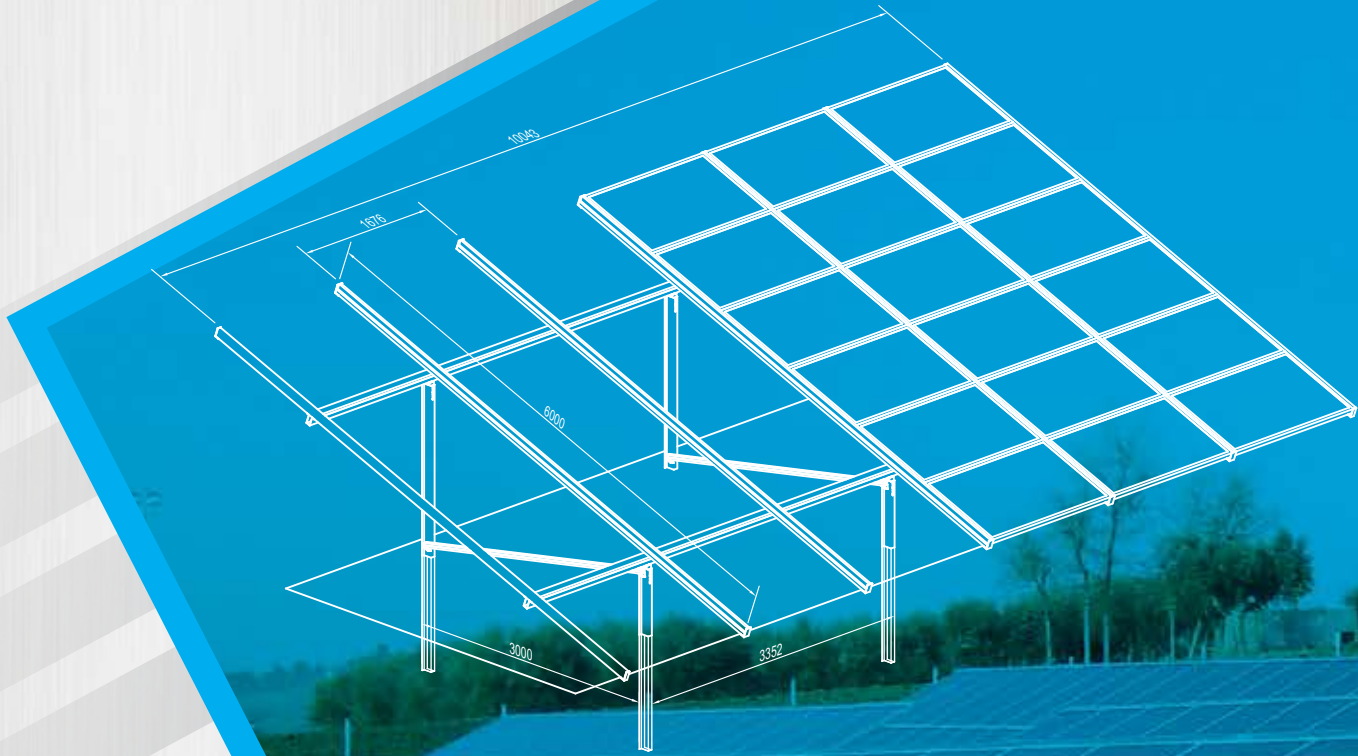
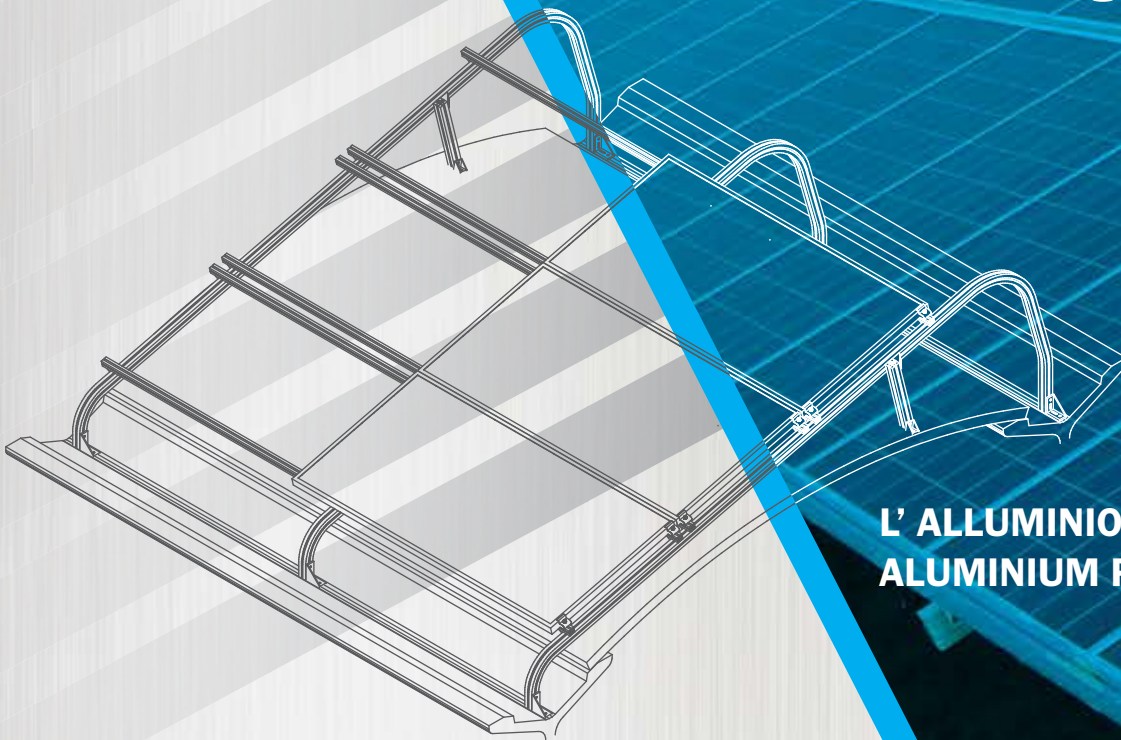


**ARI**  
metal

 **Dierre**  
GROUP



**Strutture in alluminio naturale  
per supporto di pannelli fotovoltaici**  
*PV modules mounting system*



**L' ALLUMINIO DI SISTEMA®  
ALUMINIUM PROFILE SYSTEM®**





**L' ALLUMINIO DI SISTEMA<sup>®</sup>**  
**PER STRUTTURE DI SUPPORTO PANNELLI FOTOVOLTAICI**  
**ALUMINIUM PROFILE SYSTEM<sup>®</sup>**  
**FOR PV MODULES**





Fondata nel 1992 ARI METAL progetta e costruisce direttamente oltre il 90% del proprio programma di vendita. Questa è la miglior garanzia di versatilità e rapidità di produzione. Su un'area di 6000 metri quadrati (2500 coperti) vengono effettuate oltre 50.000 ore all'anno di costruzioni meccaniche.

### L'ALLUMINIO DI SISTEMA per moduli fotovoltaici

Negli ultimi cinque anni, abbiamo progettato e costruito sotto strutture per moduli fotovoltaici, in alluminio per più di 100 MWp. Un produttore esperto di strutture di supporto che offre anche installatori professionali per il montaggio; i nostri sistemi uniscono dimensionamento strutturale, tempo molto breve di montaggio, efficienza e prezzi interessanti.

L'alluminio ha proprietà metallurgiche e tecnologiche molto specifiche caratterizzate da questi elementi:

- Leggerezza
- Ottima resistenza agli agenti atmosferici
- Buona tenacità e resistenza meccanica anche a bassissime temperature

Nel 2011 abbiamo realizzato una nuova serie di staffe di supporto (brevettate) adatte al fissaggio dei moduli sulla lamiera grecata; denominate "staffe a molla" sono realizzate in acciaio inox, permettono una drastica riduzione sia del costo per KWp sia dei tempi di montaggio.



*ARI METAL founded in 1992 designs and manufactures directly more than 90% of its products. This ensures great versatility and production rapidity. Mechanical engineering are performed for more than 50.000 hours per year on an area of 6000 square metres (2500 covered square metres).*

### ALUMINIUM PROFILE SYSTEM for PV modules

*In the last five years ARI METAL has designed and manufactured aluminium understructures for photovoltaic modules for more than 100 MWp. ARI METAL asserts itself as a skilled manufacturer of supporting structures offering also professional installers for the assembly. Our systems combine structural sizing, short assembly time, efficiency and competitive prices.*

*The aluminium has very specific metallurgical and technological properties characterised by the following elements:*

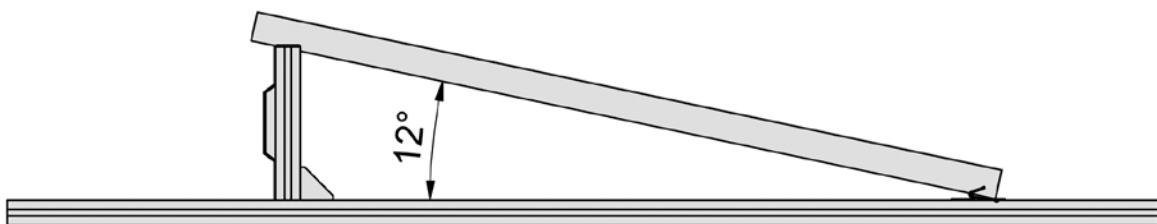
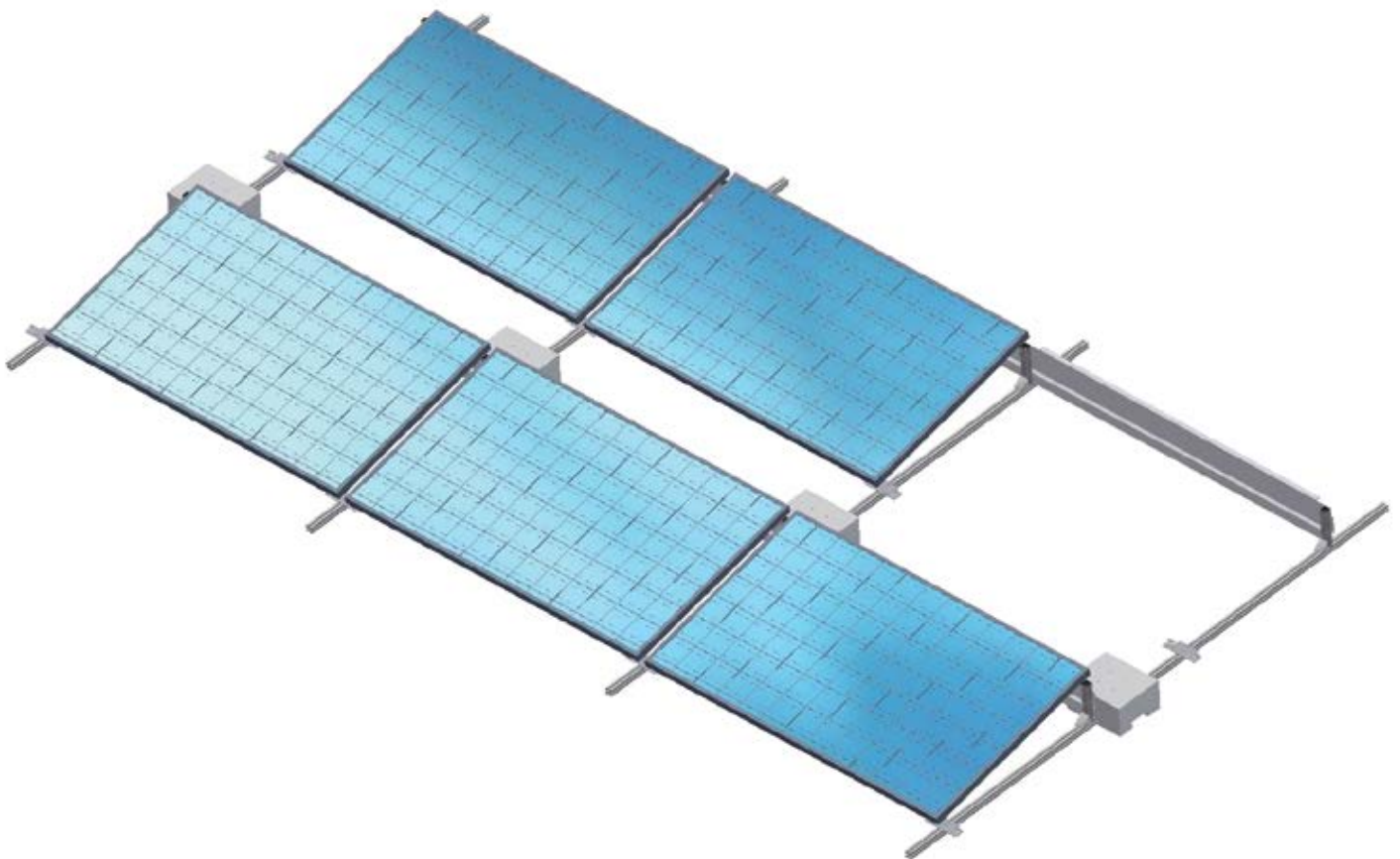
- Lightness
- Optimum resistance to the atmospheric agents
- Good toughness and mechanical strength even at very low temperatures

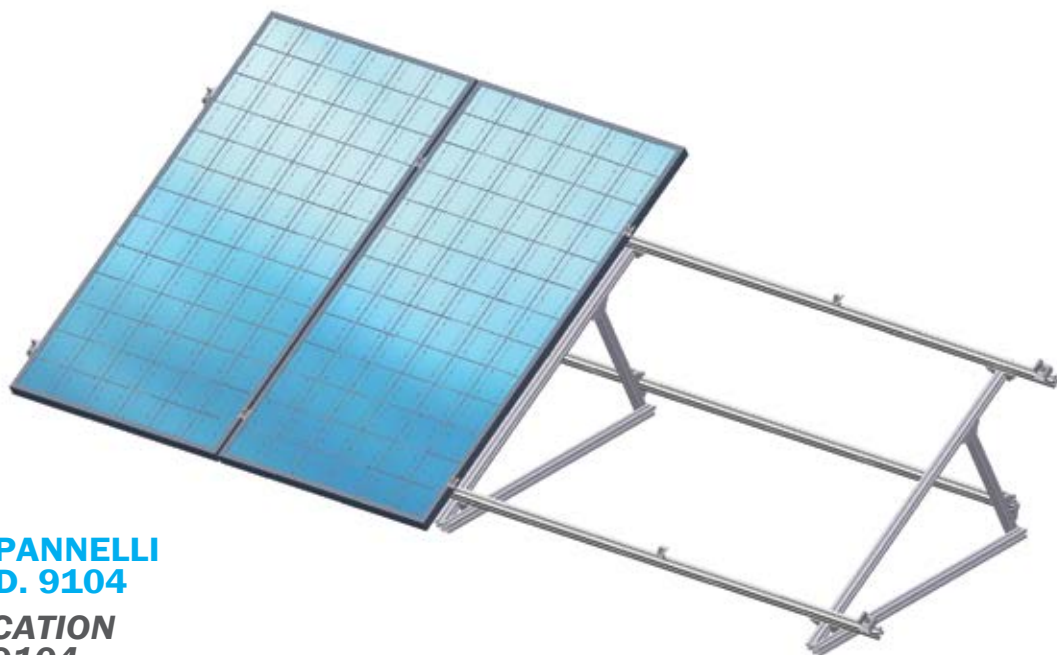
*In 2011 ARI METAL has created a new series of patented supporting brackets suitable for the module installation on corrugated sheet. These supporting brackets called "spring brackets" are carried out in stainless steel and allow a considerable reduction both in assembly time and costs per Kwp.*





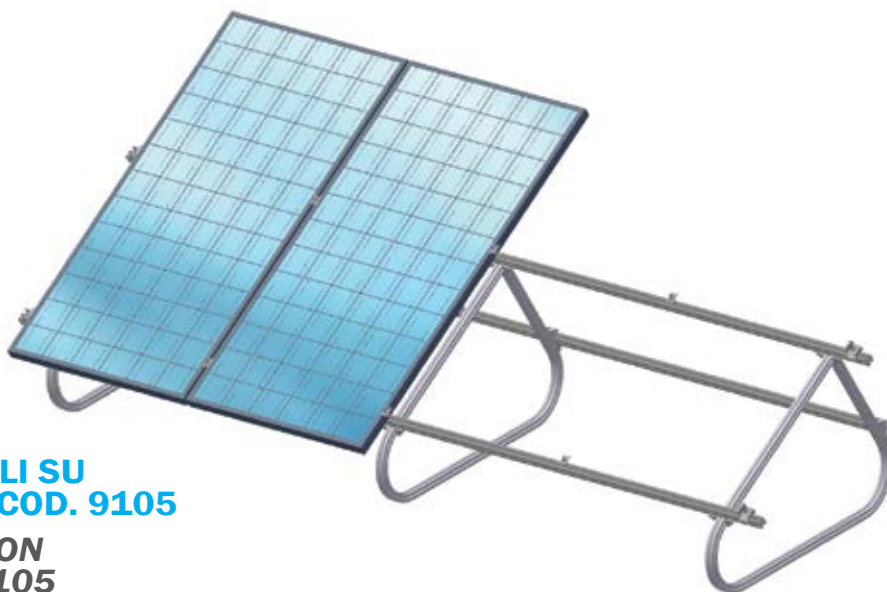
**CENTINA CARENATA ZAVORRABILE**  
**IDEALE PER TETTI PIANI**  
**BALLASTABLE STRENGTHENED RIB**  
**SUITABLE FOR FLAT ROOFS**





**APPLICAZIONE PANNELLI  
SU CENTINE COD. 9104**

**MODULE APPLICATION  
ON RIBS CODE 9104**

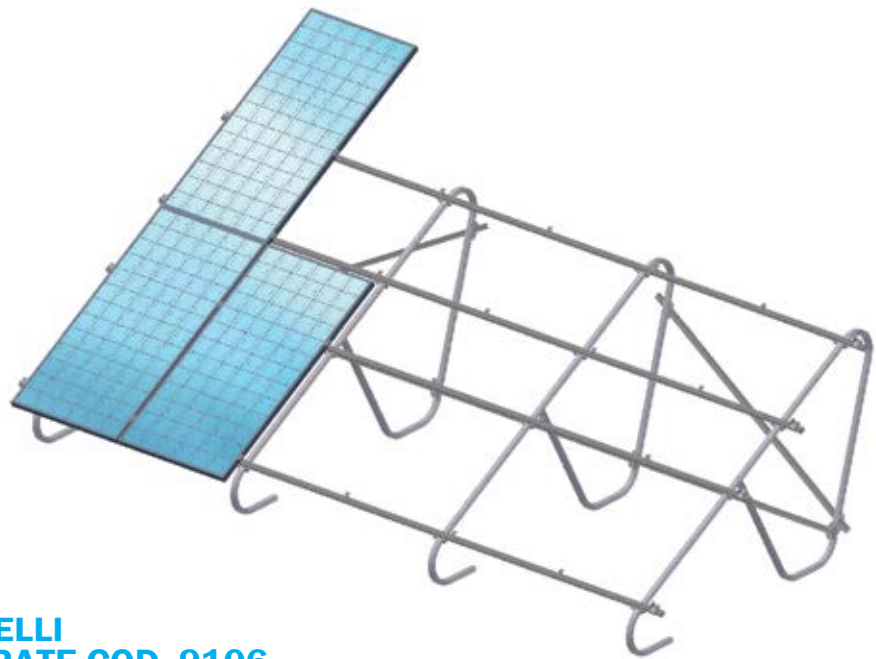


**APPLICAZIONE PANNELLI SU  
CENTINE CALANDRATE COD. 9105**

**MODULE APPLICATION ON  
BENDING RIBS CODE 9105**







**APPLICAZIONE PANNELLI  
SU CENTINE CALANDRATE COD. 9106**  
**MODULE APPLICATION ON  
BENDING RIBS CODE 9106**





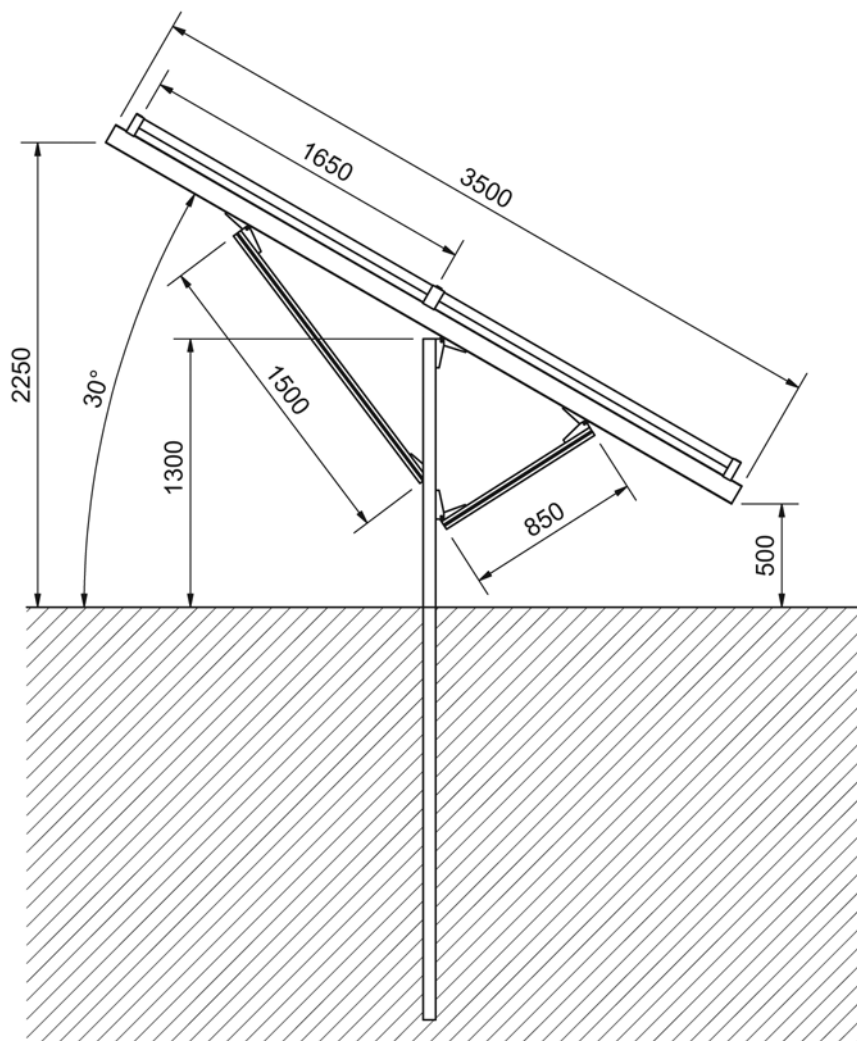
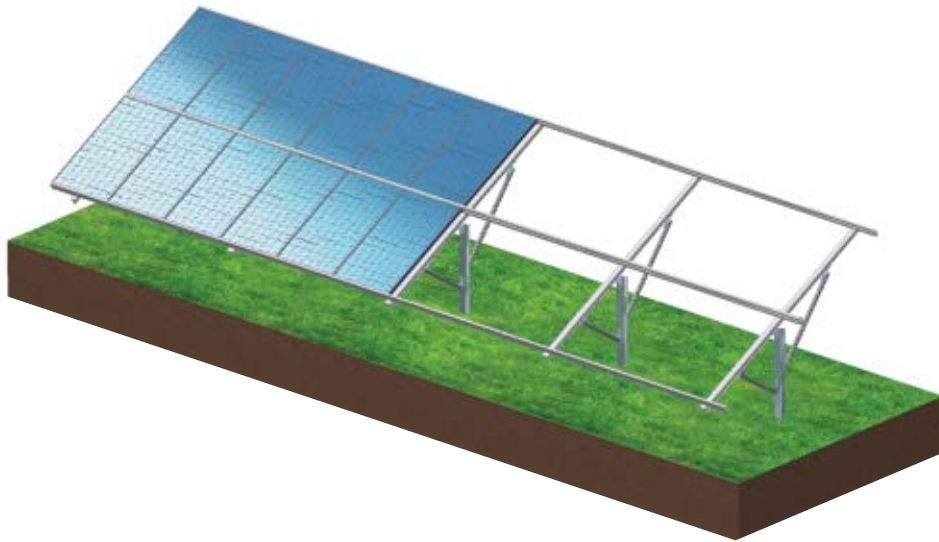
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**ARISOL**  
**STRUTTURE PER PARCHI FOTOVOLTAICI**  
**ARISOL**  
**GROUND STRUCTURES FOR PV MODULES**

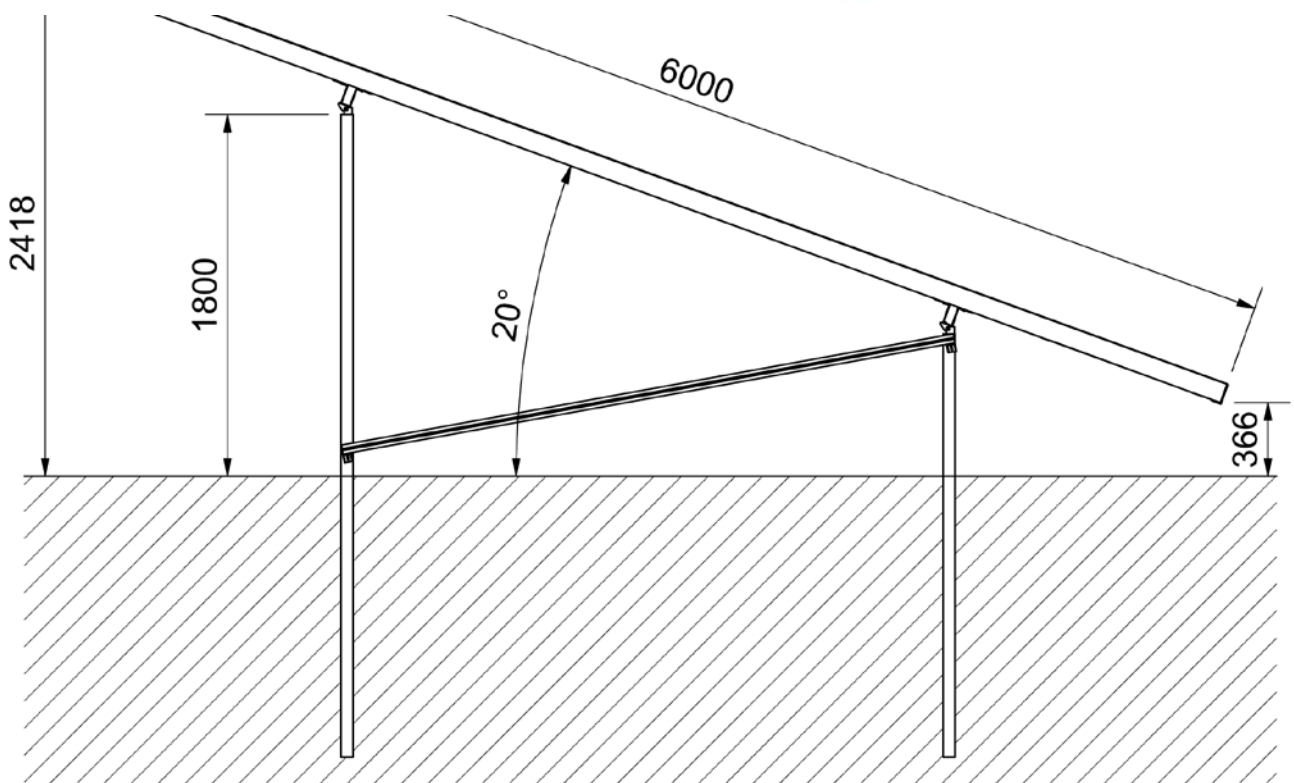
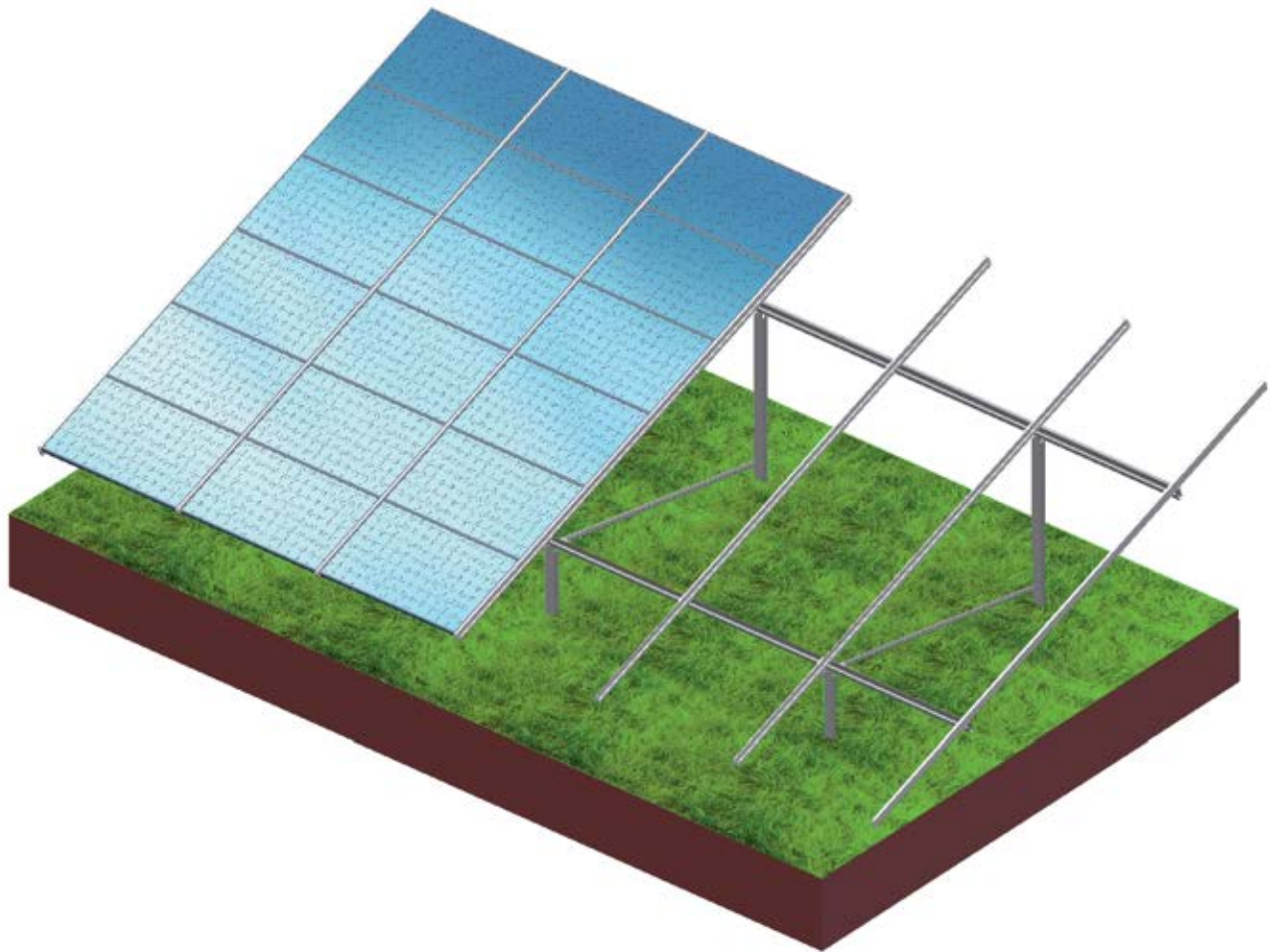




# ARISOL



# ARISOL XL

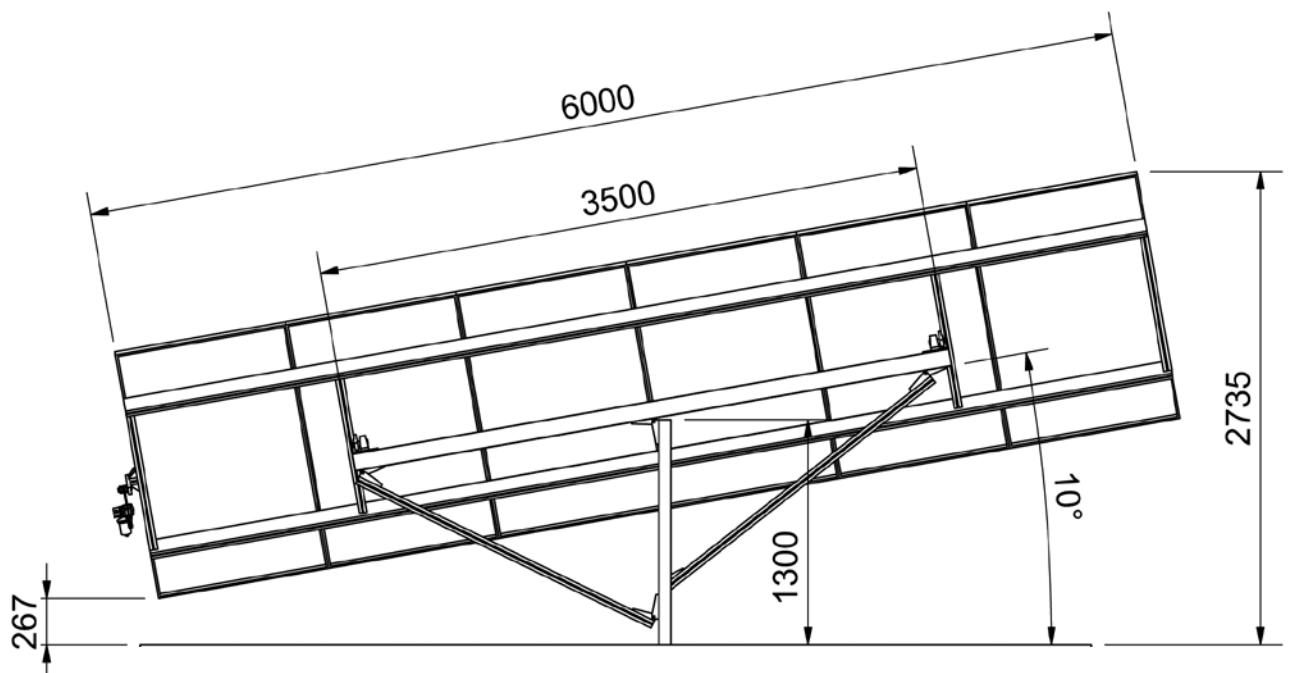
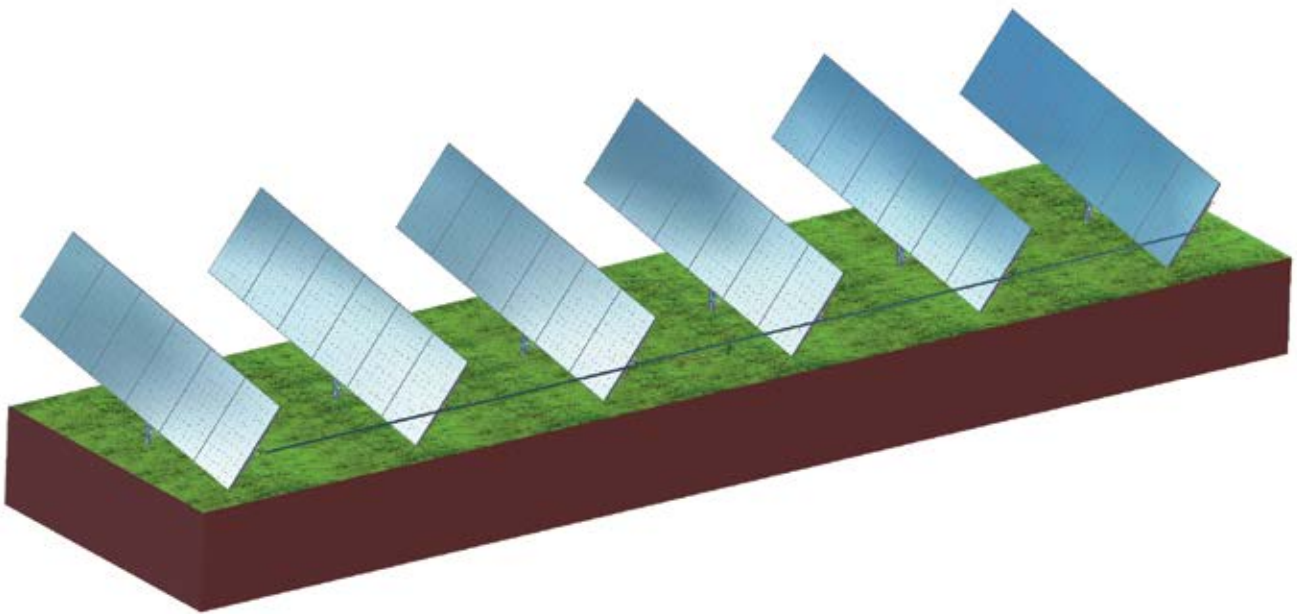




## INSEGUITORE MONOASSIALE 60° / 10° / 60° SINGLE-AXIS SOLAR TRACKER 60° / 10° / 60°

Inseguitore solare modulare monoasse con inclinazione 60°/10°/60° predisposto per 36 moduli fotovoltaici (dimensioni medie 1000x1700 mm) sovrapposti e movimentati mediante attuatore lineare da 24V. Fornitura componenti o installato.

Modular single-axis solar tracker with inclination 60°/10°/60° prearranged for 36 photovoltaic modules (average dimensions 1000x1700 mm) overlapped and handled by linear 24V actuator. Component delivery or already installed.



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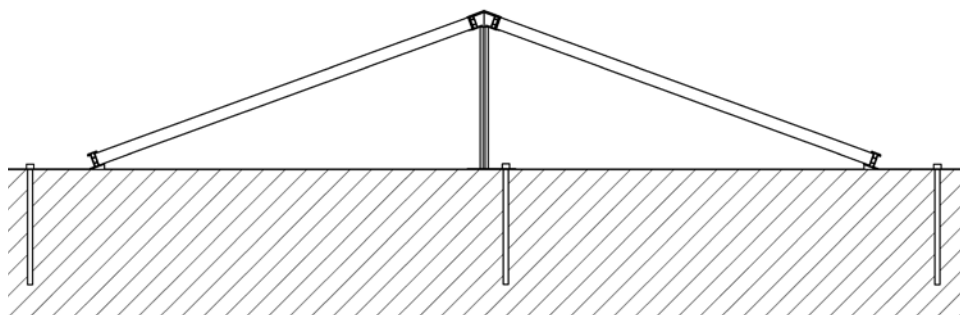
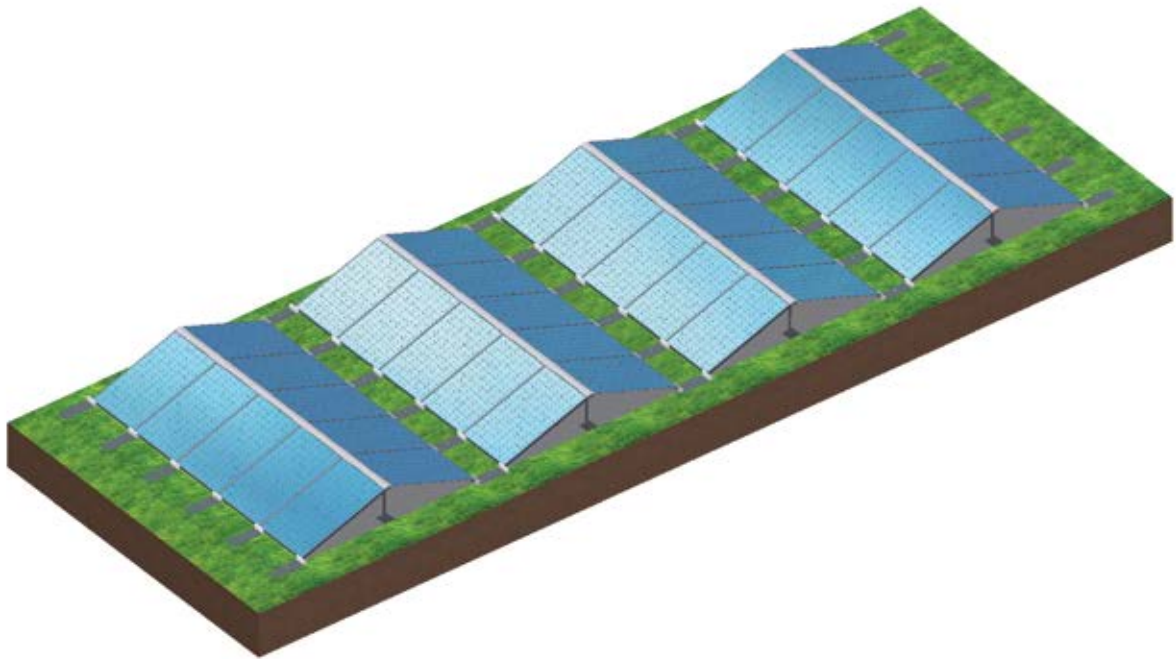
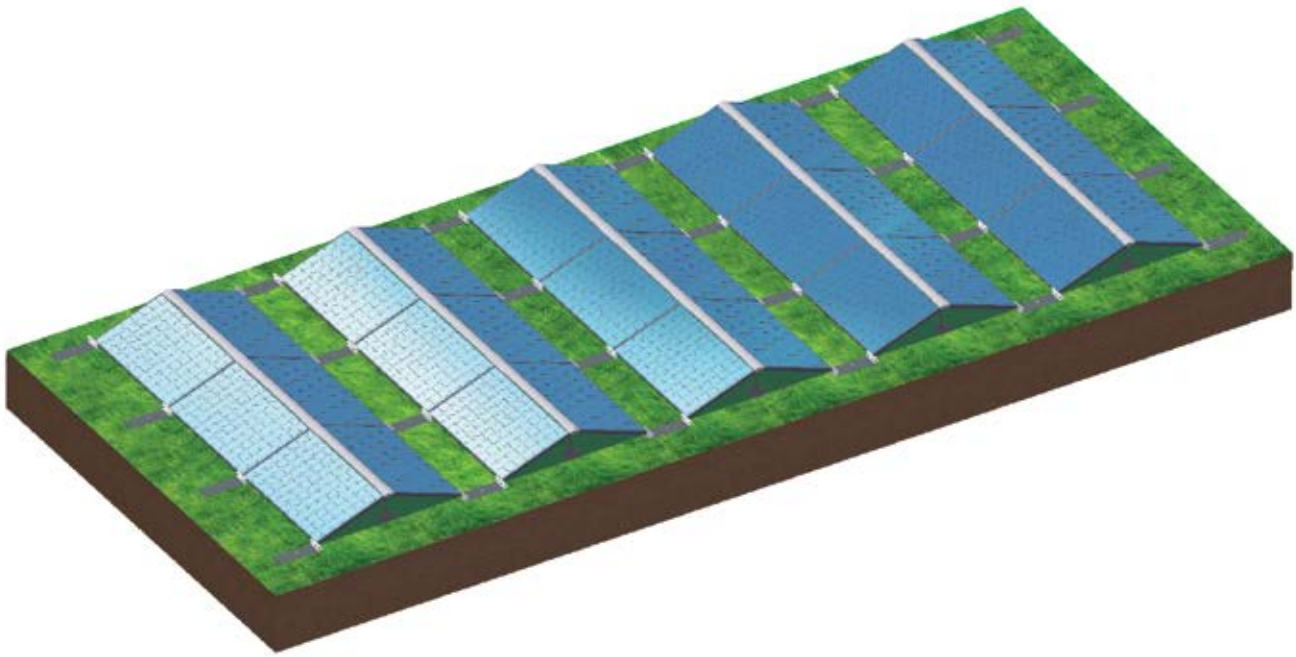
## **TETTO A TERRA** **STRUTTURE PER IMPIANTI CON ESPOSIZIONE EST/OVEST**

### **GROUND ROOF** **STRUCTURES FOR PV MODULES WITH EAST/WEST EXPOSURE**



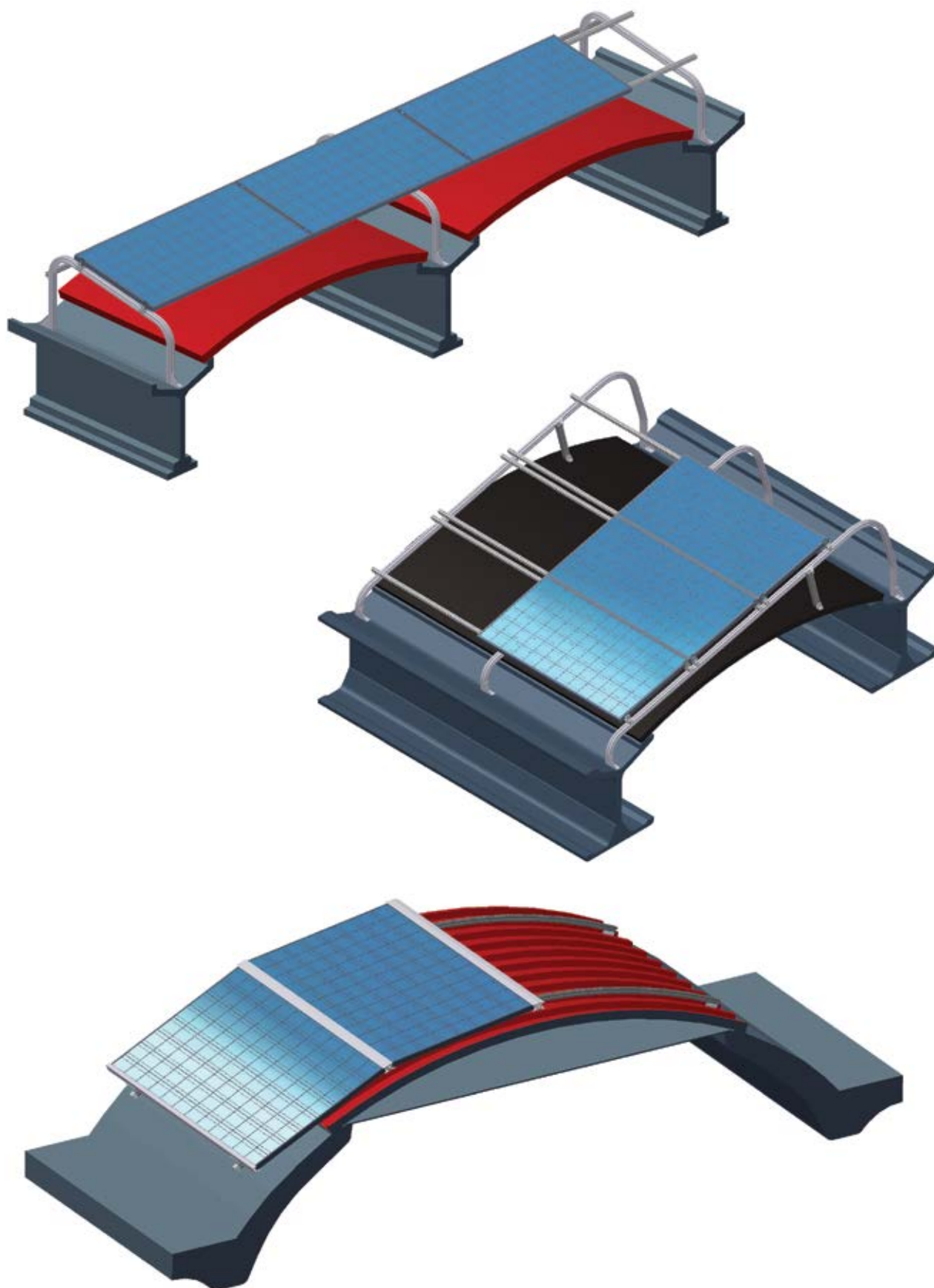


## TETTO A TERRA GROUND ROOF



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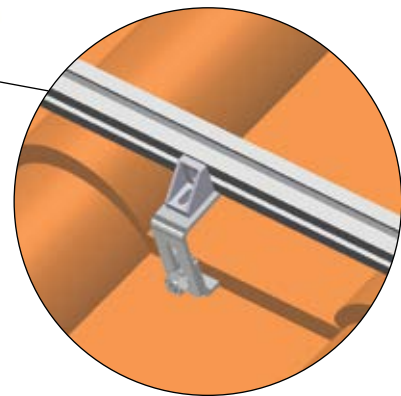
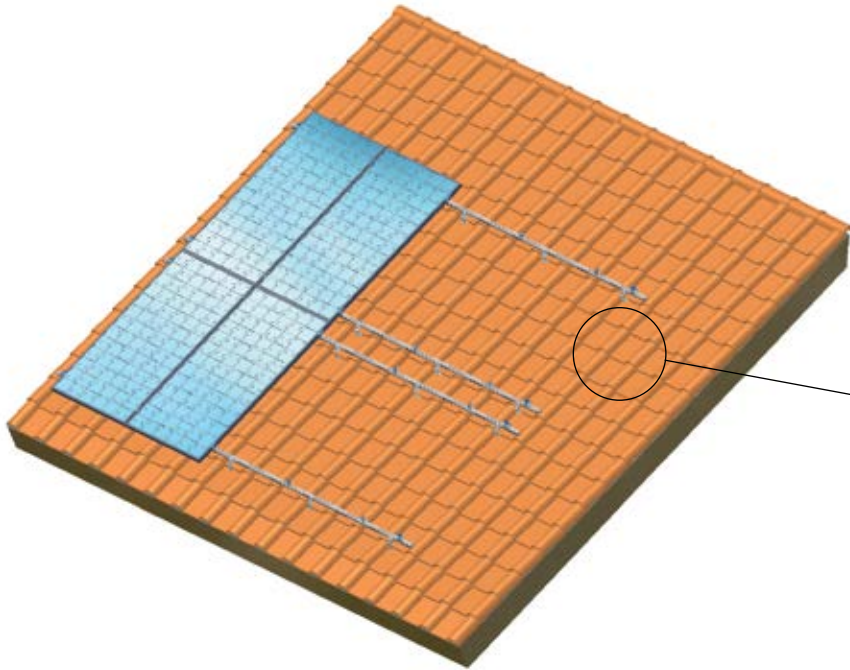
## **CENTINE SPECIALI PER TETTI INDUSTRIALI** **SPECIAL RIBS FOR INDUSTRIAL ROOFS**



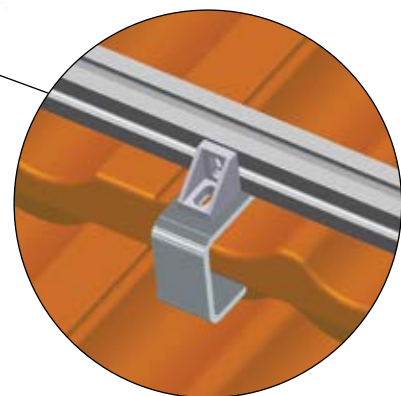
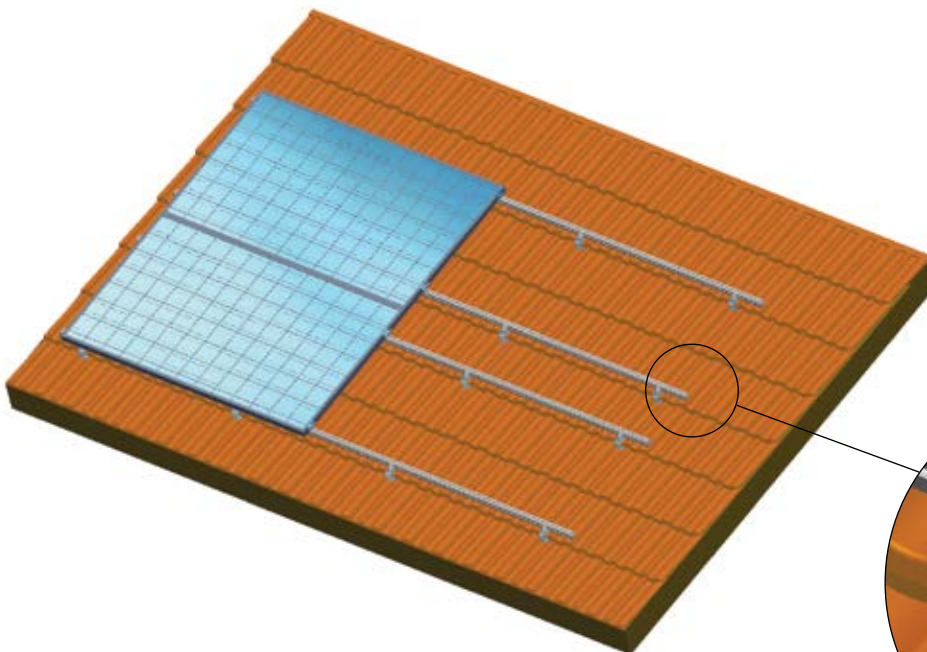


**APPLICAZIONE MODULI  
SU TETTO A FALDA CON TEGOLE**

**MODULE APPLICATION ON  
PITCHED ROOF WITH TILES**

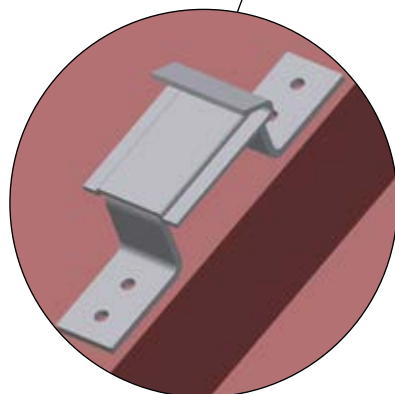
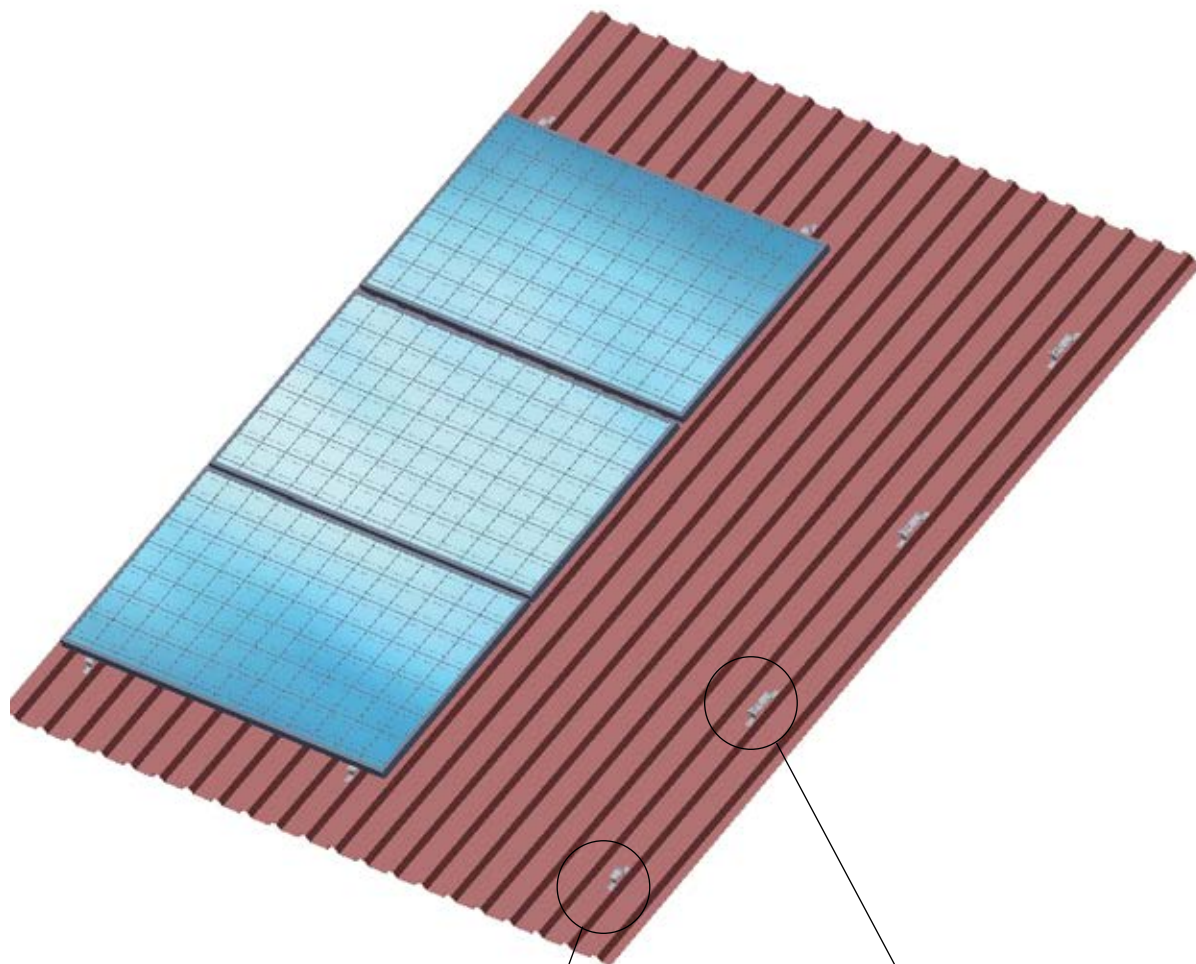


**Cod. 3145**

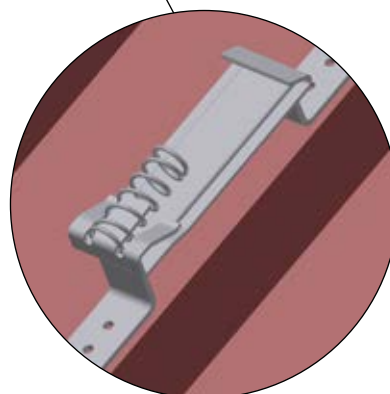


**Cod. 3149**

**APPLICAZIONE MODULI SU LAMIERA GRECATA  
POSIZIONAMENTO SOLO ORIZZONTALE**  
**MODULE APPLICATION ON CORRUGATED SHEET  
ONLY LANDSCAPE POSITIONING**



**Cod. 3170**

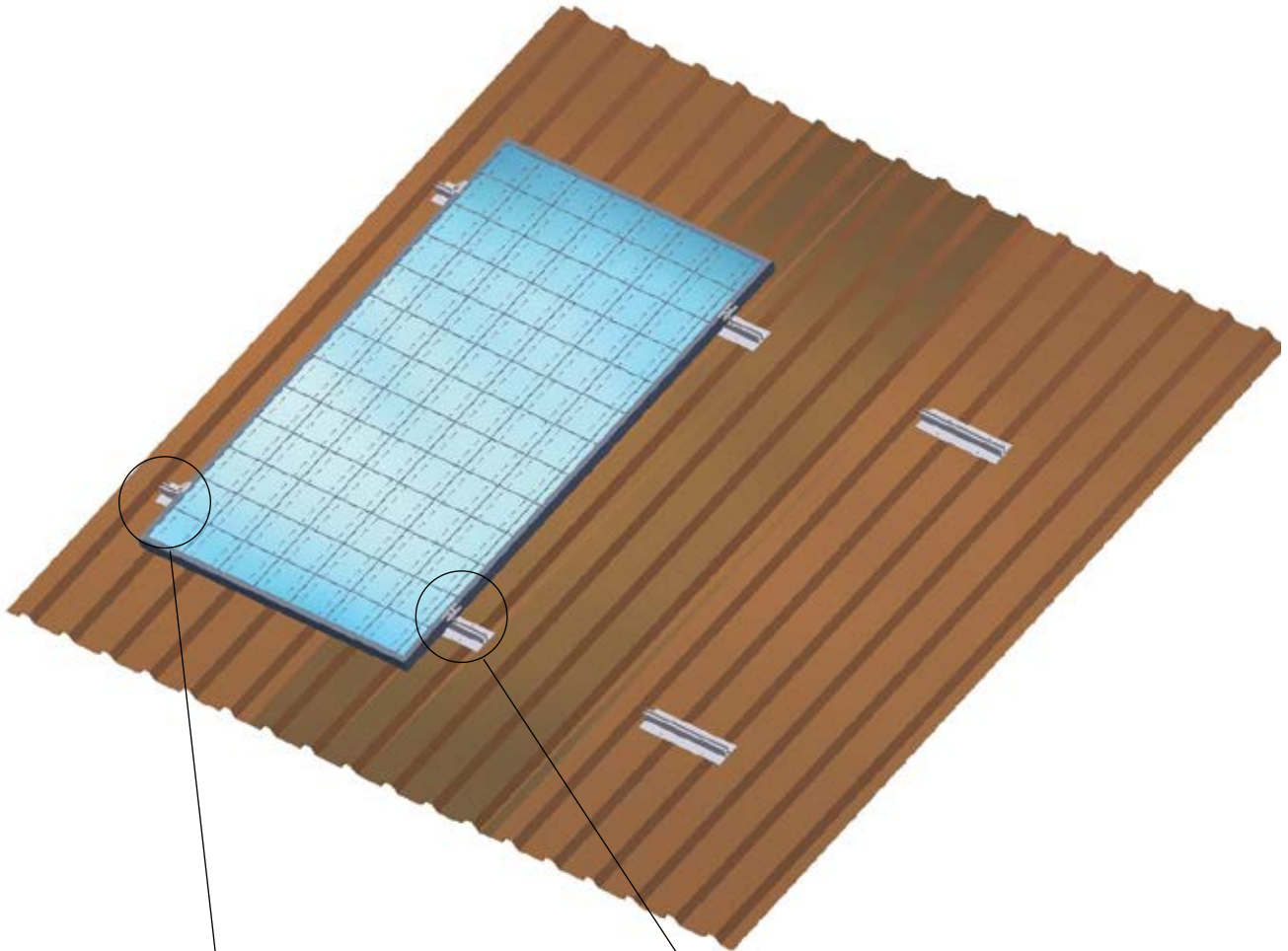


**Cod. 3171**

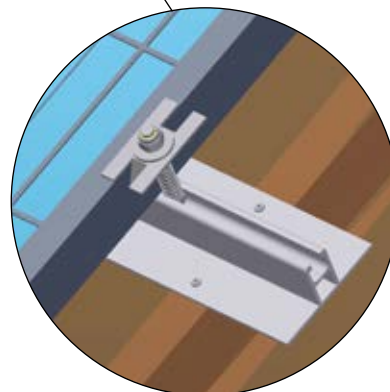


**APPLICAZIONE MODULI SU LAMIERA GRECATA  
POSIZIONAMENTO SOLO VERTICALE**

**MODULE APPLICATION ON CORRUGATED SHEET  
ONLY PORTRAIT POSITIONING**



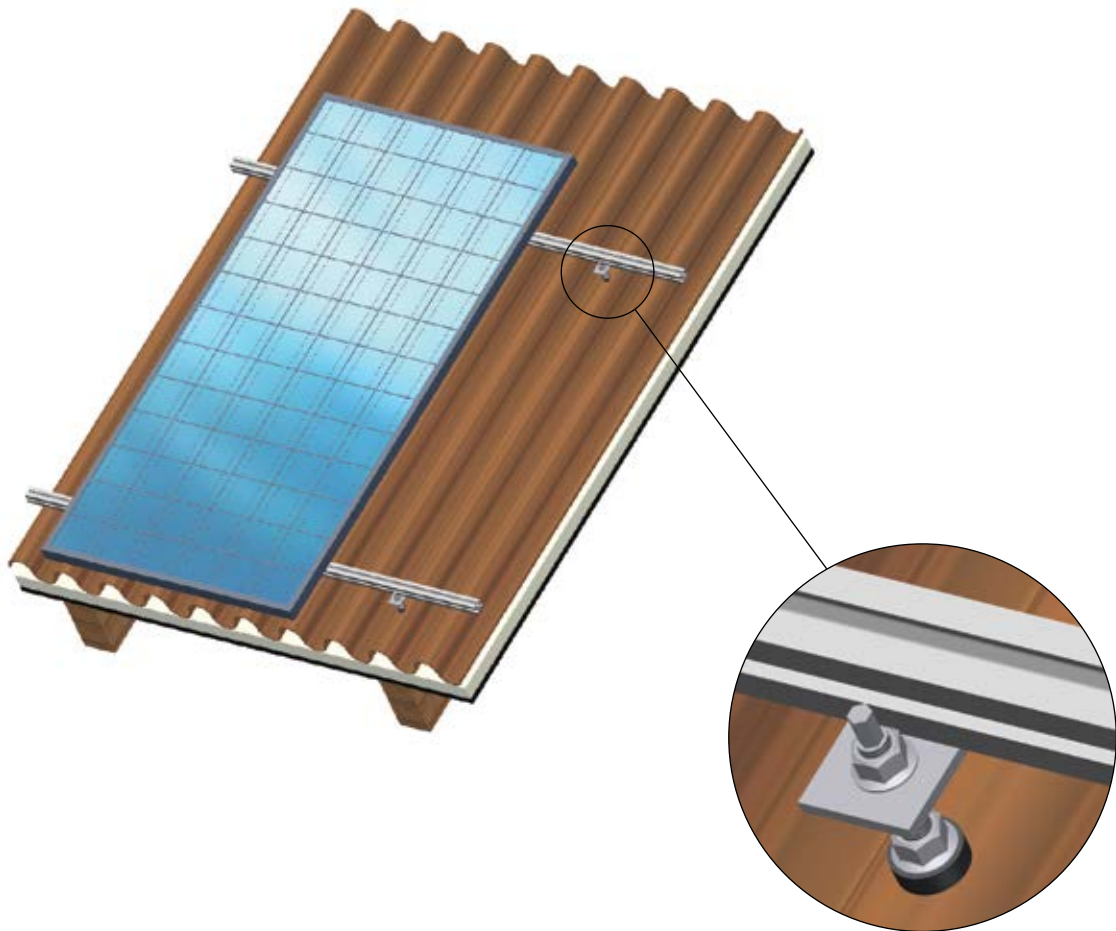
**Cod. 3128**  
**Cod. 1230**



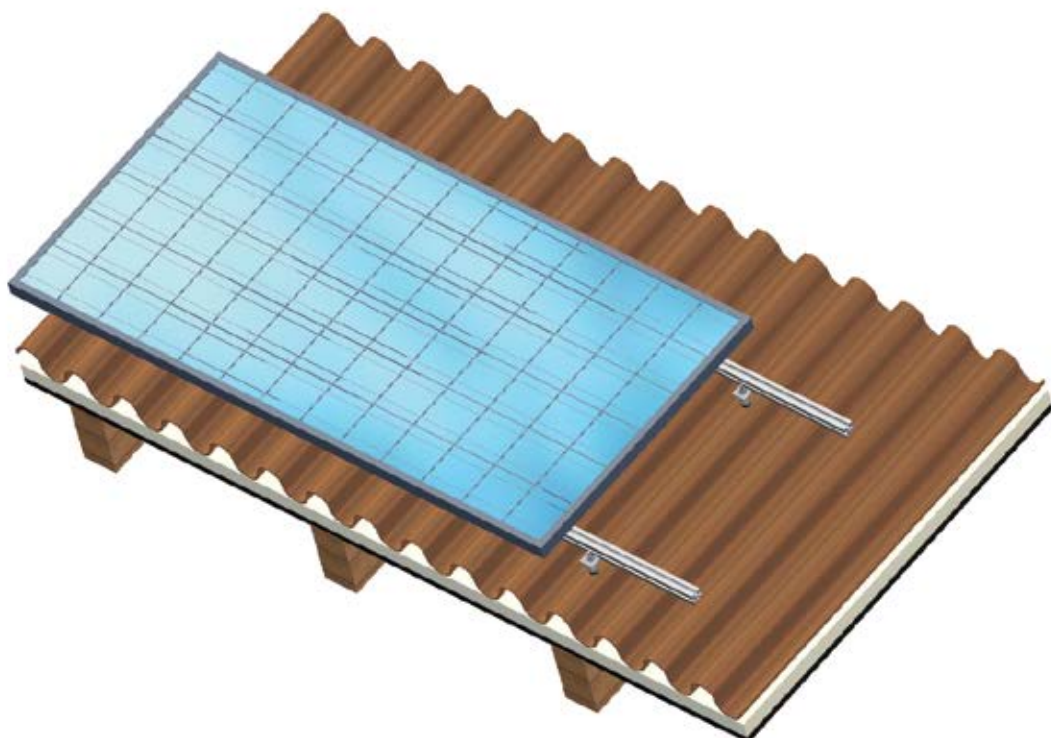
**Cod. 3153**  
**Cod. 1230**

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**APPLICAZIONE TIRAFONDI SU COPERTURE ONDULATE**  
**ANCHOR BOLT APPLICATION ON UNDULATED COVERING**



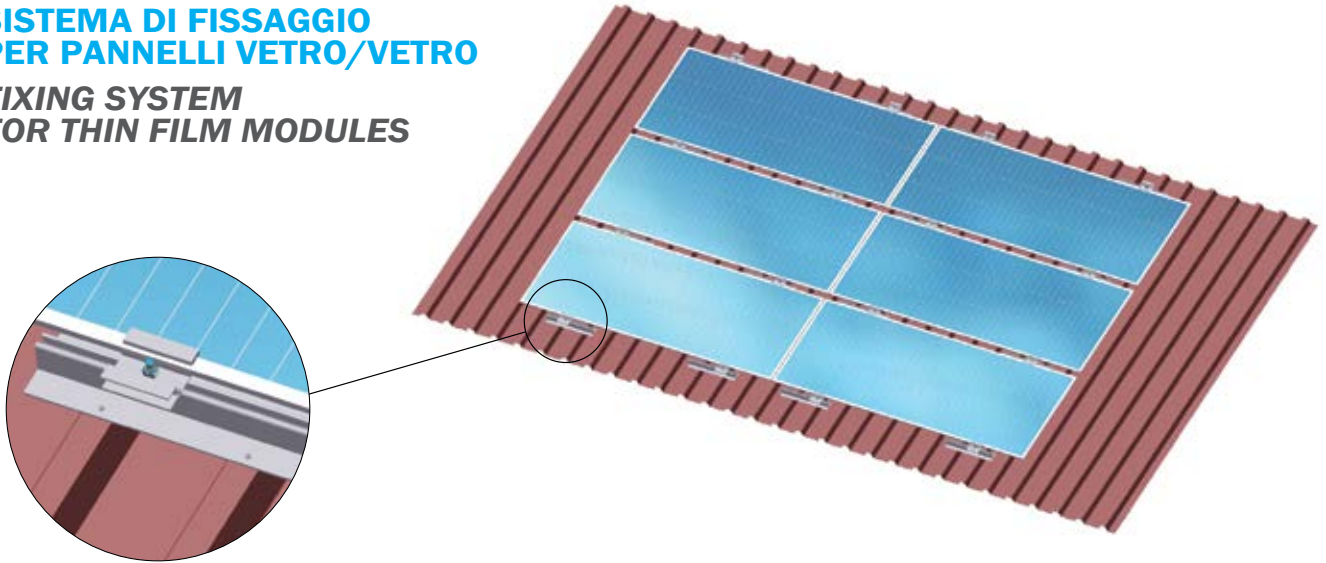
**Cod. 3141**  
**Cod. 3139**





## SISTEMA DI FISSAGGIO PER PANNELLI VETRO/VETRO

### FIXING SYSTEM FOR THIN FILM MODULES



#### Codice 3156

**Descrizione**

Staffa vetro/vetro

**Materiale**

Alluminio e gomma

**Peso**

65 g

**Note**

Per pannelli spessore da 6,5 a 7,5 mm.

**Description**

Thin Film bracket

**Material**

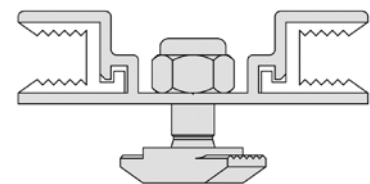
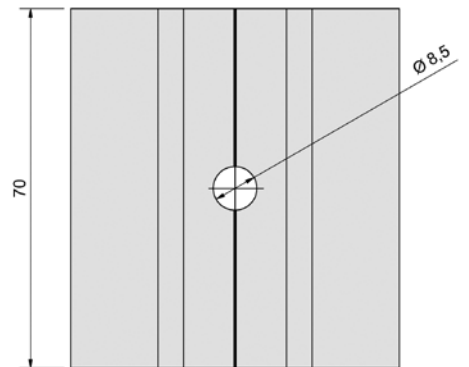
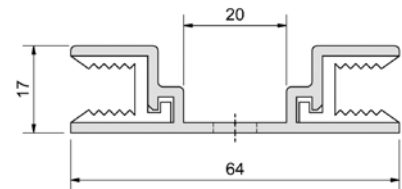
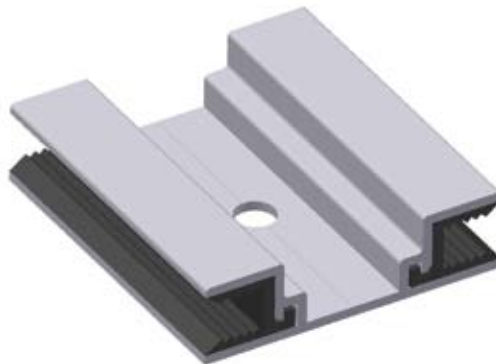
Aluminium and rubber

**Weight**

65 g

**Notes**

For modules with thickness from 6,5 up to 7,5 mm.



#### Codice 3157

**Descrizione**

Staffa vetro/vetro con viteria

**Materiale**

Alluminio e gomma

**Peso**

85 g

**Note**

Per pannelli spessore da 6,5 a 7,5 mm.

**Description**

Thin Film bracket with bolts and screws

**Material**

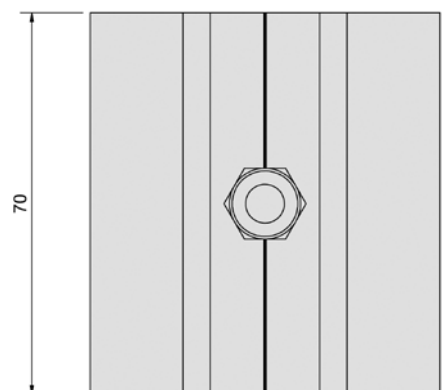
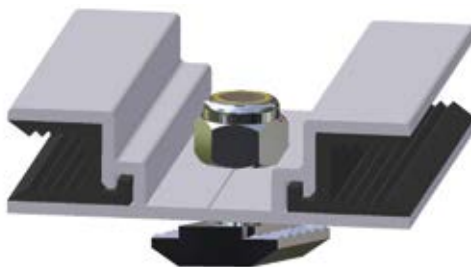
Aluminium and rubber

**Weight**

85 g

**Notes**

For modules with thickness from 6,5 up to 7,5 mm.



# STRUTTURE IN ALLUMINIO IN KIT PER SUPPORTO DI MODULI FOTOVOLTAICI

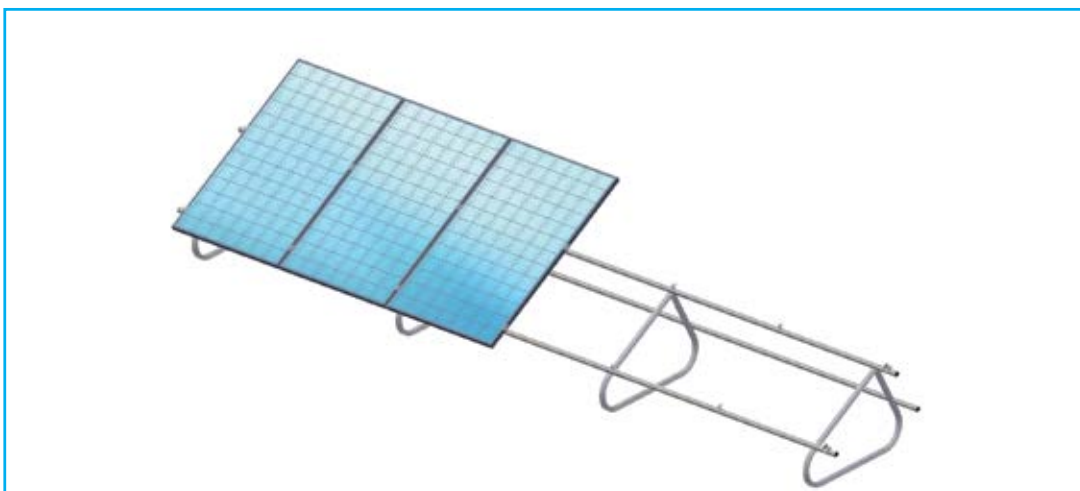
## ALUMINIUM STRUCTURE KIT TO SUPPORT PV MODULES

Le continue richieste da parte delle grandi reti di distribuzione di supporti per piccoli impianti (fino a 20 KWp) destinati all'uso domestico, ci hanno portato alla progettazione e realizzazione di kit di fissaggio moduli in scatole di montaggio. Disponibili per tetti a falda e tetti piani, i kit contengono tutto il necessario per l'installazione dei moduli fotovoltaici; il libretto di istruzioni dettagliato "passo-passo" consente all'installatore di operare con grande precisione senza possibilità di errori.

*The continuous requests of the large retailers for little plants (up to 20 KWp) for domestic use lead ARI METAL to design and manufacture simple module fixing kits. These kits are available for flat and pitched roofs and they contain all what is required for the installation of photovoltaic modules. A very detailed instruction manual allows the operator to install the modules correctly without problems.*

### MONTAGGIO MODULI CON LATO LUNGO IN VERTICALE SU TETTO PIANO CON CENTINE PREASSEMBLATE

#### ASSEMBLY OF MODULES WITH THE LONGEST SIDE POTRAIT POSITION ON FLAT ROOF WITH PRE-ASSEMBLED RIBS



- Larghezza massima modulo mm 850
- Larghezza massima modulo mm 1070
- Kit di montaggio da 1 a 10 pannelli

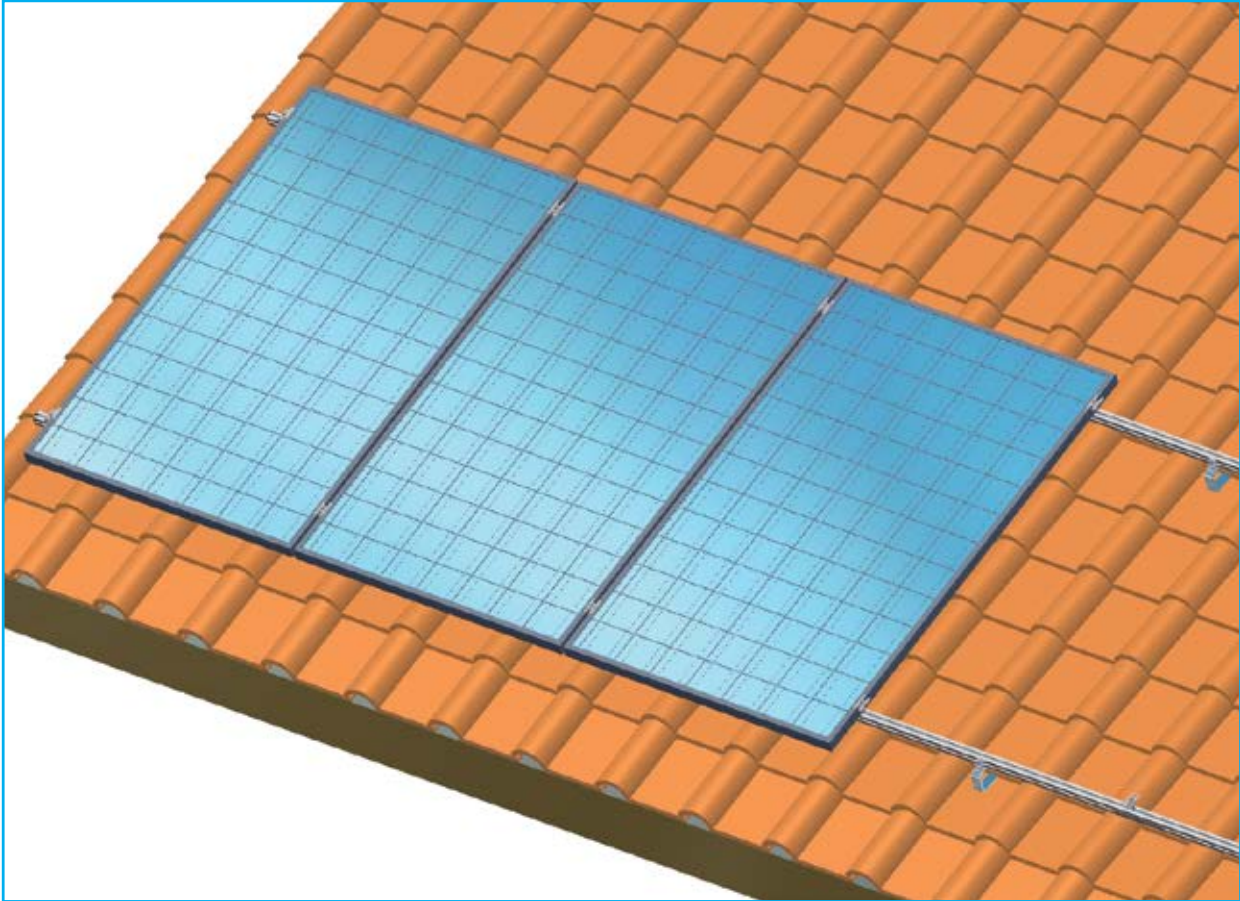
- Maximum width of the module 850mm
- Maximum width of the module 1070mm
- Assembly kit from 1 to 10 modules

N. PANNELLI/MODULES	Pannello fino a 850 mm Module up to 850 mm		Pannello fino a 1070 mm Module up to 1070 mm	
	H max mm 40	H max mm 50	H max mm 40	H max mm 50
10 pannelli/modules	31K4013010	31K13010	31K4001010	31K01010
9 pannelli/modules	31K4013009	31K13009	31K4001009	31K01009
8 pannelli/modules	31K4013008	31K13008	31K4001008	31K01008
7 pannelli/modules	31K4013007	31K13007	31K4001007	31K01007
6 pannelli/modules	31K4013006	31K13006	31K4001006	31K01006
5 pannelli/modules	31K4013005	31K13005	31K4001005	31K01005
4 pannelli/modules	31K4013004	31K13004	31K4001004	31K01004
3 pannelli/modules	31K4013003	31K13003	31K4001003	31K01003
2 pannelli/modules	31K4013002	31K13002	31K4001002	31K01002
1 pannelli/modules	31K4013001	31K13001	31K4001001	31K01001



## MONTAGGIO MODULI CON LATO LUNGO IN VERTICALE SU TETTO A FALDA

### ASSEMBLY OF MODULES WITH THE LONGEST SIDE PORTRAIT POSITION ON PITCHED ROOF



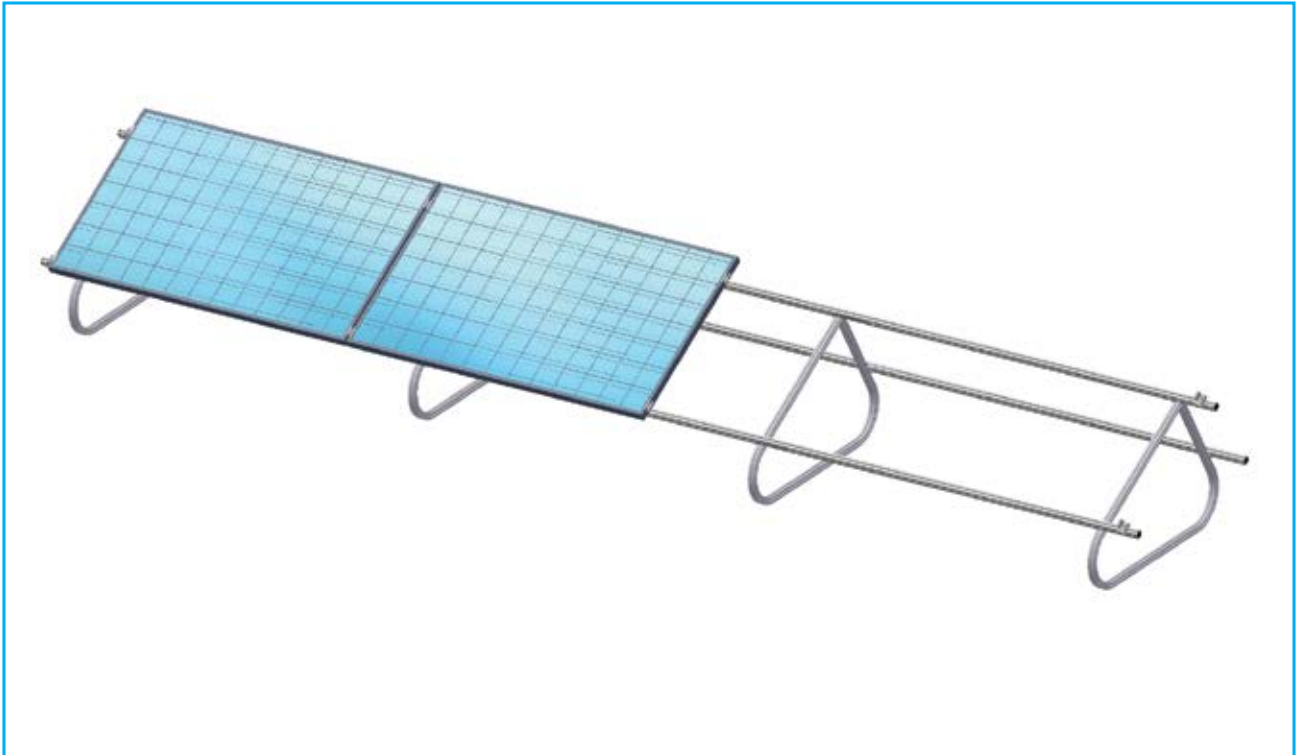
- Larghezza massima modulo mm 850
- Larghezza massima modulo mm 1070
- Kit di montaggio da 1 a 10 pannelli

- Maximum width of the module 850mm
- Maximum width of the module 1070mm
- Assembly kit from 1 to 10 modules

N. PANNELLI/MODULES	Pannello fino a 850 mm Module up to 850 mm		Pannello fino a 1070 mm Module up to 1070 mm	
	H max mm 40	H max mm 50	H max mm 40	H max mm 50
10 pannelli/modules	31K4014010	31K14010	31K4002010	31K02010
9 pannelli/modules	31K4014009	31K14009	31K4002009	31K02009
8 pannelli/modules	31K4014008	31K14008	31K4002008	31K02008
7 pannelli/modules	31K4014007	31K14007	31K4002007	31K02007
6 pannelli/modules	31K4014006	31K14006	31K4002006	31K02006
5 pannelli/modules	31K4014005	31K14005	31K4002005	31K02005
4 pannelli/modules	31K4014004	31K14004	31K4002004	31K02004
3 pannelli/modules	31K4014003	31K14003	31K4002003	31K02003
2 pannelli/modules	31K4014002	31K14002	31K4002002	31K02002
1 pannelli/modules	31K4014001	31K14001	31K4002001	31K02001

## MONTAGGIO MODULI CON LATO LUNGO ORIZZONTALE SU TETTO PIANO CON CENTINE PREASSEMBLATE

### ASSEMBLY MODULES WITH THE LONGEST SIDE LANDSCAPE POSITION ON FLAT ROOF WITH PRE-ASSEMBLED RIBS



- Lunghezza massima modulo mm 1700
- Kit di montaggio da 1 a 10 pannelli

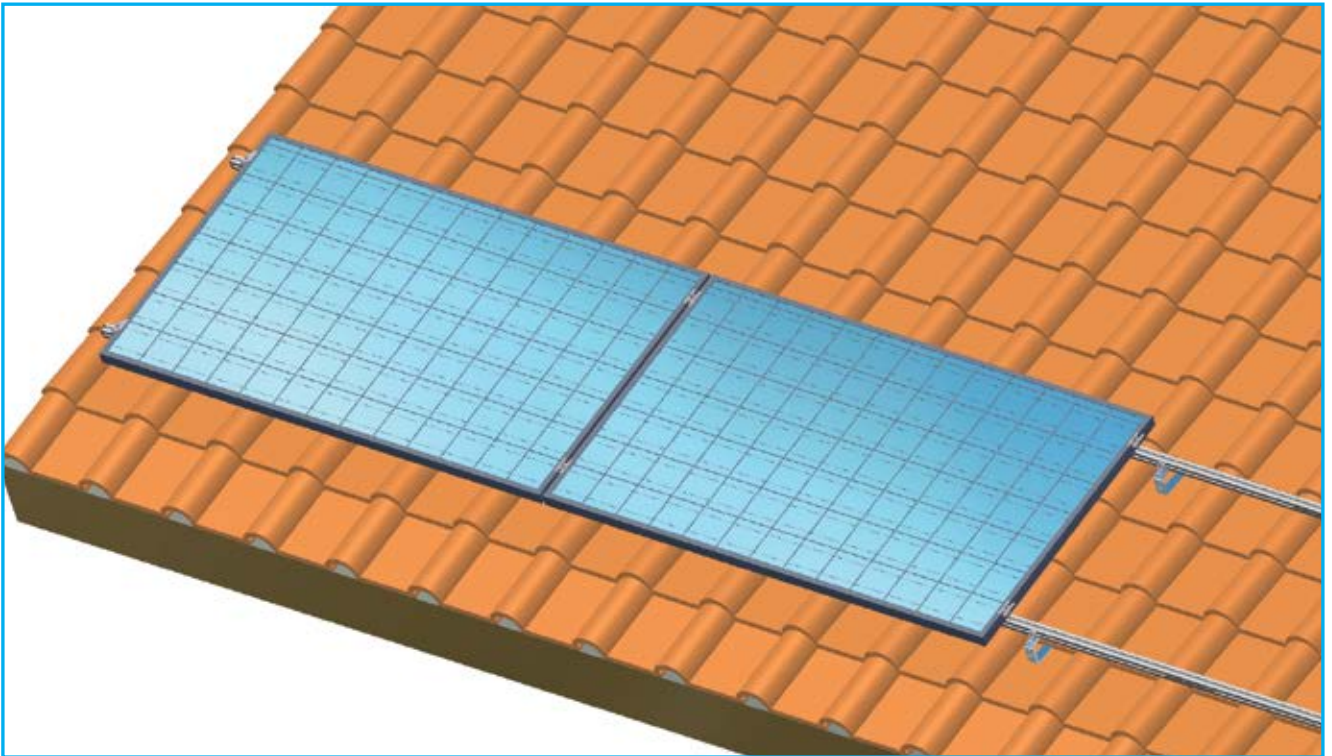
- Maximum length of the module 1700mm
- Assembly kit from 1 to 10 modules

N. PANNELLI/ N. MODULES	Pannello fino a 1700 mm Module up to 1700 mm	
	H max mm 40	H max mm 50
10 pannelli/modules	31K4016010	31K16010
9 pannelli/modules	31K4016009	31K16009
8 pannelli/modules	31K4016008	31K16008
7 pannelli/modules	31K4016007	31K16007
6 pannelli/modules	31K4016006	31K16006
5 pannelli/modules	31K4016005	31K16005
4 pannelli/modules	31K4016004	31K16004
3 pannelli/modules	31K4016003	31K16003
2 pannelli/modules	31K4016002	31K16002
1 pannelli/modules	31K4016001	31K16001



**MONTAGGIO MODULI CON LATO LUNGO ORIZZONTALE  
SU TETTO A FALDA**

**ASSEMBLY MODULES WITH THE LONGEST SIDE  
LANDSCAPE POSITION ON PITCHED ROOF**



- Lunghezza massima modulo mm 1700
- Kit di montaggio da 1 a 10 pannelli

- Maximum length of the module 1700mm
- Assembly kit from 1 to 10 modules

N. PANNELLI/ N. MODULES	Pannello fino a 1700 mm Module up to 1700 mm	
	H max mm 40	H max mm 50
10 pannelli/modules	31K4017010	31K17010
9 pannelli/modules	31K4017009	31K17009
8 pannelli/modules	31K4017008	31K17008
7 pannelli/modules	31K4017007	31K17007
6 pannelli/modules	31K4017006	31K17006
5 pannelli/modules	31K4017005	31K17005
4 pannelli/modules	31K4017004	31K17004
3 pannelli/modules	31K4017003	31K17003
2 pannelli/modules	31K4017002	31K17002
1 pannelli/modules	31K4017001	31K17001

## KIT ADEGUAMENTO ALTITUDINE PER TETTO PIANO

Tutti i kit sono adeguati al montaggio in zona 1 cioè con un'altitudine sul livello del mare compresa tra 0 e 200 metri. Per le altre zone geografiche e per altitudini maggiori dovranno essere aggiunti più punti di sostegno. Per semplificare terremo conto solo delle altitudini indipendentemente dalle zone geografiche.

1 punto è costituito da 1 centina e relativi accessori per diminuire il passo ed aumentare così la portata.

KIT DA AGGIUNGERE AL KIT BASE

KIT 2 - 3 - 4 PANNELLI/MODULES		
ALTITUDINE s.l.m./HEIGHT amsl		
da mt./from mt.	a mt./to mt.	n° punti in più/n° points to be added
0	200	0
200	600	1
600	1000	2

KIT 5 - 6 PANNELLI/MODULES		
ALTITUDINE s.l.m./HEIGHT amsl		
da mt./from mt.	a mt./to mt.	punti in più/n° points to be added
0	200	0
200	600	2
600	1000	3

## KIT ADEGUAMENTO ALTITUDINE PER TETTO A FALDA

1 punto è costituito da 2 staffe e relativi accessori per diminuire il passo ed aumentare così la portata.

KIT DA AGGIUNGERE AL KIT BASE

KIT 2 - 3 - 4 PANNELLI/MODULES		
ALTITUDINE s.l.m./HEIGHT amsl		
da mt./from mt.	a mt./to mt.	punti in più/n° points to be added
0	200	0
200	600	1
600	1000	2

KIT 5 - 6 PANNELLI/MODULES		
ALTITUDINE s.l.m./HEIGHT amsl		
da mt./from mt.	a mt./to mt.	punti in più/n° points to be added
0	200	0
200	600	2
600	1000	3

## ALTITUDE ADJUSTMENT KIT FOR FLAT ROOF

All kits are suitable for the assembly in zone 1, that is in an area with a height above the sea level between 0 and 200 metres. For other geographical areas and for higher altitudes more supporting points are to be added. However only the altitude independently of the geographical areas will be considered.

1 point consists in 1 rib and its relating accessories in order to decrease the step and increase the weight capacity.

KIT TO BE ADDED TO THE BASIC KIT

KIT 7 - 8 - 9 - 10 PANNELLI/MODULES		
ALTITUDINE s.l.m./HEIGHT amsl		
da mt./from mt.	a mt./to mt.	punti in più/n° points to be added
0	200	0
200	600	2
600	1000	3

COD. 31K05001 (per 1 punto/for 1 point)		
cod.	descrizione/description	q.tà/q.ty
9105	centina calandrata a 30° / 30° bending rib	1
3017S	angolare 22x30 vite M6/ angle 22x30 screw M6	3
2456	dado inserto M6/ insert ring nut M6	6
2542	vite inox M6x16/ stainless steel screw M6x16	6

## ALTITUDE ADJUSTMENT KIT FOR PITCHED ROOF

1 point consists in two brackets and relating accessories to decrease the step and increase the weight capacity.

KIT TO BE ADDED TO THE BASIC KIT

KIT 7 - 8 - 9 - 10 PANNELLI/MODULES		
ALTITUDINE s.l.m./HEIGHT amsl		
da mt./from mt.	a mt./to mt.	punti in più/n° points to be added
0	200	0
200	600	2
600	1000	3

COD. 31K05002 (per 1 punto/for 1 point)		
cod.	descrizione/description	q.tà/q.ty
3145	staffa inox / stainless steel bracket	2
3018	angolare 22x30 / angle 22x30	2
2556	vite 8x25 per staffa / screw 8x25 for bracket	2
2546S	vite 8x25 per profilo / Screw 8x25 for profile	2



### Codice 1231S

**Descrizione**

Profilo Al Grezzo 32x32 4 Cave

**Dati tecnici**

Massa lineare:

kg/m 0.778

Sezione:

mm<sup>2</sup> 288

Momento di inerzia a flessione:

cm<sup>4</sup> Ix 2.96 Iy 2.96

Modulo di resistenza a flessione:

cm<sup>3</sup> Wx 1.85 Wy 1.85

Lunghezza barre: 6mt.

**Description**

Profile in rough aluminium 32x32 4 slots

**Technical data**

Linear density:

kg/m 0,778

Section:

mm<sup>2</sup> 288

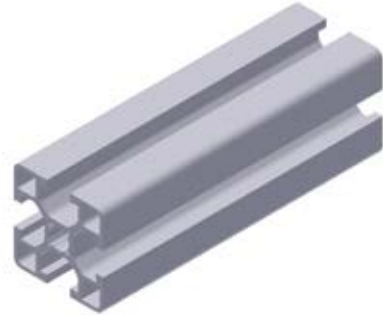
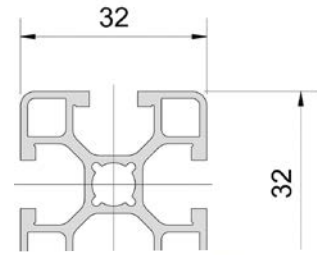
Moment of inertia:

cm<sup>4</sup> Ix 2.96 Iy 2.96

Section modulus:

cm<sup>3</sup> Wx 1.85 Wy 1.85

Bar length: 6mt.



### Codice 1239S

**Descrizione**

Profilo Al Grezzo 45x45 leggero

**Dati tecnici**

Massa lineare:

kg/m 1.547

Sezione:

mm<sup>2</sup> 573

Momento di inerzia a flessione:

cm<sup>4</sup> Ix 10.62 Iy 10.62

Modulo di resistenza a flessione:

cm<sup>3</sup> Wx 4.72 Wy 4.72

Lunghezza barre: 6mt.

**Description**

Profile in rough aluminium 45x45 light

**Technical data**

Linear density:

kg/m 1.547

Section:

mm<sup>2</sup> 573

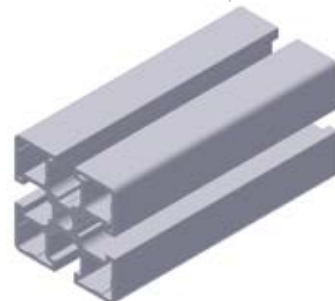
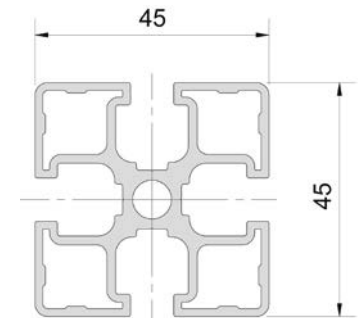
Moment of inertia:

cm<sup>4</sup> Ix 10.62 Iy 10.62

Section modulus:

cm<sup>3</sup> Wx 4.72 Wy 4.7

Bar length: 6mt.



### Codice 1230

**Descrizione**

Profilo al grezzo 32x60

**Dati tecnici**

Massa lineare:

kg/m 0,93

Sezione:

mm<sup>2</sup> 344

**Description**

Profile in rough aluminium 32x60

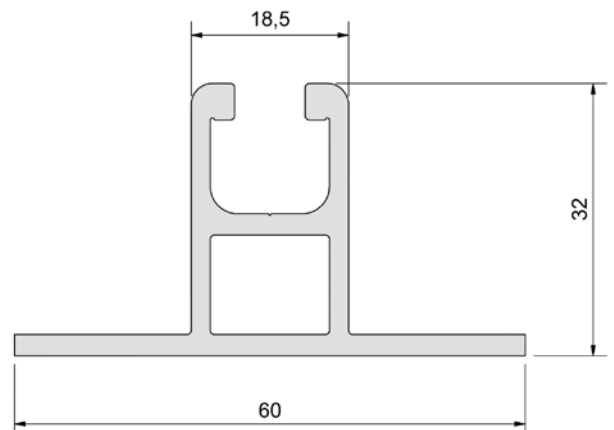
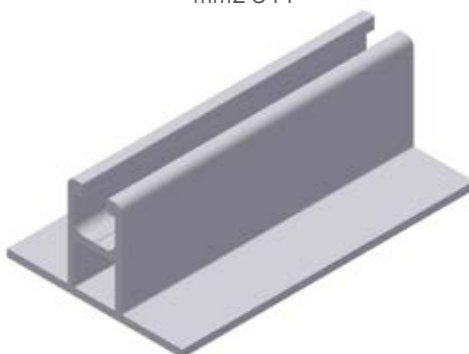
**Technical data**

Linear density:

kg/m 0.93

Section:

mm<sup>2</sup> 344



### Codice 9104

**Descrizione**

Centina angolo variabile  
L1265 32x32 4C ASSEMBLATA

**Peso**

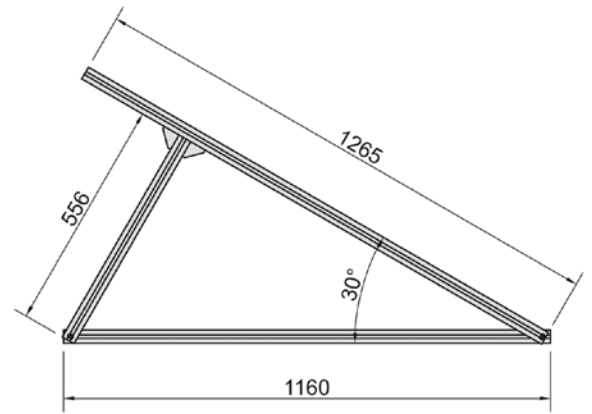
3 Kg

**Description**

Variable angle rib  
L1265 32x32 4C ASSEMBLED

**Weight**

3 Kg



### Codice 9105

**Descrizione**

Centina singola raggiata 30°  
32x32 4C ASSEMBLATA

**Peso**

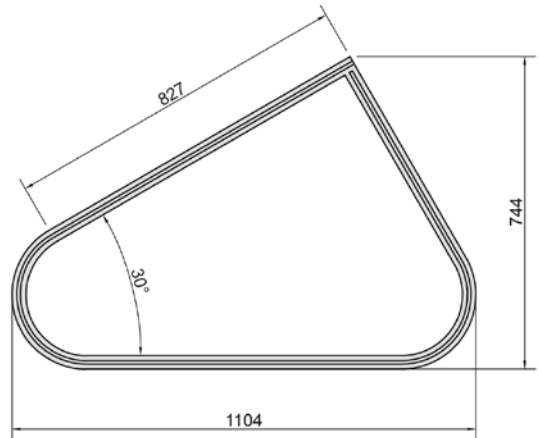
3 Kg

**Description**

Single rib 30°  
32x32 4C ASSEMBLED

**Weight**

3 Kg



### Codice 9106

**Descrizione**

Centina doppia raggiata 30°  
32x32 4C ASSEMBLATA

**Peso**

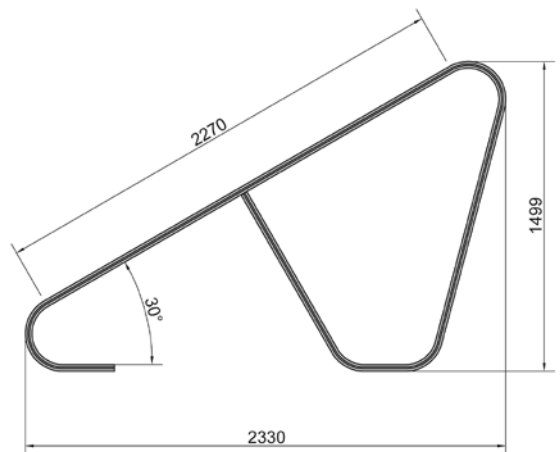
5 Kg

**Description**

Double rib 30°  
32x32 4C ASSEMBLED

**Weight**

5 Kg

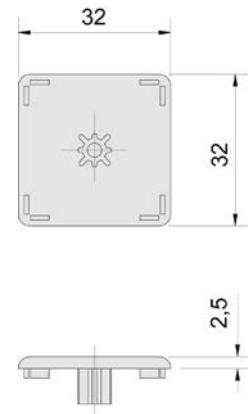




### Codice 2046

**Descrizione**  
Terminale profilo 32x32 4 Cave  
**Materiale**  
Nylon nero

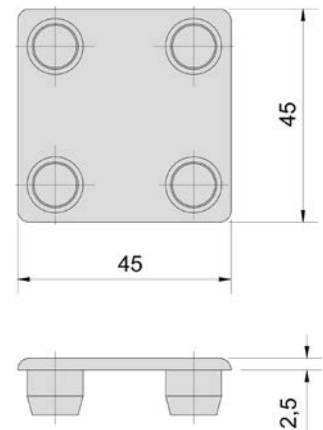
**Description**  
Profile end part 32x32 4 slots  
**Material**  
Black nylon



### Codice 2055

**Descrizione**  
Terminale profilo 45x45  
**Materiale**  
Nylon nero

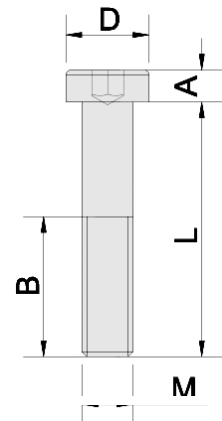
**Description**  
Profile end part 45x45 4 slots  
**Material**  
Black nylon



### Codice 2542 - 2543 - 2546- 2551 - 2556 - 2578 - 2579

**Descrizione**  
Vite con testa cilindrica con esagono  
incassato a testa ribassata.  
Disponibili in confezioni commerciali  
da 50 pezzi.  
**Materiale**  
Acciaio Inox

**Description**  
Socket head cap screw  
Available in packet of 50 pieces.  
**Material**  
Stainless steel



Cod.	M	A	B	D	L	Materiale Material	per profilo to profile
2542	M6	4	L	10	16	Acciaio Inox A2 70	32x32 4C
2543	M8	5	L	13	10	Acciaio Inox A2 70	32x32 4C
2546	M8	5	L	13	16	Acciaio Inox A2 70	32x32 4C
2551	M8	5	L	13	20	Acciaio Inox A2 70	45x45
2556	M8	5	L	13	40	Acciaio Inox A2 70	45x45
2578	M6	6	L	10	20	Acciaio Inox A2 70	32x32 4C

**Codice 2591 - 2597  
2598 - 2599 - 2600**

**Descrizione**

Vite testa a martello

**Materiale**

Acciaio Zincato

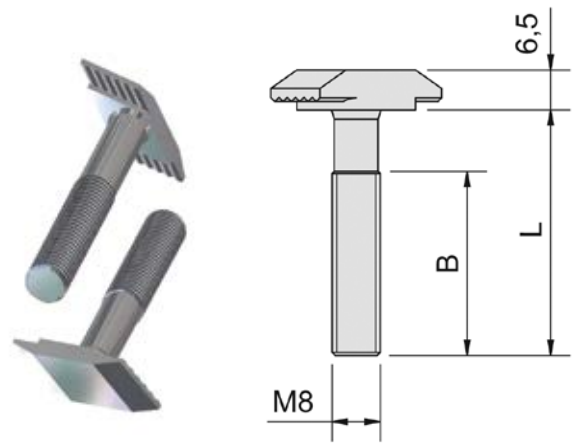
**Description**

Hammer head screw

**Material**

Galvanized steel

Codice	B	L
2591	18	20
2597	40	50
2598	50	60
2599	30	40
2600	60	70



**Codice 2629**

**Descrizione**

Dado quadro

Disponibile in confezioni commerciali da 50 pezzi

**Materiale**

Acciaio Inox

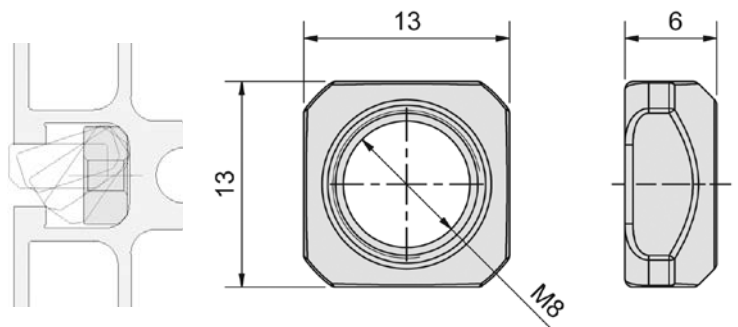
**Description**

Square nut

Available in packet of 50 pieces.

**Material**

Stainless steel



**Codice 2630**

**Descrizione**

Dado autobloccante M8

**Materiale**

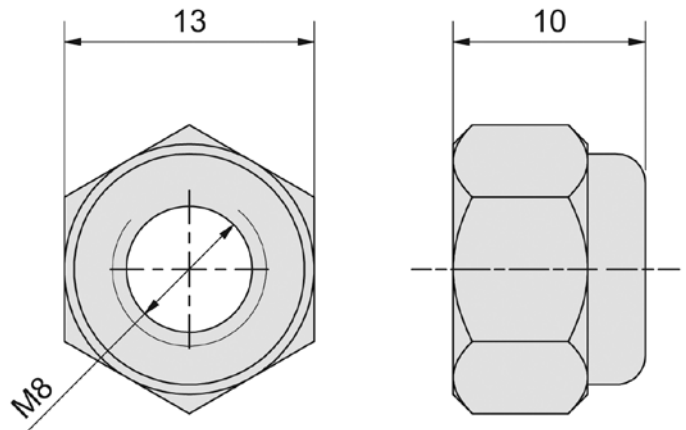
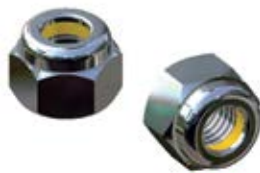
Acciaio Inox

**Description**

Self-locking nut M8

**Material**

Stainless steel



**Codice 2635**

**Descrizione**

Dado autobloccante ribassato

**Materiale**

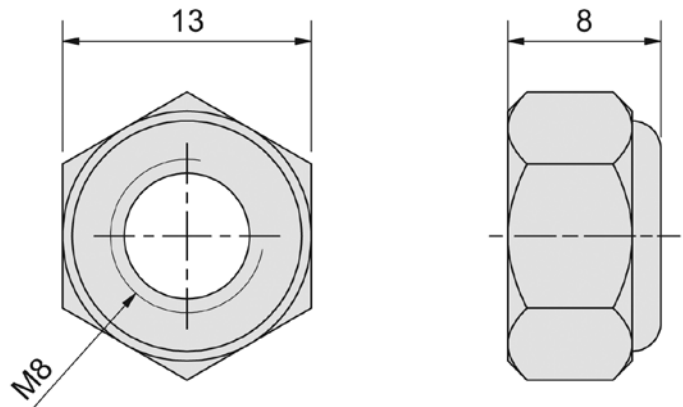
Acciaio Inox

**Description**

Self-locking nut, thin type

**Material**

Stainless steel

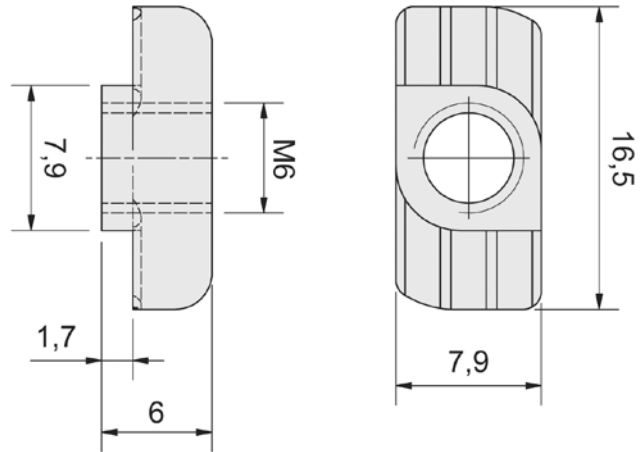




**Codice 2456**

**Descrizione**  
Inserto 32 4C M6  
**Materiale**  
Acciaio zincato

**Description**  
Insert 32 4C M6  
**Material**  
Galvanized steel



**Codice 2671**

**Descrizione**  
Rondella quadra 13x13

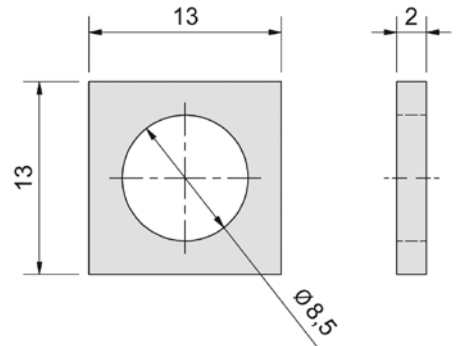
**Note**  
Accessorio indispensabile per distribuire correttamente il precarico della vite su una superficie più ampia. Disponibili in confezioni commerciali da 50 pezzi.

**Materiale**  
Acciaio Inox

**Description**  
Square washer 13x13

**Notes**  
Essential accessory to distribute correctly the screw preloading on a wider surface. Available in packet of 50 pieces.

**Material**  
Stainless steel



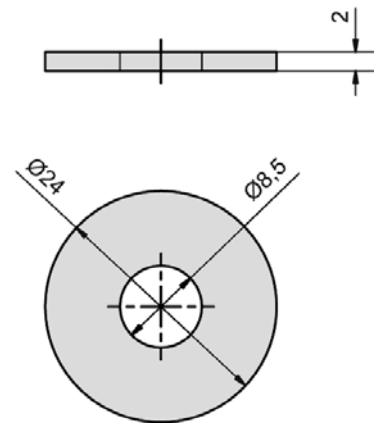
**Codice 2672**

**Descrizione**  
Rondella 8.5/24 spessore 2 mm

**Materiale**  
Acciaio Inox

**Description**  
Washer 8.5/24 thickness 2 mm

**Material**  
Stainless steel



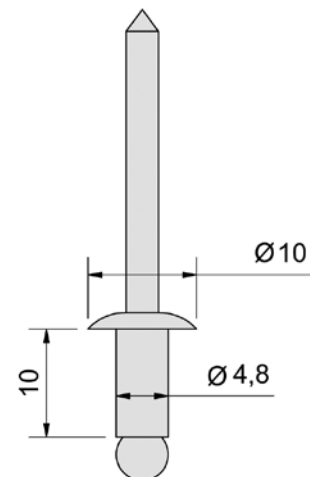
**Codice 2710**

**Descrizione**  
Rivetto testa tonda All/All 4,8x10

**Materiale**  
Alluminio

**Description**  
Aluminium/Aluminium round head rivet 4,8x10

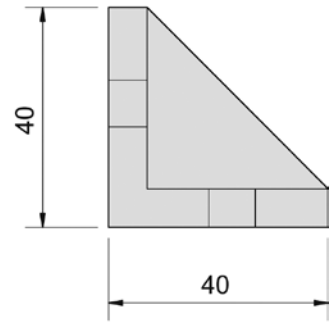
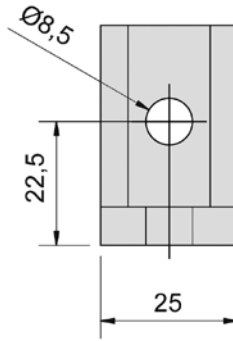
**Material**  
Aluminium



### Codice 3015S

Descrizione  
Angolare 25x40  
Materiale  
Alluminio pressofuso  
Peso  
47 g

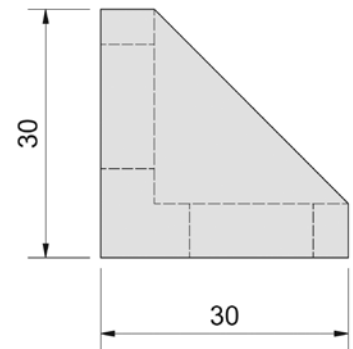
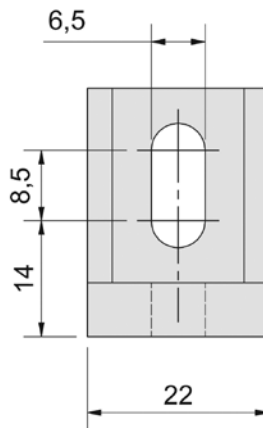
Description  
Angle 25x40  
Material  
Die-cast aluminium  
Weight  
47 g



### Codice 3017S

Descrizione  
Angolare 22x30 asola 6,5  
Materiale  
Alluminio pressofuso  
Peso  
22 g

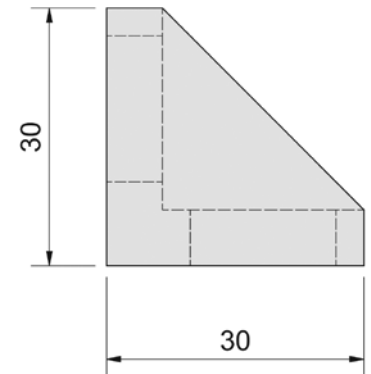
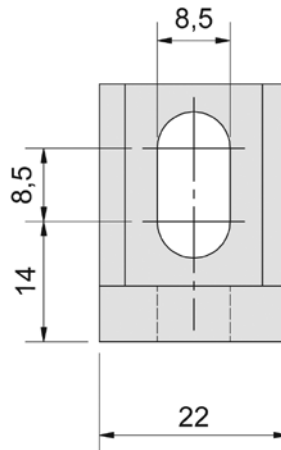
Description  
Angle 25x40  
Material  
Die-cast aluminium  
Weight  
47 g



### Codice 3018S

Descrizione  
Angolare 22x30 asola 8,5  
Materiale  
Alluminio pressofuso  
Peso  
22 g

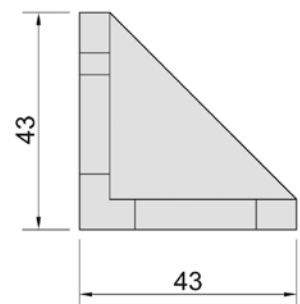
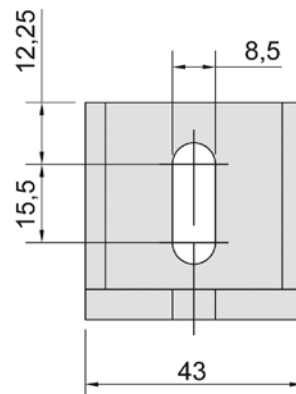
Description  
Angle 22x30 slot 8,5  
Material  
Die-cast aluminium  
Weight  
22 g



### Codice 3020S

Descrizione  
Angolare 43x43  
Materiale  
Alluminio pressofuso  
Peso  
65 g

Description  
Angle 43x43  
Material  
Die-cast aluminium  
Weight  
65 g



**Codice 3055**

**Descrizione**

Giunto in cava L180

**Materiale**

Acciaio zincato

Fornito con n° 4 grani zincati

**Peso**

110 g

**Description**

Joint in slot L180

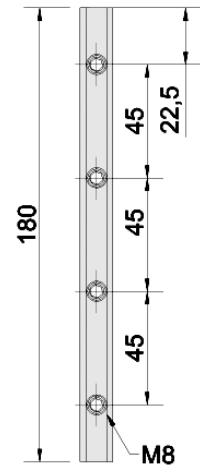
**Material**

Galvanized steel

supplied with 4 galvanized dowels

**Weight**

110 g



**Codice 3152**

**Descrizione**

Staffa laterale h40

Per pannelli spessore da 31 a 40 mm

**Materiale**

Acciaio Inox

**Peso**

60 g

**Description**

Side bracket h40

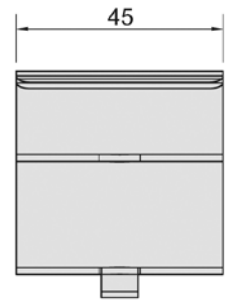
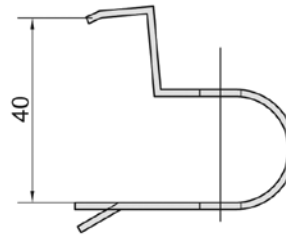
For modules with thickness from 31 to 40 mm

**Material**

Stainless steel

**Weight**

60 g



**Codice 3154**

**Descrizione**

Staffa laterale h50

Per pannelli spessore da 41 a 50 mm

**Materiale**

Acciaio Inox

**Peso**

70 g

**Description**

Side bracket h50

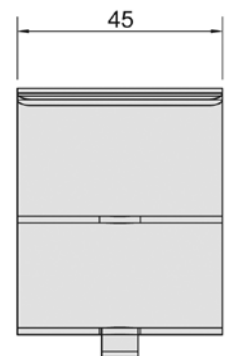
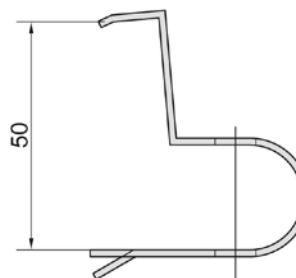
For modules with thickness from 41 to 50 mm

**Material**

Stainless steel

**Weight**

70 g





### Codice 3128

**Descrizione**

Staffa laterale h40 c/vite zn  
Per pannelli spessore  
da 31 a 40 mm

**Materiale**

Acciaio Inox con vite in acciaio zincato

**Peso**

100 g

**Description**

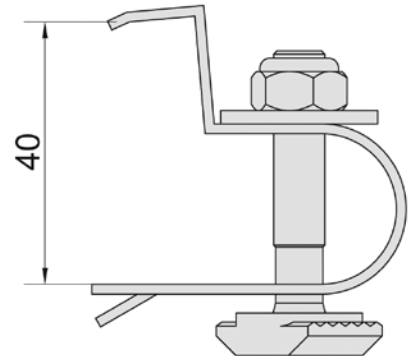
Side bracket h40 with  
galvanized screw  
For modules with thickness  
from 31 to 40 mm

**Material**

Stainless steel with galvanized  
steel screw

**Weight**

100 g



### Codice 3155

**Descrizione**

Staffa laterale h50 c/vite zn  
Per pannelli spessore  
da 41 a 50 mm

**Materiale**

Acciaio Inox con vite in acciaio zincato

**Peso**

110 g

**Description**

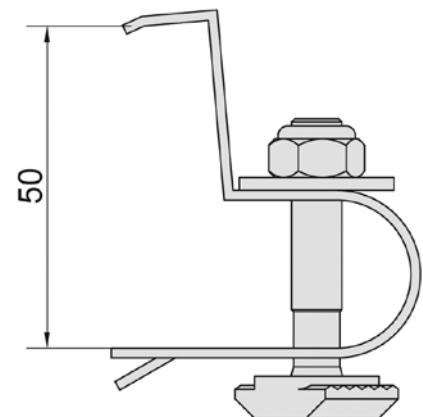
Side bracket h50 with  
galvanized screw  
For modules with thickness  
from 41 to 50 mm

**Material**

Stainless steel with galvanized  
steel screw

**Weight**

110 g



### Codice 3131

**Descrizione**

Staffa intermedia

**Materiale**

Acciaio Inox

**Peso**

30 g

**Description**

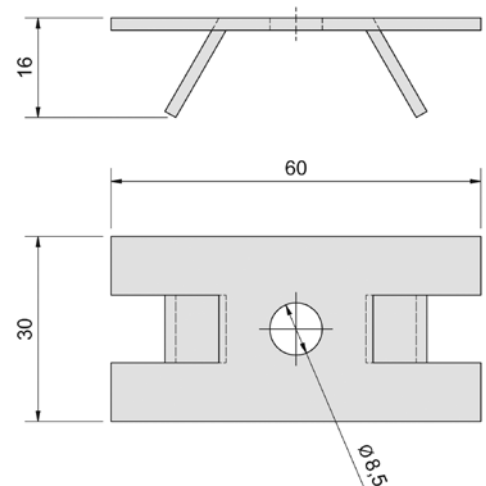
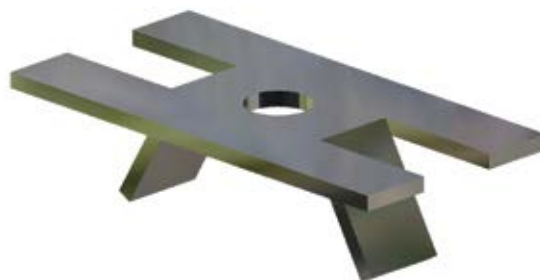
Intermediate bracket

**Material**

Stainless steel

**Weight**

30 g



**Codice 3153 - 3132 - 3142**

**Descrizione**

Staffa intermedia premontata da utilizzare con pannelli di spessore da 31 a 50 mm

**Materiale**

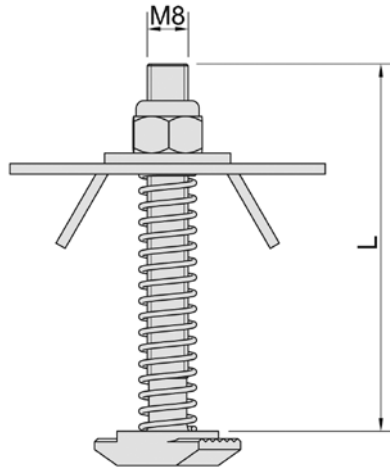
Acciaio Inox con vite in acciaio zincato

**Description**

Pre-assembled intermediate bracket to be used with modules with thickness from 31 to 50mm

**Material**

Stainless steel with galvanized steel screw



Codice	L	Sp. pannello/module	Peso/weight
3153	50	31 - 37	65 g
3132	60	38 - 45	70 g
3142	70	46 - 50	75 g

**Codice 3145**

**Descrizione**

Staffa Inox per tetti a falda

**Materiale**

Acciaio Inox

**Peso**

850 g

**Description**

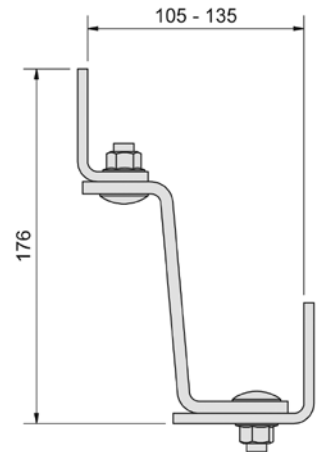
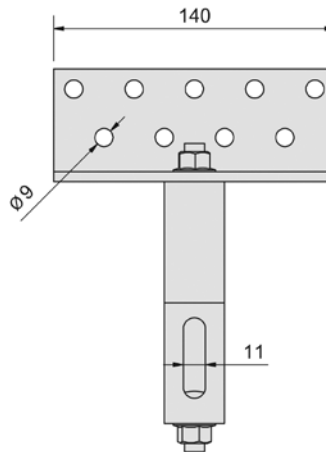
Stainless steel bracket for pitched roofs

**Material**

Stainless steel

**Weight**

850 g



**Codice 3149**

**Descrizione**

Staffa tegole Marsigliesi

**Materiale**

Acciaio Inox

**Peso**

500 g

**Description**

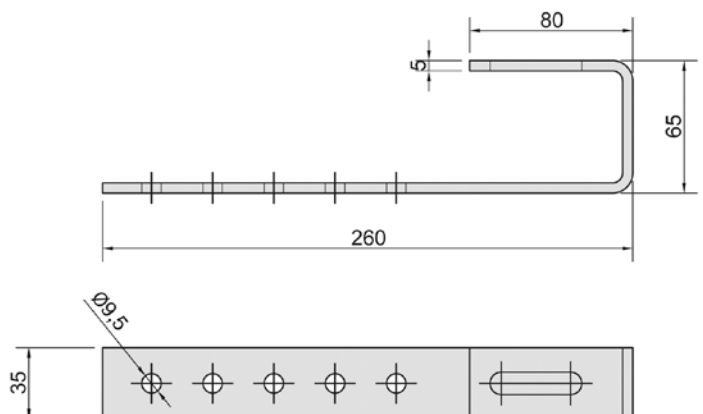
Bracket for Marseillaise tiles

**Material**

Stainless steel

**Weight**

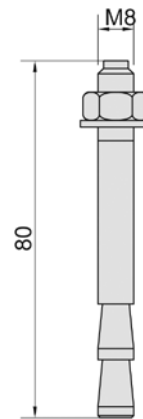
500 g



### Codice 3143

Descrizione  
Tassello M8x80 per zavorra  
Materiale  
Acciaio Inox

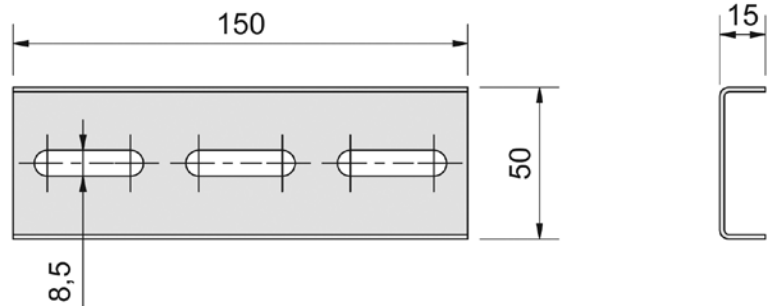
Description  
Dowel M8x80 for ballast  
Material  
Stainless steel



### Codice 3146

Descrizione  
Staffa per zavorra  
Materiale  
Acciaio Inox  
Peso  
120 g

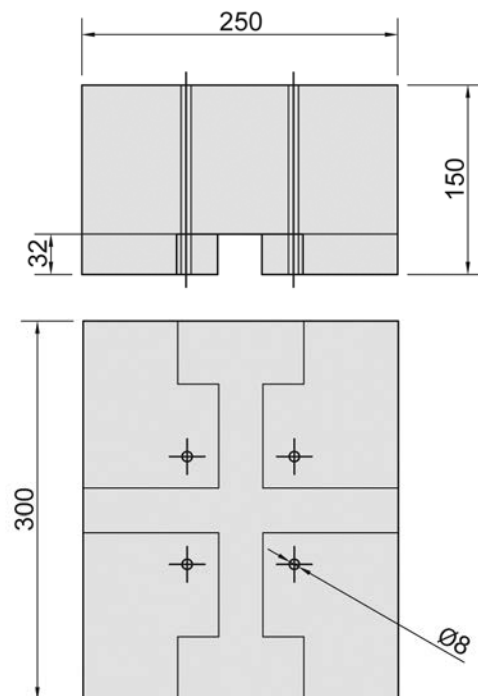
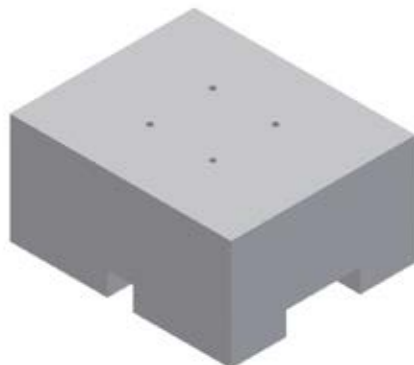
Description  
Bracket for ballast  
Material  
Stainless steel  
Weight  
120 g



### Codice 3147

Descrizione  
Zavorra Kg.24 per profilo 32x32 4C  
Materiale  
Cemento  
Peso  
24 Kg

Description  
Ballast Kg.24 for profile 32x32 4C  
Material  
Concrete  
Weight  
24 Kg





**Codice 3139**

Descrizione  
Tirafondo M10x200 + staffa INOX

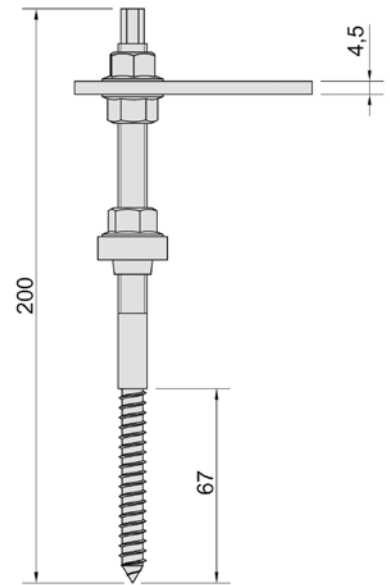
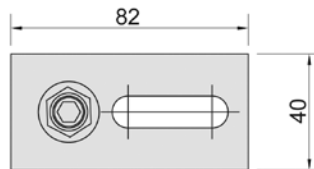
Materiale  
Acciaio Inox

Peso  
230 g

Description  
Anchor bolt M10x200 + stainless steel bracket

Material  
Stainless steel

Weight  
230 g



**Codice 3141**

Descrizione  
Tirafondo M10x300 + staffa INOX

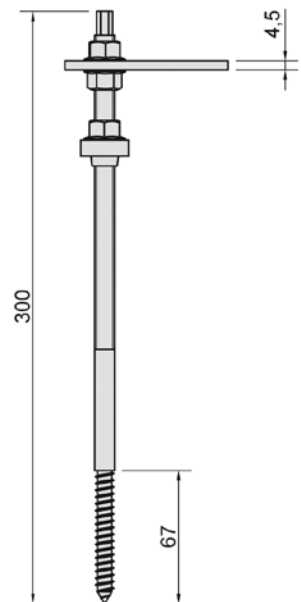
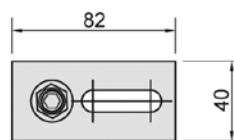
Materiale  
Acciaio Inox

Peso  
300 g

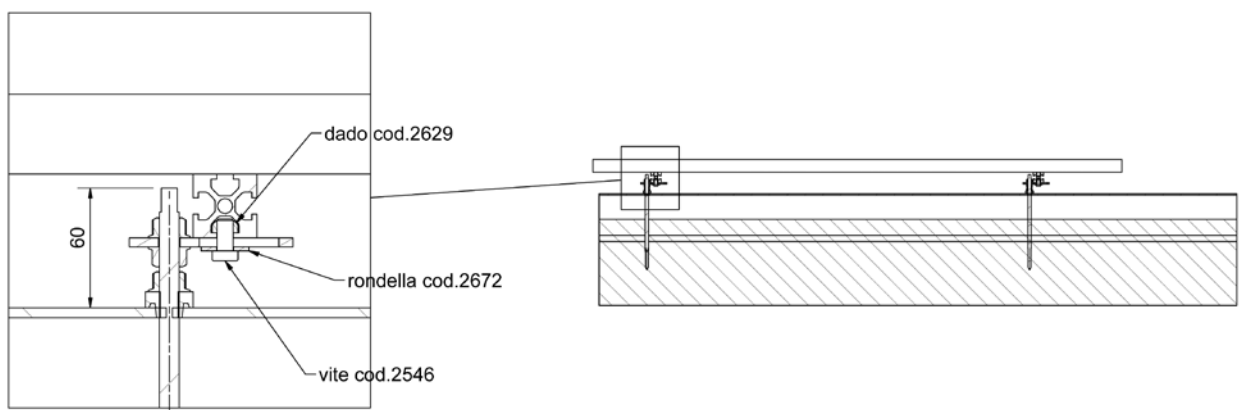
Description  
Anchor bolt M10x300 + stainless steel bracket

Material  
Stainless steel

Weight  
300 g



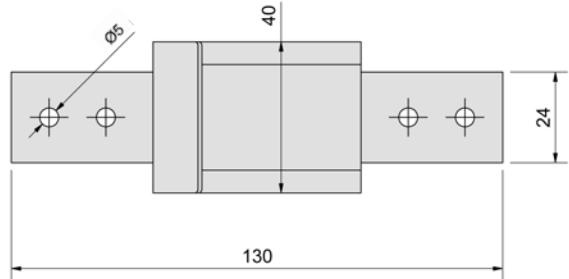
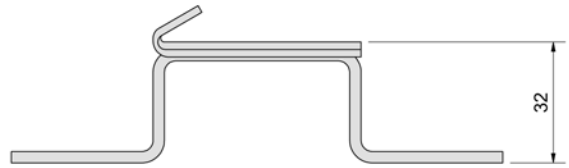
**applicazione cod. 3139 e 3141**  
application code 3139 and 3141



### Codice 3170

Descrizione  
Staffa laterale fissa  
Materiale  
Acciaio Inox  
Peso  
140 g

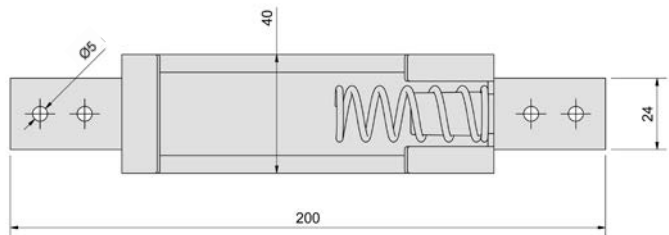
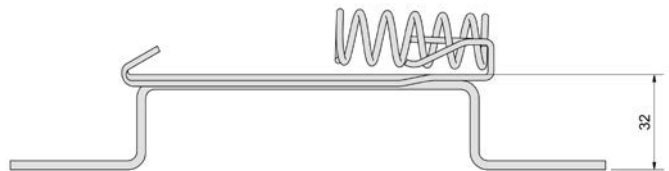
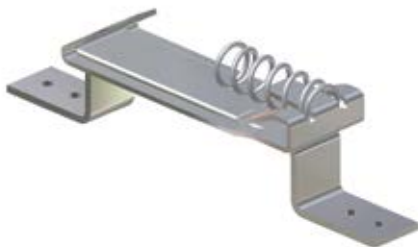
Description  
Fixed side bracket  
Material  
Stainless steel  
Weight  
140 g



### Codice 3171

Descrizione  
Staffa intermedia fissa  
Materiale  
Acciaio Inox  
Peso  
255 g

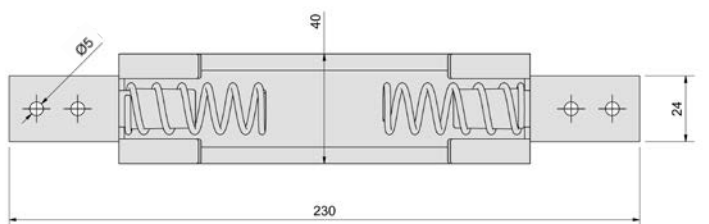
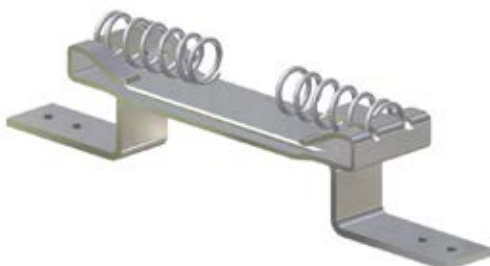
Description  
Fixed intermediate bracket  
Material  
Stainless steel  
Weight  
255 g



### Codice 3172

Descrizione  
Staffa colmo fissa  
Materiale  
Acciaio Inox  
Peso  
310 g

Description  
Fixed peak bracket  
Material  
Stainless steel  
Weight  
310 g



**Codice 3173**

Descrizione  
staffa laterale regolabile

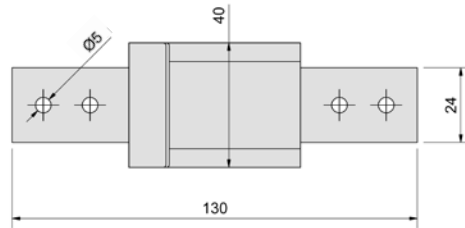
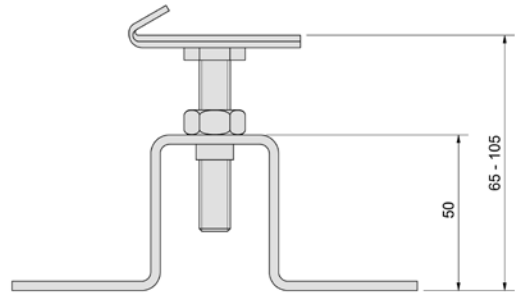
Materiale  
Acciaio Inox

Peso  
220 g

Description  
Adjustable side bracket

Material  
Stainless steel

Weight  
220 g



**Codice 3174**

Descrizione  
staffa intermedia regolabile

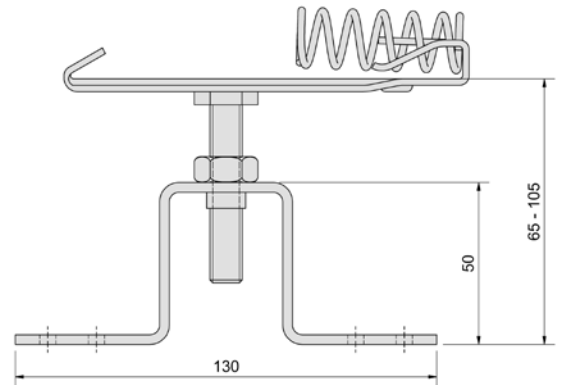
Materiale  
Acciaio Inox

Peso  
300 g

Description  
Adjustable intermediate bracket

Material  
Stainless steel

Weight  
300 g



**Codice 3175**

Descrizione  
staffa colmo regolabile

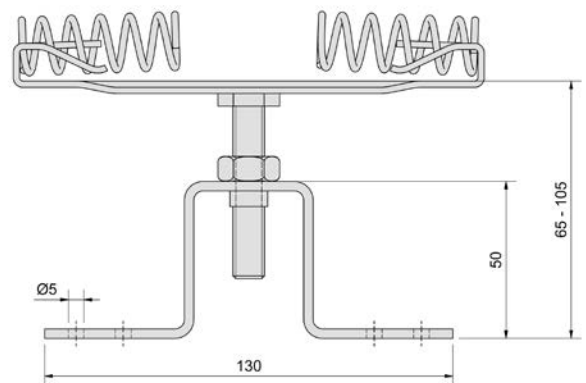
Materiale  
Acciaio Inox

Peso  
330 g

Description  
Adjustable peak bracket

Material  
Stainless steel

Weight  
330 g











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