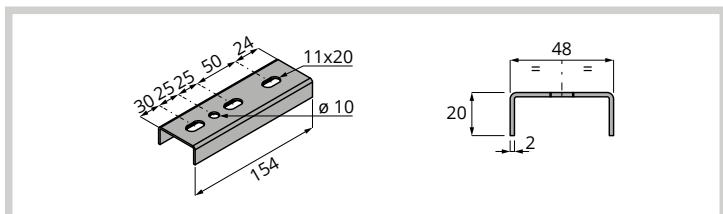
"U" SECTION END CAP



Codice Code	kg/pz kg/pcs	Conf.pz Pack.pcs
2030021	0,010	25

GIUNTO PER PROFILATO PRL - GPRL

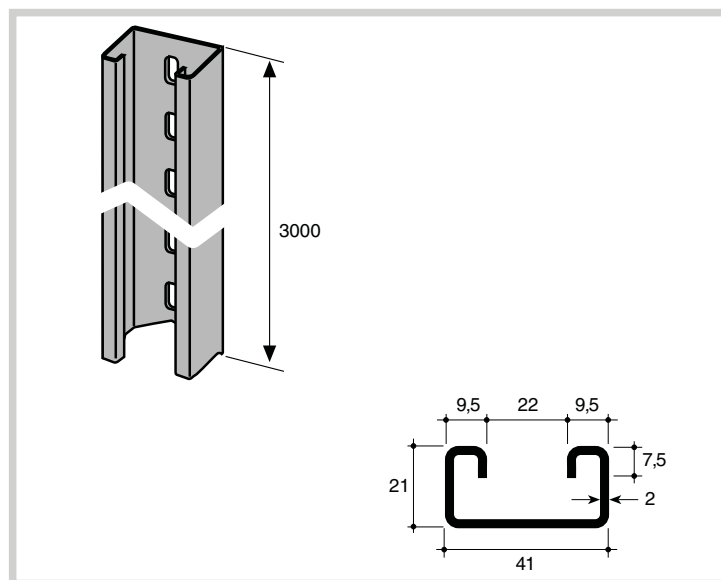
JOINT FOR PRL "U" SECTION - GPRL



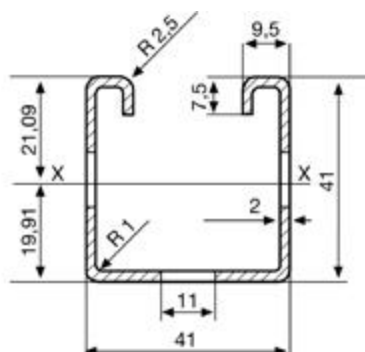
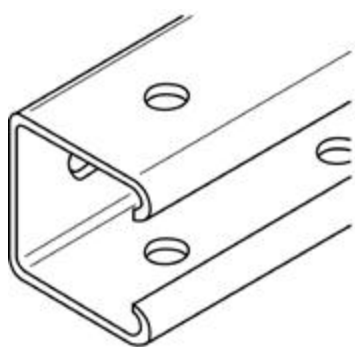
Codice Code ZS	Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2020153	2520153	0,150	1

"U" SECTION - PRL

In Sendzimir galvanized steel (ZS).
In hot galvanized steel after machining (ZF).
Length 3 m. Thickness 2 mm.
Slots 11 x 20 mm with 50 mm centre to centre.



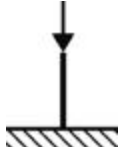
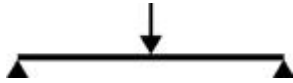
ISTRUZIONI TECNICHE / TECHNICAL INSTRUCTIONS



Caratteristiche / Characteristics		
Area / Area	2,1724	cm ²
Peso lineare / Linear weight	1,7050	kg/m
Peso lineare / Linear weight	1,6726	daN/m
J _x	5,6403	cm ⁴
W _x	2,6744	cm ³
r _x	1,9910	cm
J _y	6,1601	cm ⁴
W _y	3,0049	cm ³
r _y	2,1089	cm

Profilato di ancoraggio PRM - asolato / Channel PRM - slotted

Cod. 2020202

Luce	Carico max. concentrato in mezzeria		Freccia	Carico max. uniformemente distribuito		Freccia	 Carico max. di punta	
								
Span	Max. load concentrated in the middle		Deflection	Max. load distributed uniformly		Deflection	Max. column loading	
L mm	P N	P kg	f _p mm	Q N	Q kg	f _q mm	F N	F kg
250	5991	611	0,17	11981	1221	0,21	41707	4251
500	2995	305	0,67	5991	611	0,84	41707	4251
750	1997	204	1,51	3994	407	1,89	41707	4251
1000	1498	153	2,69	2995	305	3,36	41707	4251
1250	1198	122	4,20	2396	244	5,24	41707	4251
1500	998	102	6,04	1997	204	7,55	33130	3377
1750	856	87	8,22	1712	174	10,28	24340	2481
2000	749	76	10,74	1498	153	13,43	18636	1900
2250	666	68	13,59	1331	136	16,99	14724	1501
2500	599	61	16,78	1198	122	20,98	11927	1216
2750	545	56	20,31	1089	111	25,38	9857	1005
3000	499	51	24,17	998	102	30,21	8283	844
3500	428	44	32,89	856	87	41,12	6085	620
4000	374	38	42,96	749	76	53,70	4659	475

PORTATE DEL PROFILATO

Le portate ammissibili sono relative alle seguenti condizioni di impiego:

- trave appoggiata alle estremità su semplici appoggi;
- perfetto ritorno elastico;
- sollecitazione ammissibile: 140 N/mm²;
- coefficiente di sicurezza: $\geq 2,5$.

I carichi riportati in tabella sono:

- carico "P"; concentrato in mezzzeria;
- carico "Q" uniformemente distribuito;
- carico "F" di punta.

Per condizioni di impiego diverse (disposizione del carico e appoggi) i valori di carico e di freccia si ottengono moltiplicando "Q" e "f_q" per i fattori corrispondenti riportati nella tabella di conversione (Tab. 6).

CARICO DI PUNTA

Il carico di punta "F" indicato in tabella è riferito ad un carico assiale baricentrico.

CONDIZIONI FAVOREVOLI DI LAVORO

Qualora le condizioni di installazione consentano di accettare un coefficiente di sicurezza pari a 2 (sollecitazione ammissibile 175 N/mm²) i carichi P, Q e le frecce f riportati in tabella possono essere aumentati del 30%.

LOADS OF THE CHANNEL

The permitted loads are referred to the following working conditions:

- simple beam laid on two supports;
- deflection complete elastic return;
- permitted working stress: 140 N/mm²;
- safety factor: $\geq 2,5$.

The loads pointed out in the table are:

- concentrated load in the middle "P";
- uniformly distributed load "Q";
- maximum column loading "F".

In any other working conditions (load disposition and supports), load and deflection are obtained getting the product of "Q" and "f_q" respectively with the correspondent factor in the conversion table (Tab. 6).

COLUMN LOAD

Column load "F" is pointed out in the table and it is referred to an axial barycentric load.

FAVOURABLE CONDITIONS FOR WORK

When the working conditions permit a safety factor 2 (permitted working stress 175 N/mm²) the loads P, Q and the deflections f listed in the table can be increased by 30%.

PROFILI / "U" SECTION

PROFILATO PER SOSPENSIONI - PRM

In acciaio zincato Sendzimir (ZS).
In acciaio zincato a caldo per immersione dopo lavorazione (ZF).
Lunghezza 3 m. Spessore 2 mm.
Asole 11 x 20 mm con interasse 50 mm.
Fori Ø 9 mm con interasse 50 mm.



Codice Code ZS	Codice Code ZF	kg/m kg/m	Conf.m Pack.m
2020202	2520202	1,920	3

TAPPO PER SOSPENSIONI

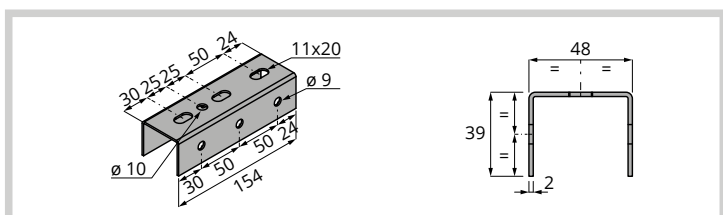
"U" SECTION END CAP



Codice Code	kg/pz kg/pcs	Conf.pz Pack.pcs
2030022	0,020	25

GIUNTO PER PROFILATO PRM - GPRM

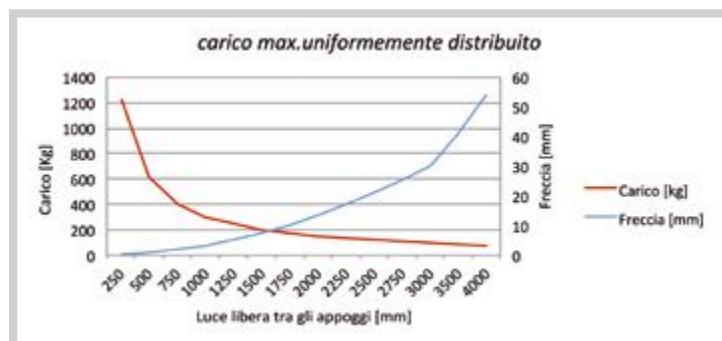
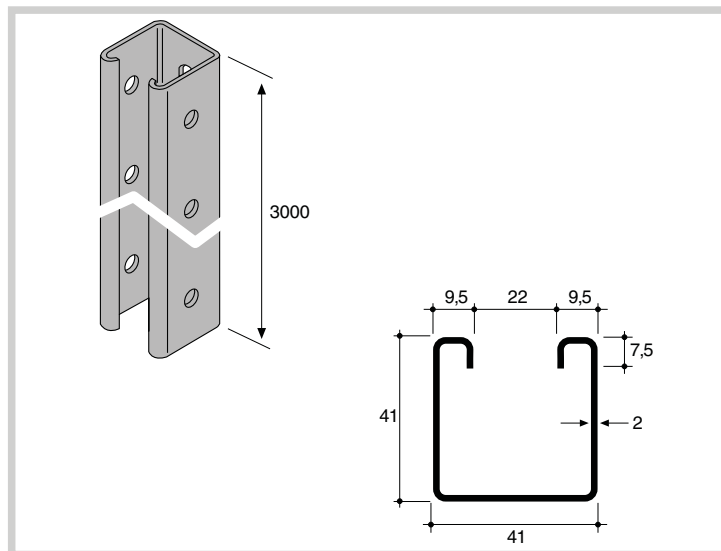
JOINT FOR PRM "U" SECTION - GPRM



Codice Code ZS	Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2020203	2520203	0,200	1

"U" SECTION - PRM

In Sendzimir galvanized steel (ZS).
In hot galvanized steel after machining (ZF).
Length 3 m. Thickness 2 mm.
Slots 11 x 20 mm with 50 mm centre to centre.
Holes Ø 9 mm with 50 mm centre to centre.



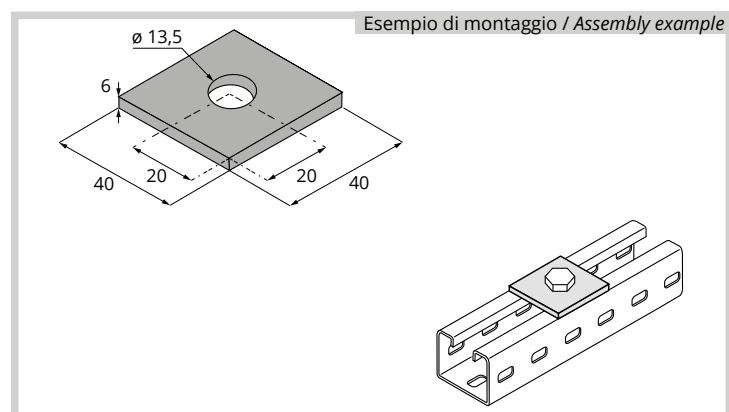
PIASTRE DI RACCORDO / CONNECTING PLATES

PIASTRA - PR 101

PLATE - PR 101



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610001	0,085	1

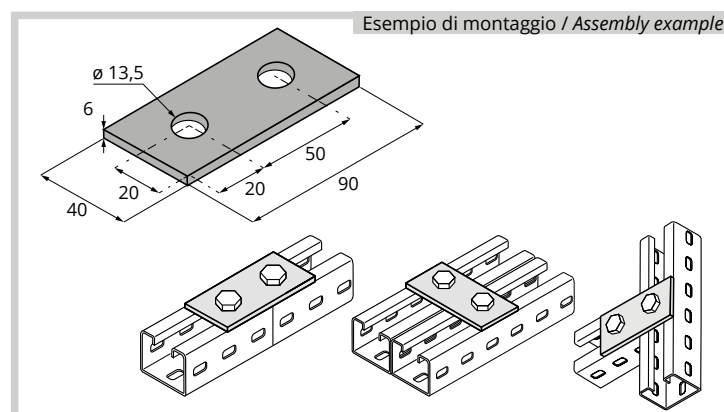


PIASTRA - PR 102

PLATE - PR 102



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610002	0,170	1

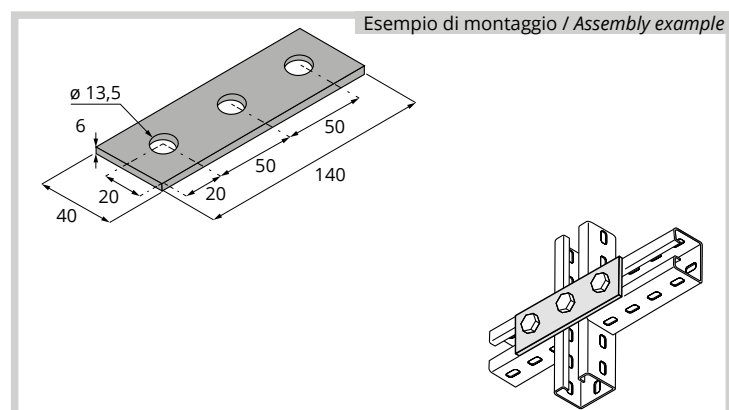


PIASTRA - PR 103

PLATE - PR 103



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610003	0,260	1

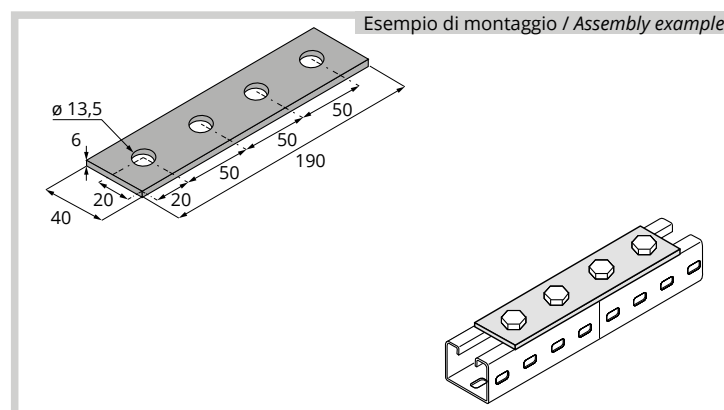


PIASTRA - PR 104

PLATE - PR 104



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610004	0,350	1



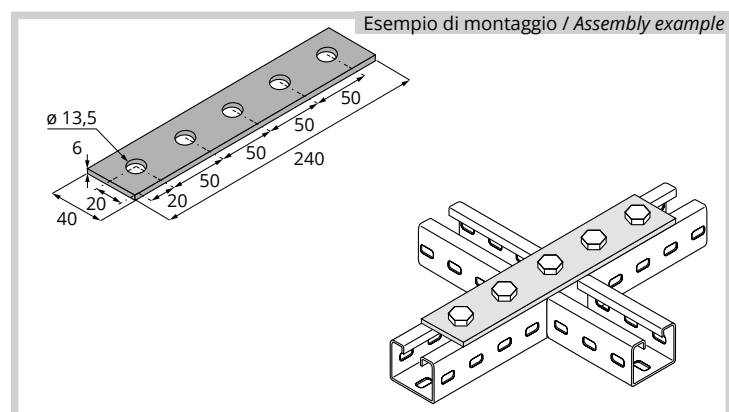
PIASTRE DI RACCORDO / CONNECTING PLATES

PIASTRA - PR 105

PLATE - PR 105



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610005	0,430	1

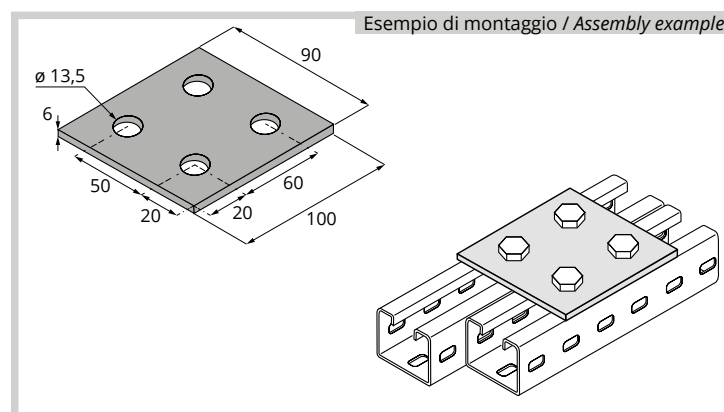


PIASTRA - PR 106

PLATE - PR 106



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610006	0,400	1

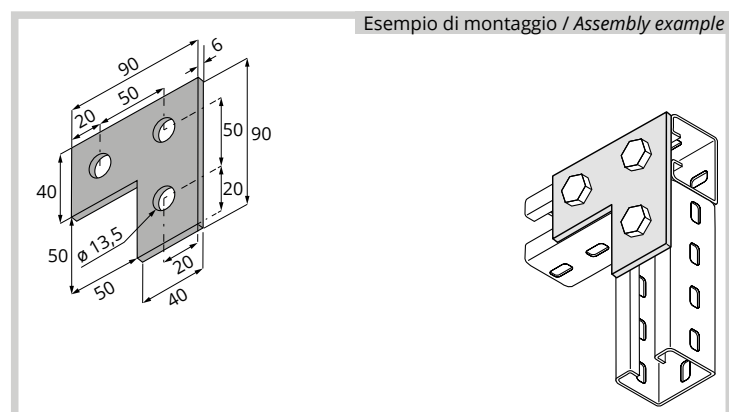


PIASTRA - PR 107

PLATE - PR 107



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610007	0,250	1

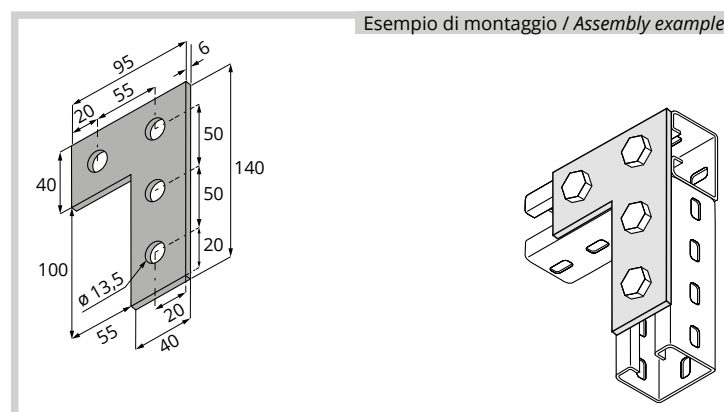


PIASTRA - PR 108

PLATE - PR 108



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610008	0,330	1



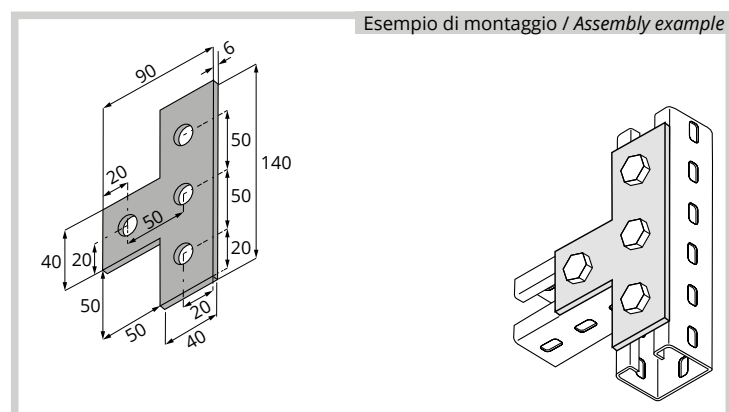
PIASTRE DI RACCORDO / CONNECTING PLATES

PIASTRA - PR 109

PLATE - PR 109



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610009	0,330	1

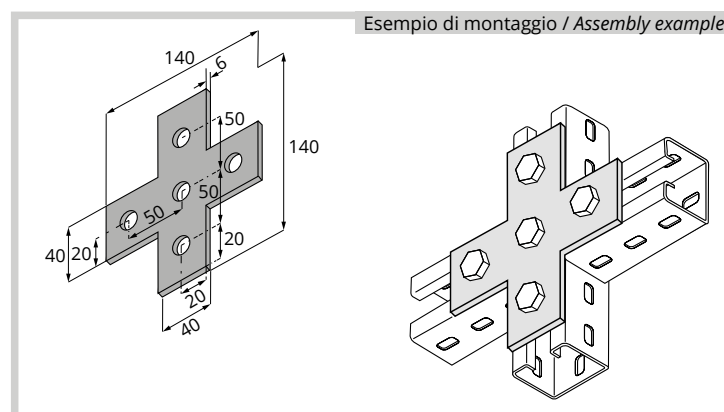


PIASTRA - PR 110

PLATE - PR 110



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610010	0,410	1

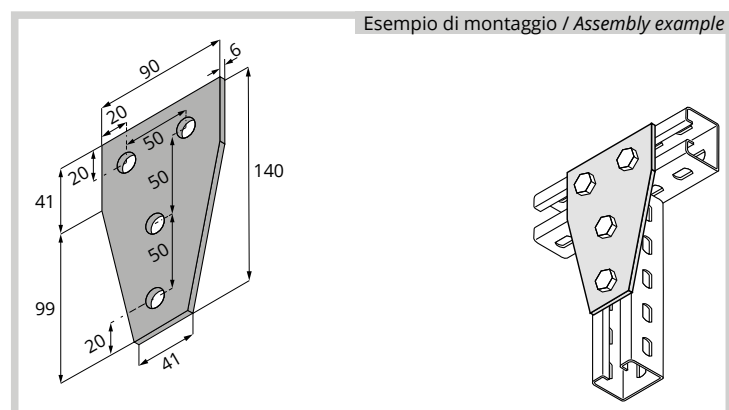


PIASTRA - PR 124

PLATE - PR 124



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610024	0,330	1

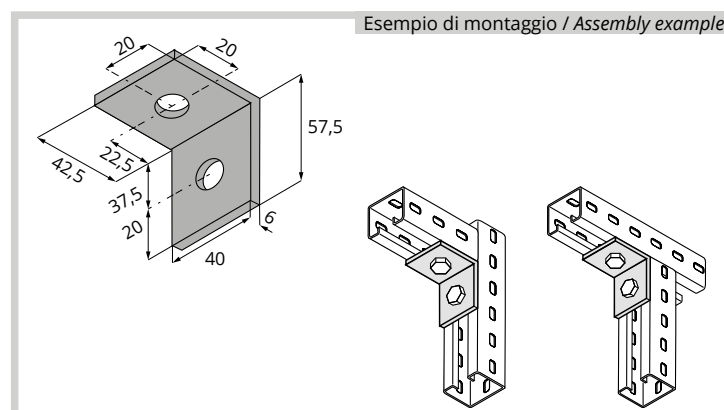


PIASTRA - PR 111

PLATE - PR 111



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610011	0,160	1



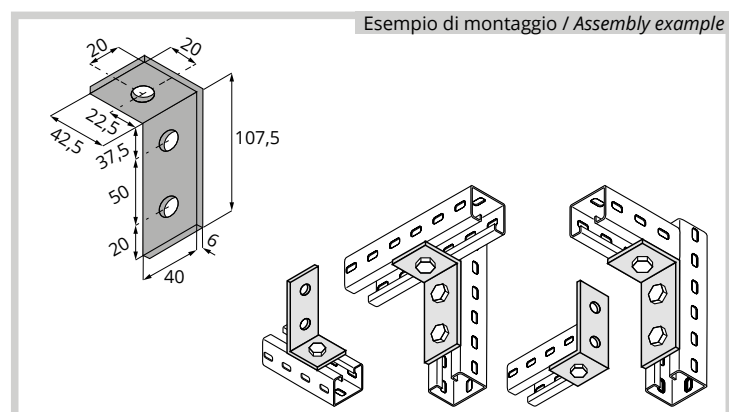
PIASTRE DI RACCORDO / CONNECTING PLATES

PIASTRA - PR 112

PLATE - PR 112



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610012	0,250	1

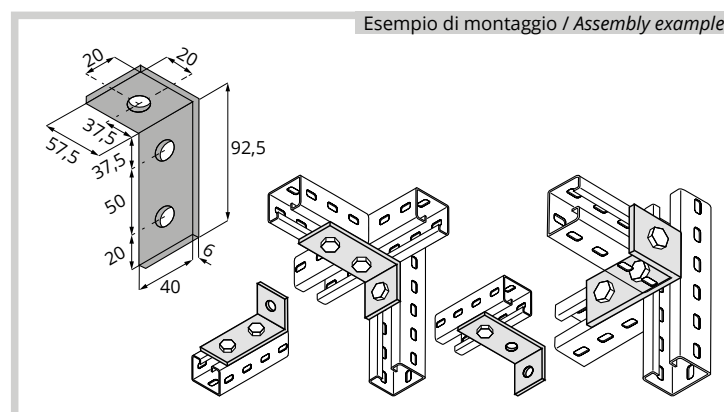


PIASTRA - PR 113

PLATE - PR 113



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610013	0,250	1

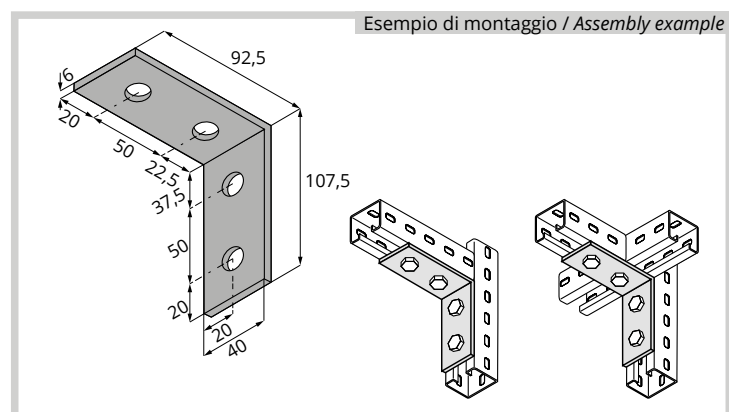


PIASTRA - PR 114

PLATE - PR 114



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610014	0,330	1

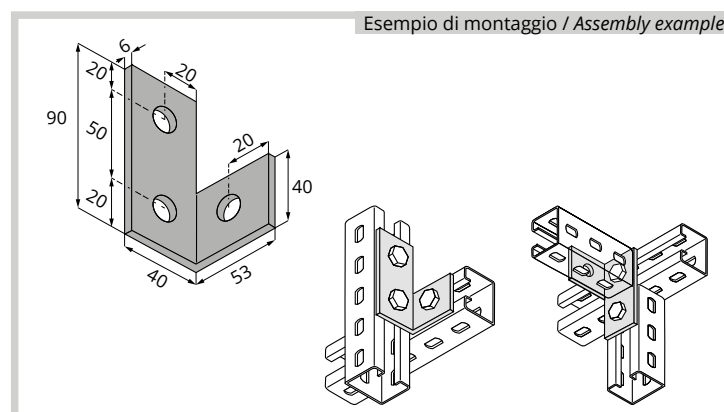


PIASTRA - PR 125

PLATE - PR 125



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610025	0,250	1



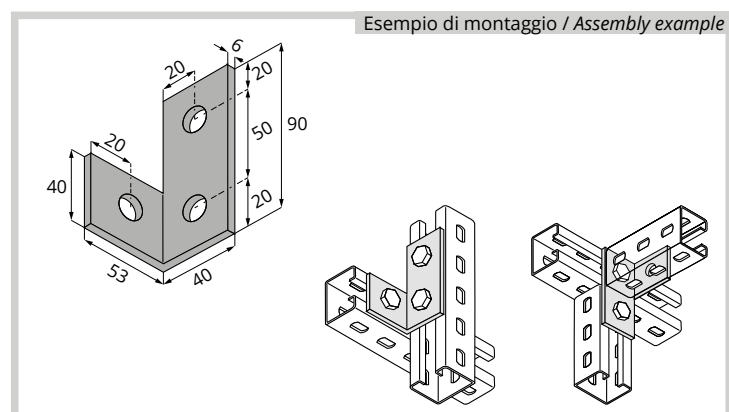
PIASTRE DI RACCORDO / CONNECTING PLATES

PIASTRA - PR 126

PLATE - PR 126

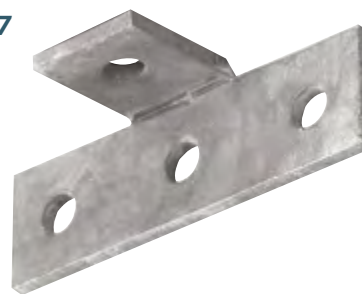


Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610026	0,250	1

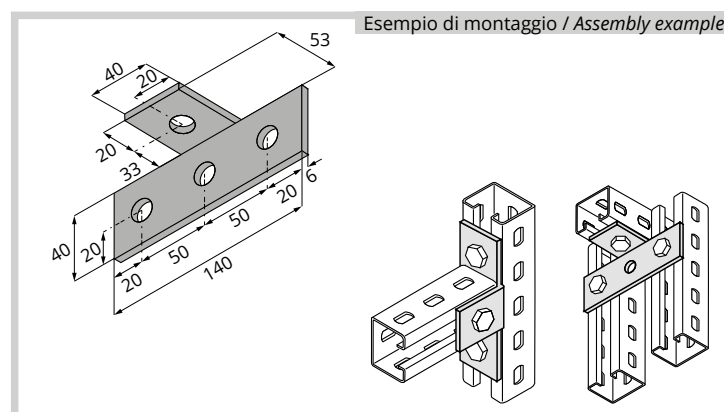


PIASTRA - PR 127

PLATE - PR 127



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610027	0,350	1

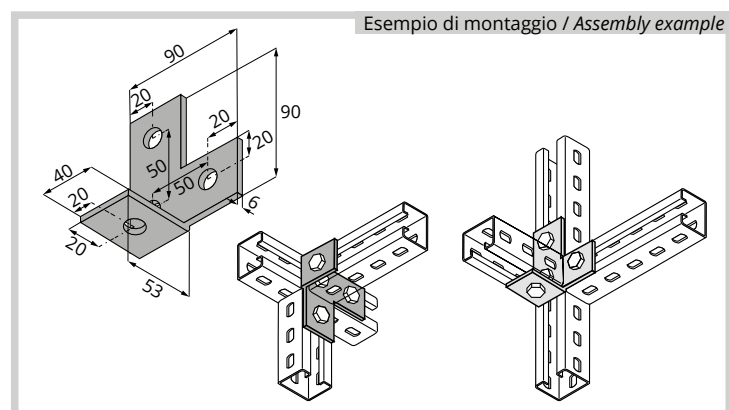


PIASTRA - PR 128

PLATE - PR 128



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610028	0,350	1

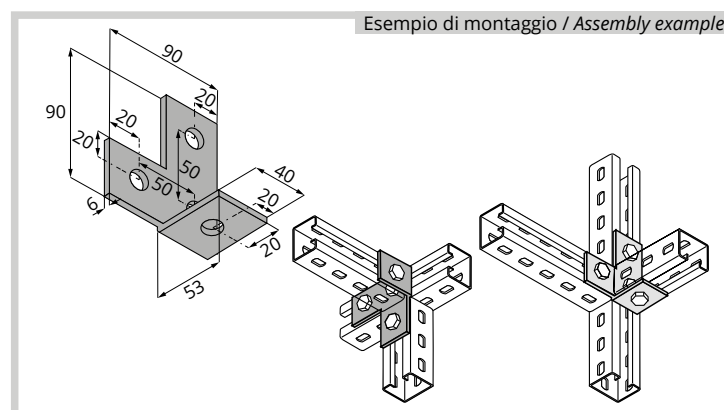


PIASTRA - PR 129

PLATE - PR 129



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610029	0,350	1



PIASTRE DI RACCORDO / CONNECTING PLATES

PIASTRA - PR 115

PLATE - PR 115



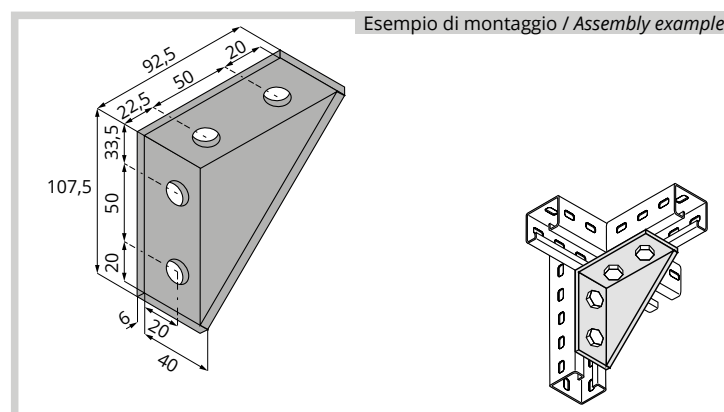
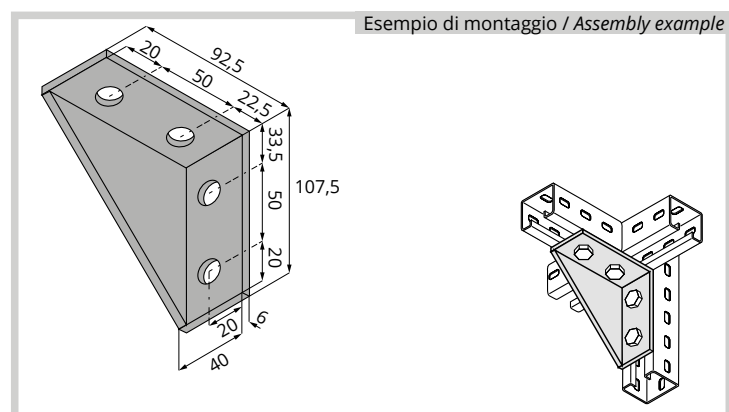
Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610015	0,420	1

PIASTRA - PR 116

PLATE - PR 116



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610016	0,420	1



PIASTRA - PR 132

PLATE - PR 132



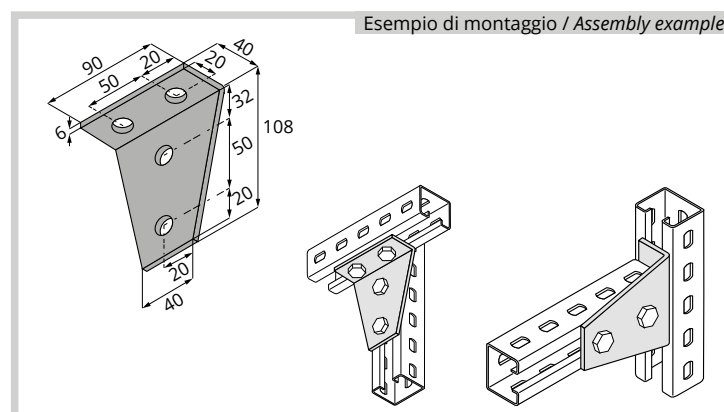
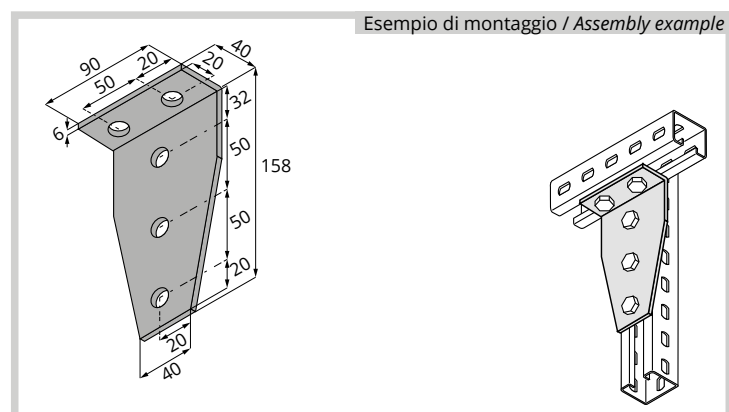
Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610032	0,660	1

PIASTRA - PR 133

PLATE - PR 133



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610033	0,440	1



PIASTRE DI RACCORDO / CONNECTING PLATES

PIASTRA - PR 134

PLATE - PR 134

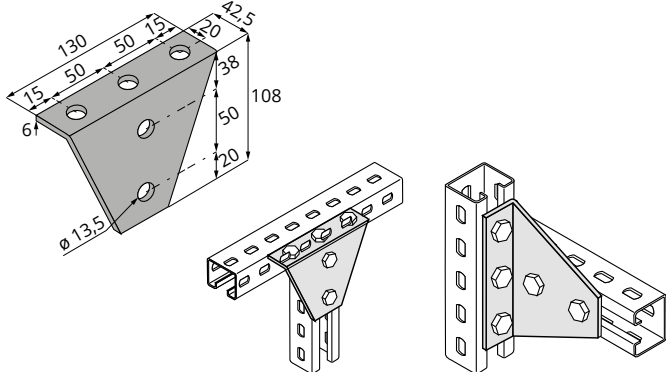
Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610034	0.750	1

PIASTRA - PR 135

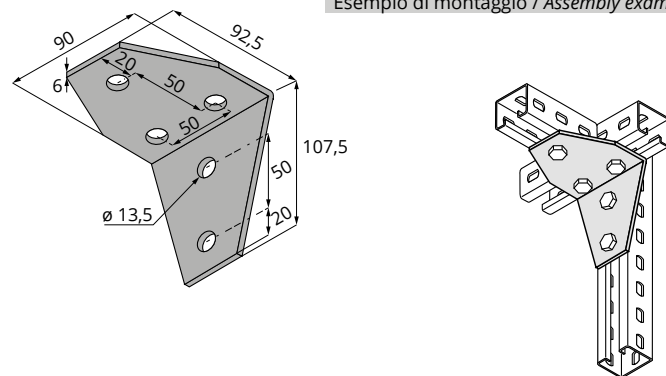
PLATE - PR 135

Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610035	0.610	1

Esempio di montaggio / Assembly example



Esempio di montaggio / Assembly example

**PIASTRA - PR 137****PLATE - PR 137**

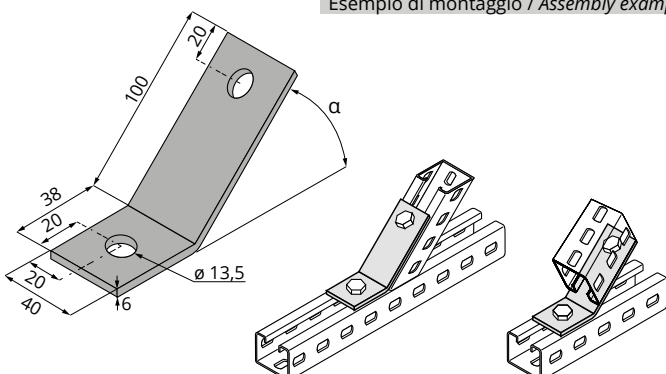
Codice Code ZF	kg/pz kg/pcs	α a	Conf.pz Pack.pcs
2610037	0,250	45°	1
2610047	0,250	25°	1
2610048	0,250	30°	1
2610049	0,250	35°	1

PIASTRA - PR 138

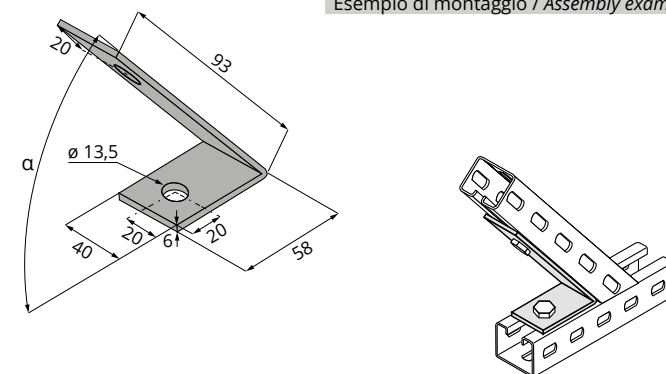
PLATE - PR 138

Codice Code ZF	kg/pz kg/pcs	α a	Conf.pz Pack.pcs
2610038	0,290	45°	1
2610051	0,290	65°	1
2610052	0,290	60°	1
2610053	0,290	55°	1

Esempio di montaggio / Assembly example



Esempio di montaggio / Assembly example



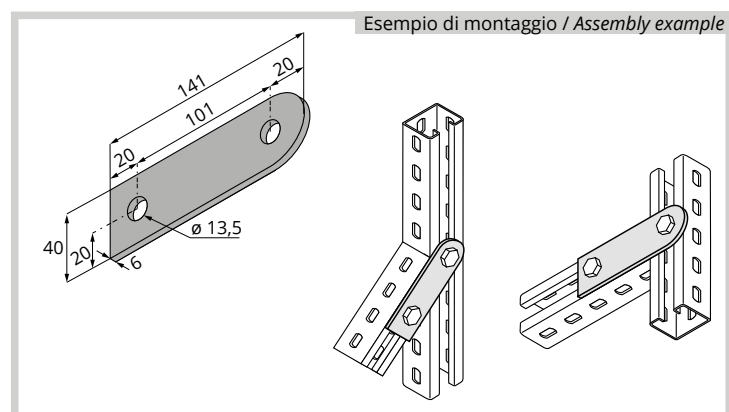
PIASTRE DI RACCORDO / CONNECTING PLATES

PIASTRA - PR 136

PLATE - PR 136



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610036	0,300	1

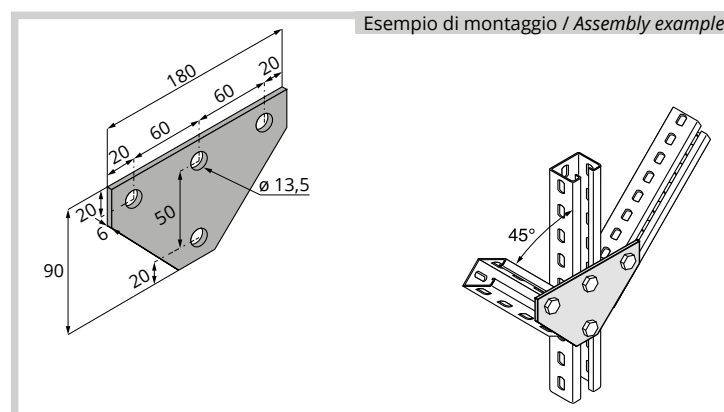


PIASTRA - PR 142

PLATE - PR 142



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610042	0,600	1

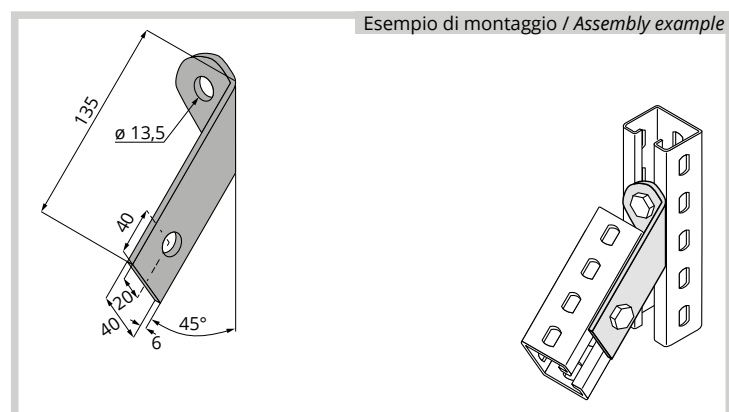


PIASTRA - PR 139

PLATE - PR 139



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610039	0,270	1

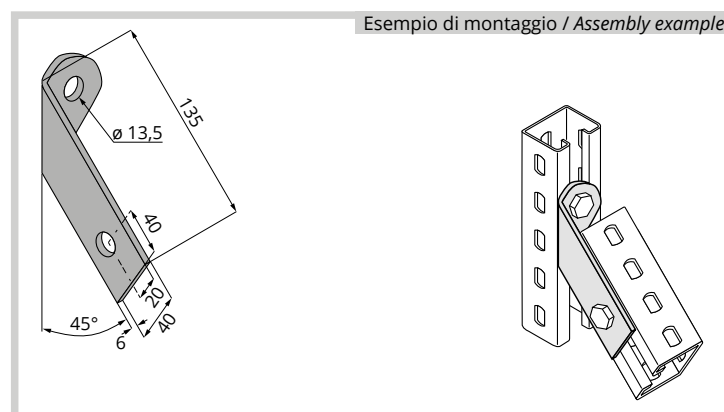


PIASTRA - PR 140

PLATE - PR 140



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610040	0,270	1



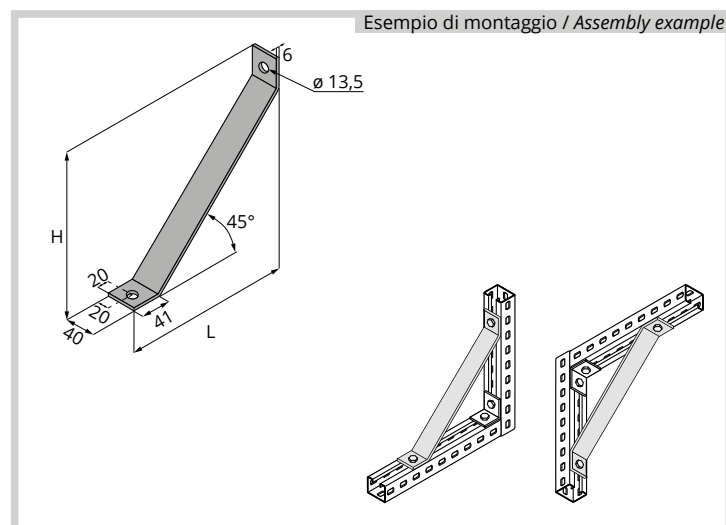
PIASTRE DI RACCORDO / CONNECTING PLATES

PIASTRA - PR 143 - PR 144 - PR 145



	Codice Code ZF	Altezza Height	Lungh. Length	kg/pz kg/pcs	Conf.pz Pack.pcs
PR 143	2610043	200	200	0,600	1
PR 144	2610044	300	300	0,880	1
PR 145	2610045	500	500	1,470	1

PLATE - PR 143 - PR 144 - PR 145



PIASTRA - PR 117

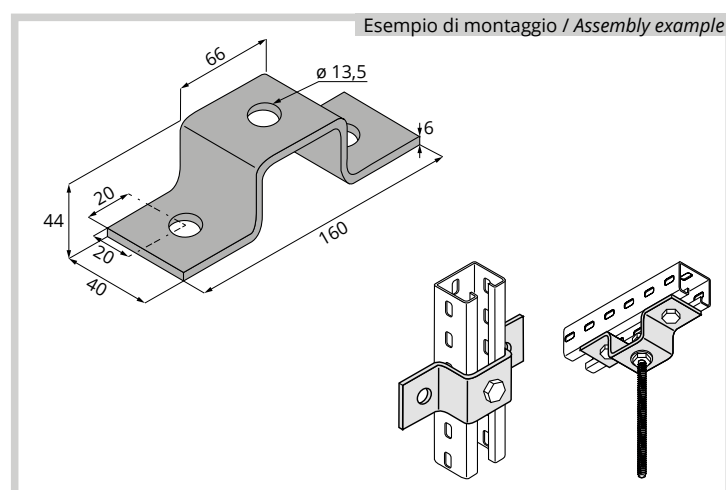
Per profilato **PRP**.



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610017	0,560	1

PLATE - PR 117

For **PRP** profile.



PIASTRA - PR 118

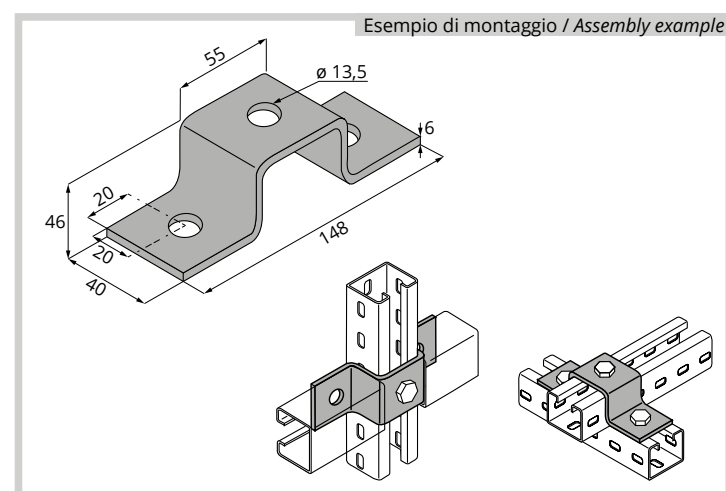
Per profilato **PRM**.



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610018	0,450	1

PLATE - PR 118

For **PRM** profile.



PIASTRE DI RACCORDO / CONNECTING PLATES

PIASTRA - PR 121

Per profilato **PRP**.



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610021	0,810	1

PIASTRA - PR 122

Per profilato **PRM**.



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610022	0.600	1

PIASTRA - PR 150

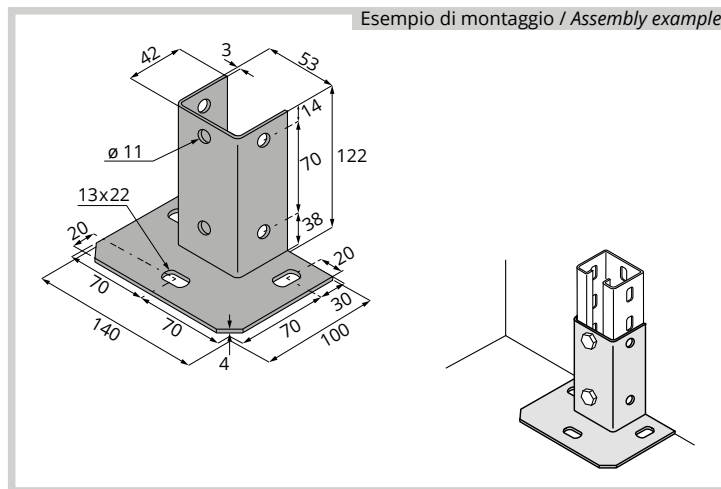
Spessore 8 mm.



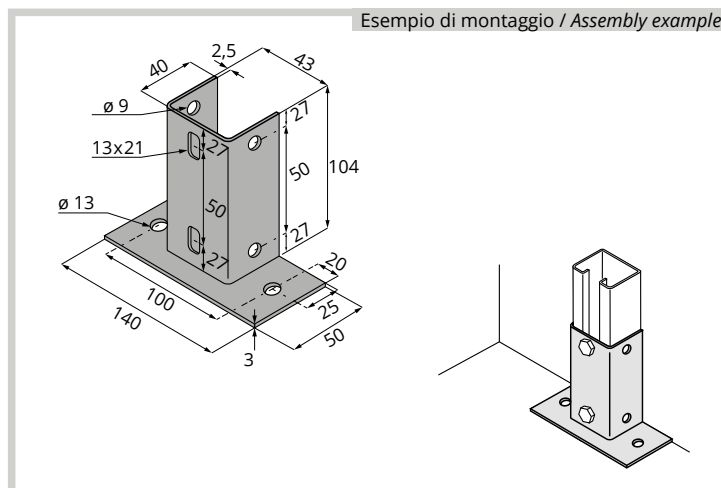
Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610050	4.000	1

PLATE - PR 121

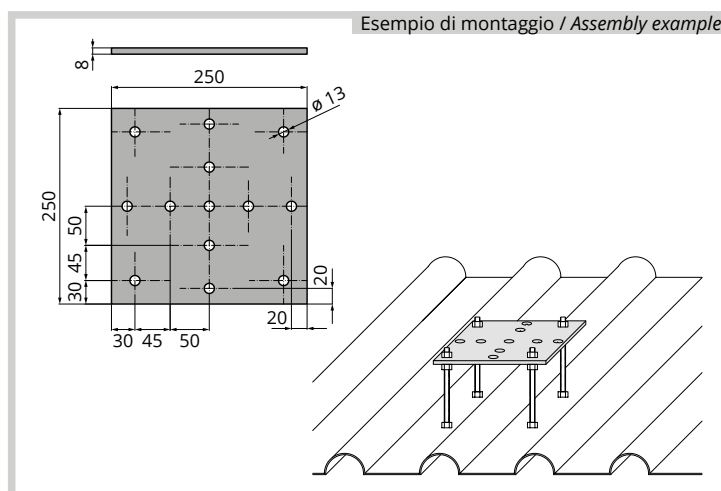
For **PRP** profile.

**PLATE - PR 122**

For **PRM** profile.

**PLATE - PR 150**

Thickness 8 mm.



ACCESSORI / FITTINGS

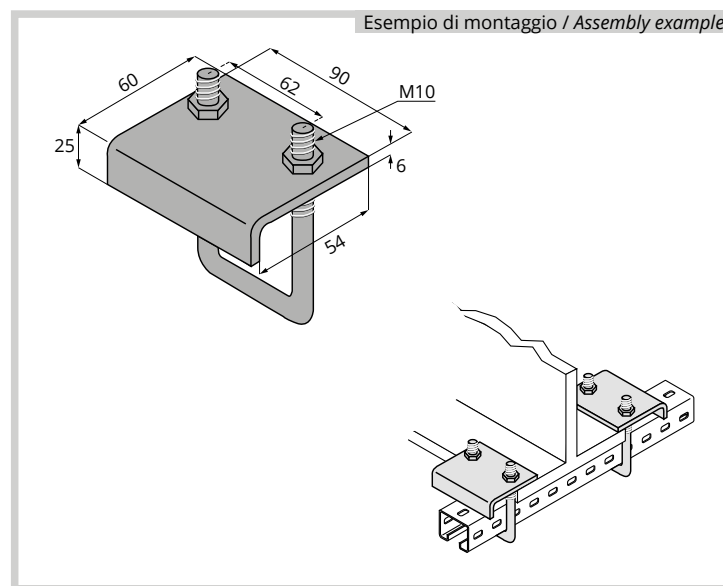
PIASTRA - PR 119

Piastra per fissaggio su travi con spessore max. 18 mm.
Spessore piastra 6 mm.
Fori Ø 11,5 mm.
Fornita completa di cavallotto zincato elettroliticamente, rondelle, dadi M10.



PLATE - PR 119

Fitting for fixing on beams with max thickness 18 mm.
Plate of thickness 6 mm.
Holes Ø 11,5 mm.
Supplied complete of electrolytic galvanized "U" bolt, washers, M10 nuts.



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610019	0,450	1

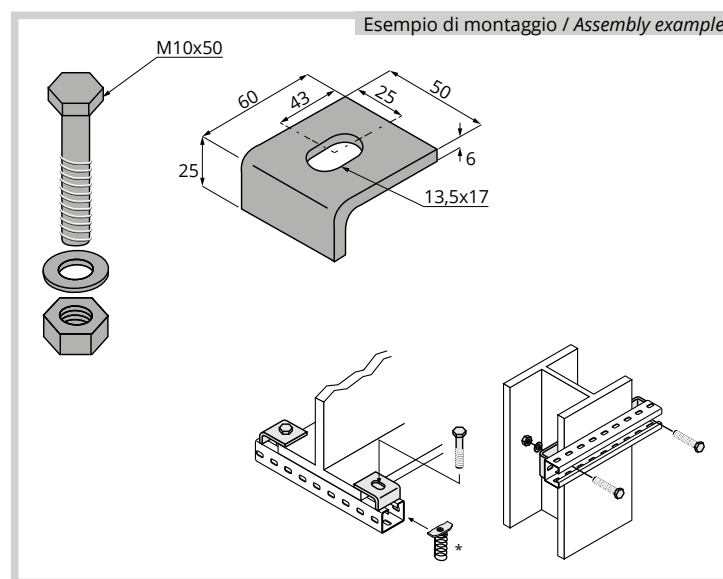
PIASTRA - PR 120

Piastra per fissaggio su travi con spessore max. 18 mm.
Spessore piastra 6 mm.
Asola 13,5 x 17 mm.
Fornita completa di vite M10x50 zincata elettroliticamente, dado, rondella.
* Ordinare a parte le piastrelle a molla.



PLATE - PR 120

Fitting for fixing on beams with max thickness 18 mm.
Plate of thickness 6 mm.
Slot 13,5 x 17 mm.
Supplied complete of electrolytic galvanized screw M10 x 50, nut, washer.
* Spring nuts to be ordered separately.



Codice Code ZF	kg/pz kg/pcs	Conf.pz Pack.pcs
2610020	0,240	1

ACCESSORI / ACCESSORIES

STAFFA OSCILLANTE - STO

In acciaio elettrozincato.

A morsetto oscillante, per fissaggio su travi con spessore max. 24 mm. Completa di vite a punta indurita, staffa oscillante, dado M10, rondella, dado speciale M10.

Adatta per aste filettate AS - M10.

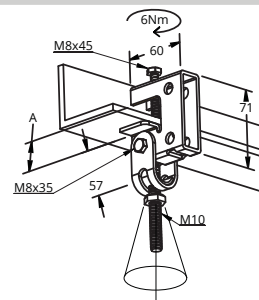


BEAM CLAMP WITH SWIVEL - STO

In elettrolaccato.

Fitting with swinging clamp, to fix on beams with max. thickness of 24 mm. Complete of screw with hardened top, swinging rod, M10 nut, washer, special M10 nut.

Suitable to threaded rod AS - M10.



Codice Code	kg/pz kg/pcs	Conf.pz Pack.pcs
2610501	0,320	1

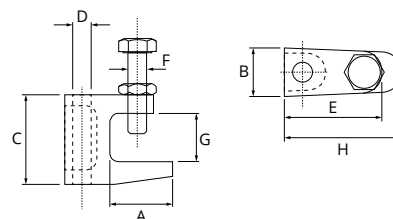
MORSETTO PER TRAVE

In acciaio elettrozincato.



BEAM CLAMP

In elettrolaccato.



Codice Code	Filettatura Thread D	Bullone Bolt F	A	B	C	E	G	H	kg/pz kg/pcs	Conf.pz Pack.pcs
2610504	M8 / ø 9	M10	29	21	45	41	23	50	0,145	1
2610505	M6 / ø 7	M10	29	21	45	41	23	50	0,145	1
2610508	M10 / ø 11	M12	26	29,5	58	55	28	58	0,335	1
2610509	M12 / ø 13	M12	26	29,5	58	55	28	58	0,335	1

BARRA FILETTATA PER SOSPENSIONE - AS

In acciaio zincato
elettroliticamente (ZE).
In acciaio Inox (IX).

THREADED ROD - AS

In galvanizzato (ZE).
In acciaio Inox (IX).



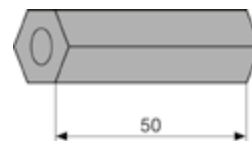
Lungh. Length	Filettatura Thread	Codice Code ZE	Codice Code IX	kg/pz. kg/pcs	Conf.pz Pack.pcs
1000	M 6	2020301	2420301	0,170	20
	M 8	2020302	2420302	0,310	20
	M10	2020303	2420303	0,400	20
	M12	2020304	2420304	0,700	10

MANICOTTO DI PROLUNGA - MA

In acciaio zincato
elettroliticamente (ZE).
In acciaio Inox (IX).

ROD COUPLING - MA

In galvanizzato (ZE).
In acciaio Inox (IX).



Lungh. Length	Filettatura Thread	Chiave Wrench	Codice Code ZE	Codice Code IX	kg/pz. kg/pcs	Conf.pz Pack.pcs
50	M 6	10	2020351	2420351	0,025	100
	M 8	13	2020352	2420352	0,030	50
	M10	17	2020353	2420353	0,040	25
	M12	19	2020354	2420354	0,060	25

VITERIE / SCREWS

VITI - DADI - RONDELLE - VDR

BZE: In acciaio zincato elettroliticamente.

BZF: In acciaio zincato a caldo.

IX: In acciaio Inox - AISI 304.

GEOMET: In acciaio rivestito a caldo con Zn e Al.

Per collegare tra loro mensole, profilati, supporti, staffe.



A norme CEI EN 50085-1/A1:2013-06, EN 50085-2-1/A1:2011-10 / CEI EN Standard 50085-1/A1:2013-06, EN 50085-2-1/A1:2011-10.
Conforme CEI EN 61537 / In according to CEI EN 61537

VITE E DADO ZINCATI A CALDO

In acciaio zincato a caldo per immersione dopo lavorazione (DIN 267/10). Con quadro sottotesta.

Completa di dado con zigrinatura antiallentamento.

SCREW AND NUT HOT-DIP GALVANIZED

In hot-dip galvanized steel after machining (DIN 267/10). With short square section.

Complete of nuts with antiloosening knurling.



Filettatura Thread	Codice Code BZF	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6 x 15	2720551	0,520	100

VITE

Testa esagonale.

SCREW

Hex head cap.



Filettatura Thread	Codice Code BZE	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 8 x 20	2710251	1,200	100
M 8 x 30	2710252	1,500	100
M 8 x 50	2710254	0,520	25
M 8 x 60	2710253	1,250	50
M10 x 20	2710301	2,300	100
M10 x 30	2710302	2,750	100
M10 x 50	2710303	2,950	100

Filettatura Thread	Codice Code BZF	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 8 x 20	2720101	1,200	100
M 8 x 30	2720102	1,500	100
M 8 x 50	2720254	0,520	25
M 8 x 60	2720253	1,250	50
M10 x 20	2720151	2,300	100
M10 x 30	2720152	2,750	100
M10 x 50	2720153	2,950	100

Filettatura Thread	Codice Code IX	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 8 x 20	2730251	1,200	100
M 8 x 30	2730252	1,500	100
M 8 x 50	2730254	0,520	25
M 8 x 60	2730153	1,250	50
M10 x 20	2730301	2,300	100
M10 x 30	2730302	2,750	100
M10 x 50	2730303	2,950	100

VITE

Testa cilindrica con cava esagonale.

SCREW

Hex head cap.



Filettatura Thread	Codice Code IX	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 8 x 20	2730351	0,650	50
M 8 x 30	2730353	0,800	50

SCREWS - NUTS - WASHERS - VDR

BZE: In galvanic/electrolytic zinc plated.

BZF: In hot-dip galvanized steel.

IX: In stainless steel - AISI 304.

GEOMET: In hot-dip coated steel with Zn and Al.

To join brackets, "U" sections, ceiling supports.



VITE

Con quadro sottotesta.

Viti M8 - M10 specialmente adatte per unire i profilati **PSL - PSM - PRL - PRM** ai supporti **SML - SSM**.

SCREW

With short square section.

Screws M8 - M10 specially suitable for joining **PSL - PSM - PRL - PRM** "U" sections to **SML - SSM** supports.



Filettatura Thread	Codice Code BZE	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6 x 10	2710001	1,040	200
M 8 x 20	2710151	1,300	100
M 8 x 30	2710152	1,720	100
M10 x 20	2710201	2,320	100
M10 x 30	2710202	2,800	100

Filettatura Thread	Codice Code IX	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6 x 10	2730001	1,040	200

VITE, DADO E RONDELLA

Testa ad ancora. Completa di dado e rondella.

Per fissaggi su profilati **PRL - PRM - PRP**.

SCREW, NUT AND WASHER

Anchor head screws. Completa of nut and washer.
To fixing on **PRL - PRM - PRP** "U" sections.



Filettatura Thread	Codice Code BZE	kg/conf. kg/pack.	Conf.pz Pack.pcs
M10 x 30	2710351	2,800	50

VITE CON DADO A FLANGIA ZIGRINATA

Testa ad ancora. Completa di dado con flangia zigrinata.

Per fissaggi su profilati **PRL - PRM - PRP**.

SCREW WITH HEXAGON FLANGE NUT SERRATED

Anchor head screws with hexagon flange nut serrated.
To fixing on **PRL - PRM - PRP** "U" sections.



Filettatura Thread	Codice Code GEOMET	kg/conf. kg/pack.	Conf.pz Pack.pcs
M10 x 30	2720351	2,700	50

VITERIE / SCREWS

PIASTRINA AD ANCORA - PAP

In **acciaio zincato elettroliticamente**, con molla di contrasto "a perdere".

Idonea per il solo profilato **PRP**.

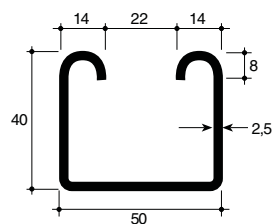
La filettatura del dado si adatta anche alle viti zincate a caldo **BZF**, purché da noi fornite.

CHANNEL NUT WITH LONG SPRING - PAP

In **galvanized steel** with spring.

Suitable for **PRP** "U" section only.

Nut thread is also suitable for **BZF** hot-dipped screws, if provided by us.



Filettatura Thread	Codice Code BZE	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 8	2710601	1,500	50
M10	2710602	1,600	50

Filettatura Thread	Codice Code DACROMET	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 8	2710611	1,500	50
M10	2710612	1,600	50

PIASTRINA AD ANCORA MOLLA LUNGA - PMP

In **acciaio zincato elettroliticamente** (BZE).

In **acciaio zincato a caldo** (BZF).

In **acciaio Inox A2** (IX)

Idonea per il profilato **PRM**.

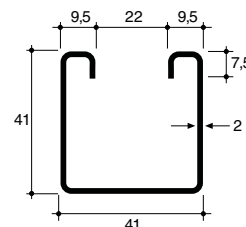
CHANNEL NUT WITH LONG SPRING - PMP

In **electroplated zinc steel** (BZE).

In **hot-dip galvanized steel** (BZF).

In **Stainless Steel A2** (IX)

Suitable for the **PRM** "U" sections.



Filettatura Thread	Codice Code BZE	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2710669		50
M 8	2710661	1,500	50
M10	2710662	1,650	50

Filettatura Thread	Codice Code BZF	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2710670		50
M 8	2710665	1,600	50
M10	2710666	1,750	50

Filettatura Thread	Codice Code IX	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2730657		50
M 8	2730665	1,500	50
M10	2730666		50

PIASTRINA AD ANCORA MOLLA CORTA - PMP

In **acciaio zincato elettroliticamente** (BZE).

In **acciaio zincato a caldo** (BZF).

In **acciaio Inox A2** (IX)

Idonea per il profilato **PRL**.

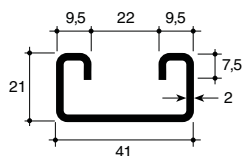
CHANNEL NUT WITH SHORT SPRING - PMP

In **electroplated zinc steel** (BZE).

In **hot-dip galvanized steel** (BZF).

In **Stainless Steel A2** (IX)

Suitable for the **PRL** "U" sections.



Filettatura Thread	Codice Code BZE	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2710656		50
M 8	2710663	1,400	50
M10	2710664	1,450	50

Filettatura Thread	Codice Code BZF	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2720656		50
M 8	2710667	1,500	50
M10	2710668	1,550	50

Filettatura Thread	Codice Code IX	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2730656		50
M 8	2730667	1,500	50
M10	2730668	1,600	50

PIASTRINA AD ANCORA - PMP

In **acciaio zincato a caldo** (BZF).

In **acciaio Inox A2** (IX)

CHANNEL NUTS WITHOUT SPRINGS - PMP

In **hot-dip galvanized steel** (BZF).

In **Stainless Steel A2** (IX)

Filettatura Thread	Codice Code BZF	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 8	2720660		

Filettatura Thread	Codice Code IX	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 8	2730660		

VITERIE / SCREWS

DADO

Esagonali.

NUT

Hex nuts.



Filettatura Thread	Codice Code BZE	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2710552	0,450	200
M 8	2710553	0,510	100
M10	2710554	1,140	100
M12	2710555		

Filettatura Thread	Codice Code BZF	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2720300		200
M 8	2720301	0,510	100
M10	2720302	1,140	100
M12	2720303		

Filettatura Thread	Codice Code IX	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2730552	0,450	200
M 8	2730553	0,510	100
M10	2730554	1,140	100
M12	2730555		

DADO

Con flangia
zigrinata.

NUT

Hexagon
flange nut
serrated.



Filettatura Thread	Codice Code BZE	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2710501	0,800	200
M 8	2710502	0,730	100
M10	2710503	1,190	100
M12	2710504		

Filettatura Thread	Codice Code BZF	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2720055	0,600	200
M 8	2720502	0,935	200
M10	2720503		
M12	2720504		

Filettatura Thread	Codice Code IX	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2730055	0,600	200
M 8	2730054	0,935	200
M10	2730503		
M12	2730504		

RONDELLE

Piane.

WASHERS

Flats.



Filettatura Thread	Codice Code BZE	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2710801	0,200	200
M 8	2710802	0,180	100
M10	2710803	0,410	100
M12	2710804		

Filettatura Thread	Codice Code BZF	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2720400		
M 8	2720404		
M10	2720402	0,410	100
M12	2720403		

Filettatura Thread	Codice Code IX	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2730101		
M 8	2720401	0,180	100
M10	2730103		
M12	2730104		

RONDELLE

Grower.

WASHERS

Locks.



Filettatura Thread	Codice Code BZE	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2710851	0,090	100
M 8	2710852	0,150	100
M10	2710853	0,240	100
M12	2710854		

Filettatura Thread	Codice Code BZF	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2720450		
M 8	2720451	0,150	100
M10	2720452	0,240	100
M12	2720904		

Filettatura Thread	Codice Code IX	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2730450		
M 8	2730451	0,150	100
M10	2730452	0,240	100
M12	2730453		

RONDELLE

Dentellate.

WASHERS

External teeth.



Filettatura Thread	Codice Code BZE	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2710901	0,030	100
M 8	2710902	0,060	100
M10	2710903	0,100	100
M12	2710905		

Filettatura Thread	Codice Code IX	kg/conf. kg/pack.	Conf.pz Pack.pcs
M 6	2730901		
M 8	2730501	0,060	100
M10	2730902		
M12	2730905		