

 **pemsa**

*how to  
install*

**reji**band®



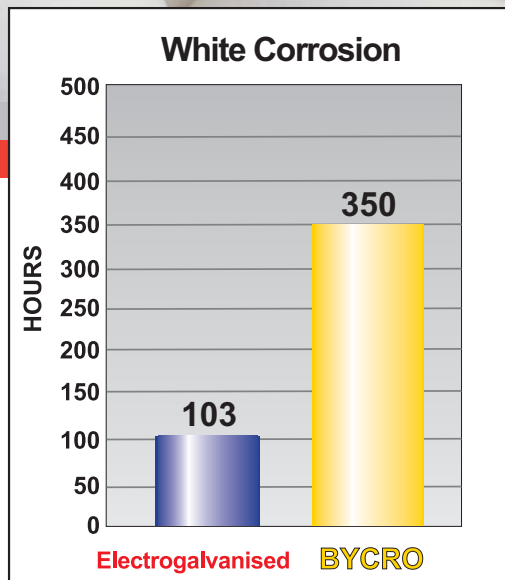
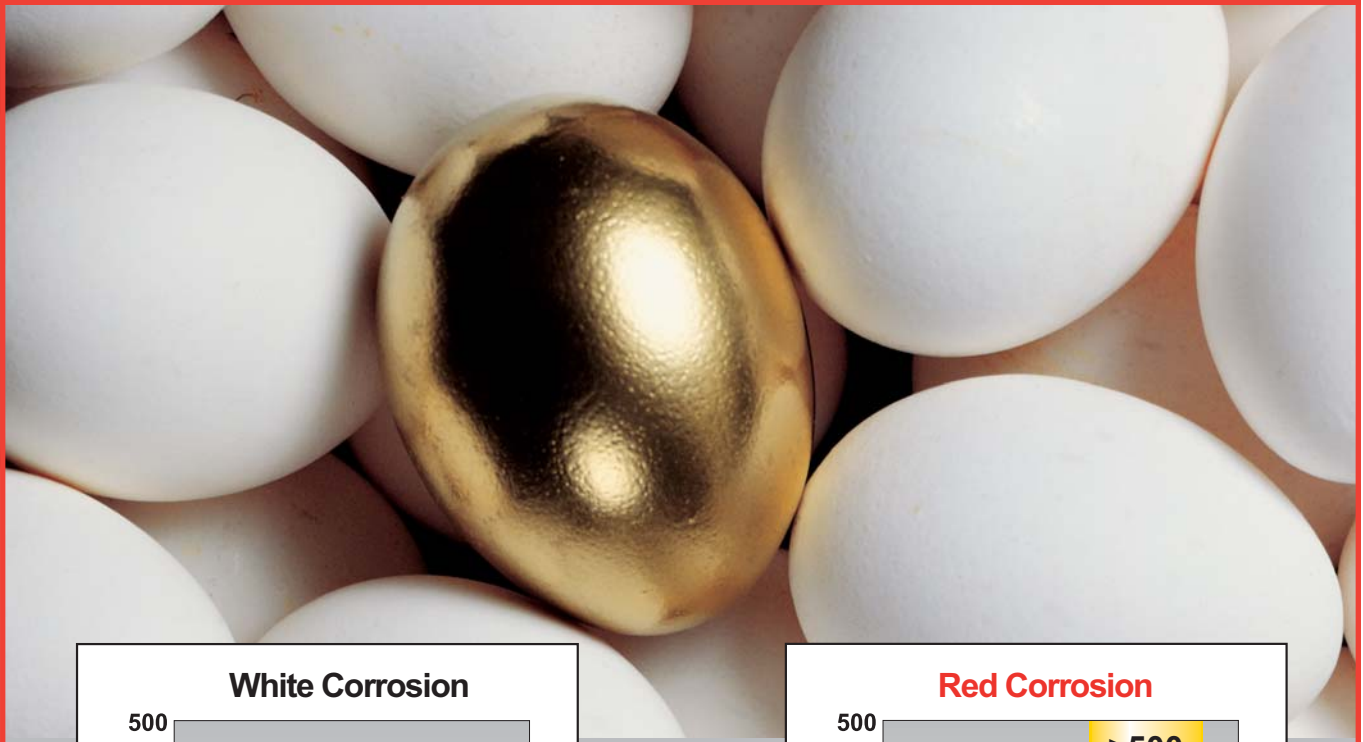
**reji**band**®**

**BYCRO Coating**

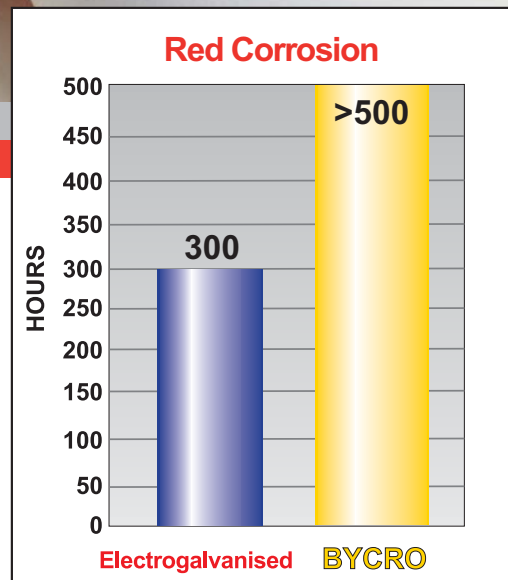
**Enhanced  
Protection**



**against Corrosion**



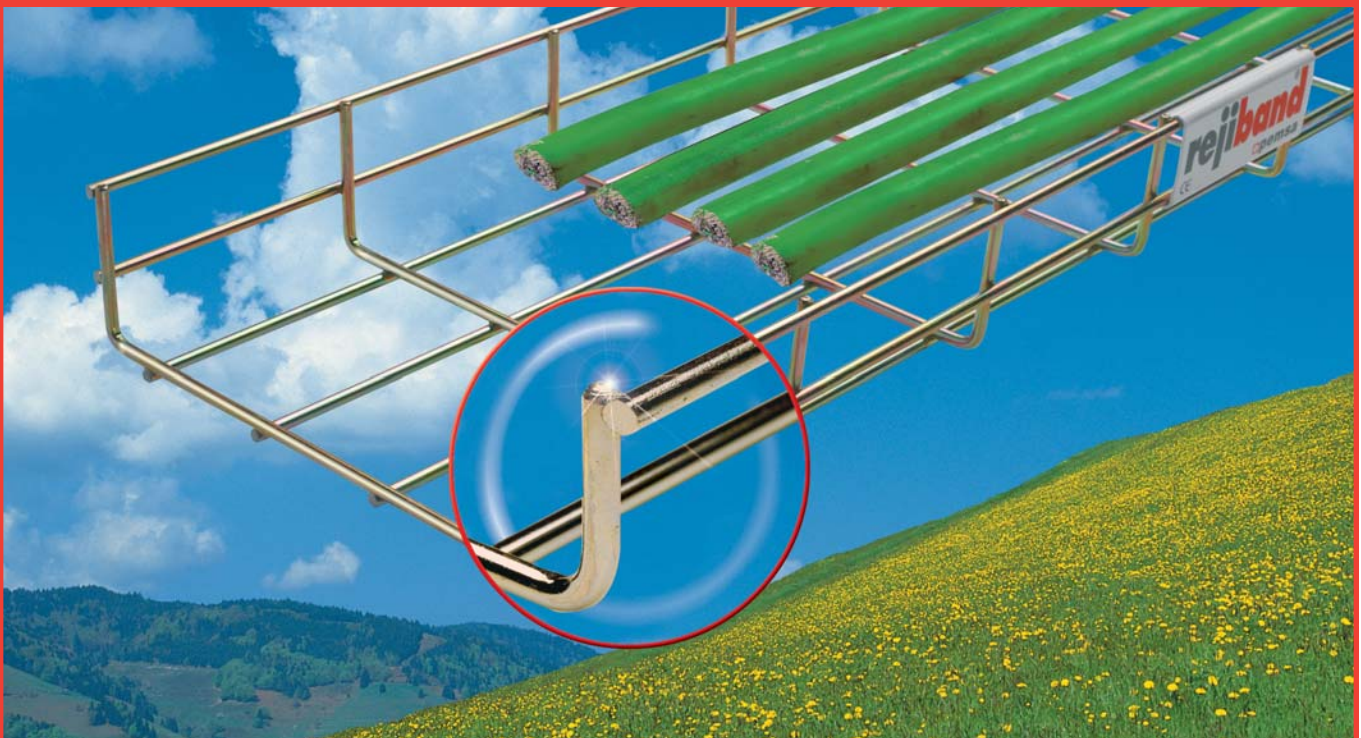
**4 times better !!**



**150 % better !!**

Laboratory Tests performed under ASTM B117 Standard proves the excellent behaviour of Pemsa BYCRO finish against corrosion.

# rejiband® Wire Mesh Tray



## BYCRO Wire Mesh rejiband® Featuring:

- Enhanced Protection against Corrosion
- Safety Edge
- Chrome-VI free
- Compliant with RoHS 2002/95/CE and WEEE 2002/96/CE



Pemsa contributes to the environment protection and removes any trace of Chrome-VI from its production process.

**rejiband®** BYCRO maintains the same outstanding performance against corrosion and is friendly with the environment.



cod. CYNW. E305934



## Fire Resistance

**1000 °C, during 90 minutes**

**rejiband®** basket tray has successfully exceeded the fire resistance tests defined by the German Standard DIN 4102-12 "Fire behaviour of building materials and elements, Fire resistance of electric cable systems required to maintain circuit integrity", by withstanding 1000 °C (1832 °F) temperature during 90 minutes, thus obtaining the E90 certification.

In case of fire, **rejiband®** basket tray does not harm either the people or the installation itself (no fumes of toxic, corrosive or opaque nature at all), and ensures enough structural resistance and the power supply to the most critical systems (emergency lighting, fire detection, etc).

**E90**  
fire resistance



## UL Classified

**rejiband® ELECTRICAL CONTINUITY GUARANTEED.**

This certification ensures, when using **rejiband®** basket, that the correct electrical continuity between trays exists which could, under certain circumstances, be used as a protective earth without using any additional protective conductor. Any protective conductor would connect all earthed points of an installation to the earth conductor, in order to eliminate the risks through indirect contact.

The UL Classified mark, achieved by PEMSA, is the result of testing electrogalvanized **rejiband®** basket trays (35, 60 & 100mm flange) joined with the Reinforced Joint Clamp. It certifies that the requirements of the NEMA VE 1-2000 Metal Cable Tray Systems standards are met in accordance with the Canadian Electrical Code and the National Electrical Code, NEC.

### The value of the UL CLASSIFIED marking

UL is one of the most renowned safety certification institutions worldwide. A UL marked product is an item that has been successfully tested by the UL in accordance with certain safety requirements. These tests ensure the use of this product does not bring any significant risk of fire, electric shock or any other linked danger. The safety requirements are equally met in the long term, since UL performs periodic checks and verifications at the manufacturer's premises.

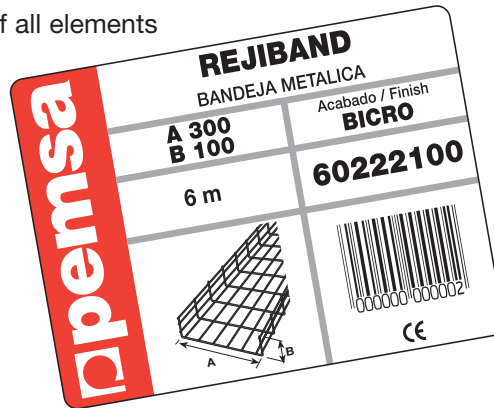


cod. CYNW. E305934

## Pemsa, the metal tray and channel system that provides:

### Graphic labels

Allow perfect identification of all elements of the **rejiband®** system.

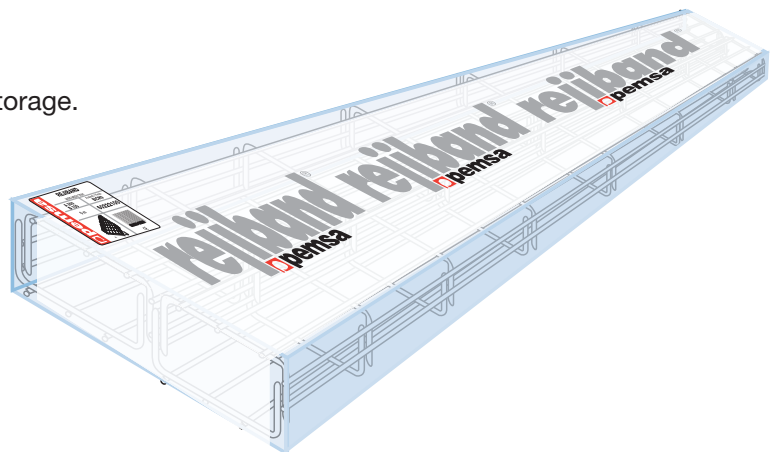


- Facilitate storage.
- Allow product identification during the entire manufacturing process.
- Include the following: 13-digit EAN bar code, reference number, the units it contains, type of finish and part dimensions.

### Protective packaging

With heat-sealed film and identification label.

It ensures maximum protection and perfect storage.



**All PEMSA products  
are delivered  
packaged and  
identified**

### CE Marking

All products in this catalogue comply with CE directives.

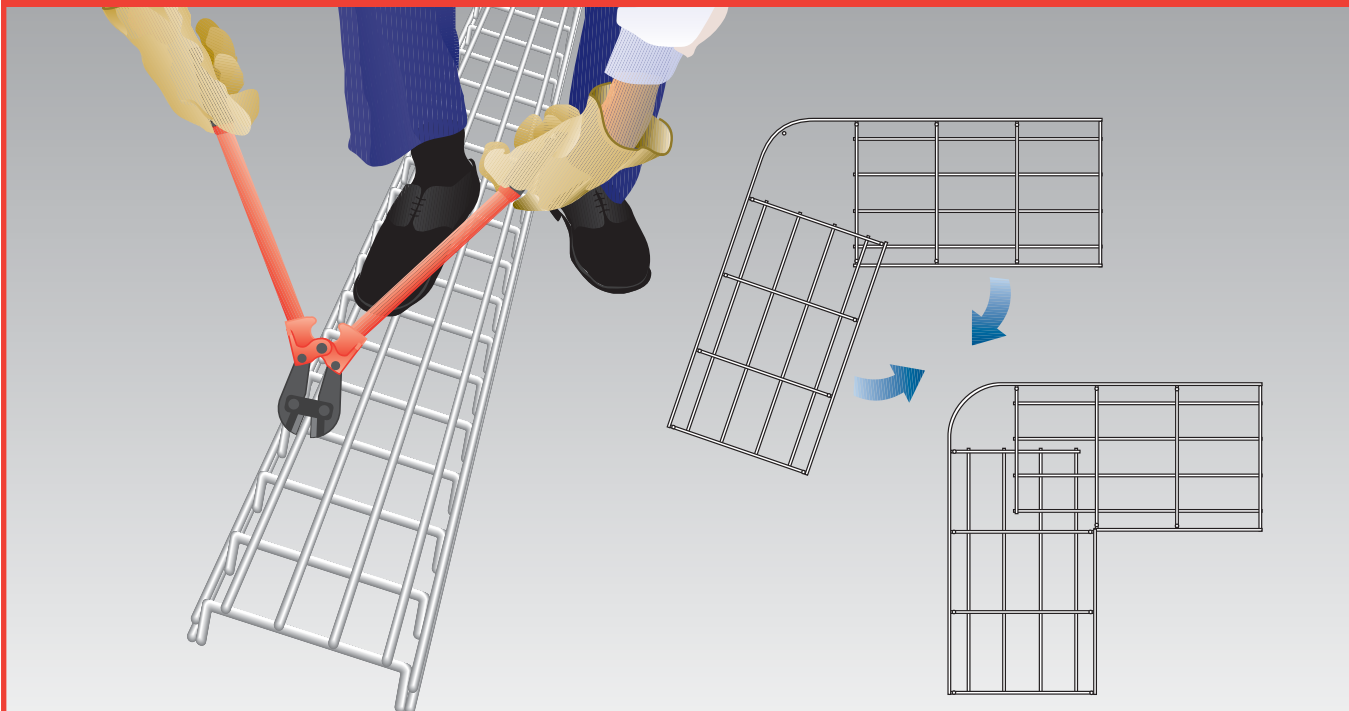


### EAN code

All products in this catalogue have been assigned their corresponding 13-digit, European bar code (EAN).



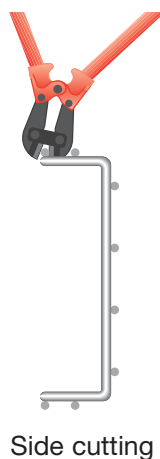
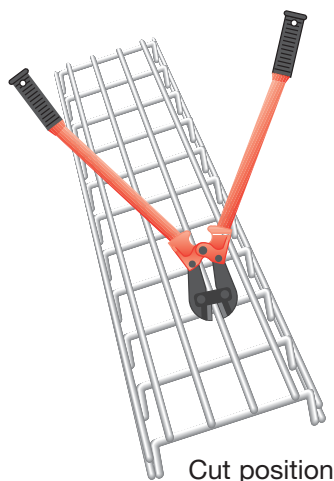
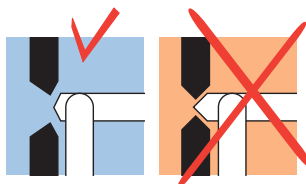
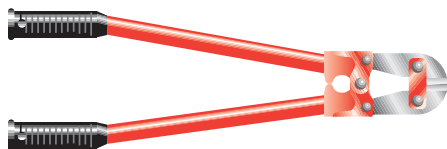
## How to cut the grid (bends, T-sections, etc.)



### cut - bend - join

#### Always use **ASYMMETRICAL-CUT WIRE CUTTERS**

Cut as close as you can to where the horizontal and vertical rods cross each other, at the position shown:



#### Avoid using parting tools to cut the grid

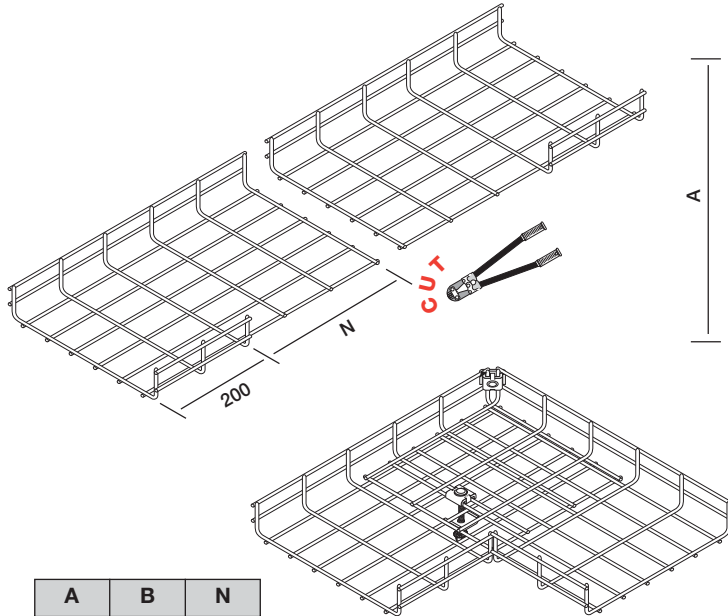


- It damages the rod's protection
- The cutting leaves burrs
- It contaminates the surroundings
- The sparks can cause accidents
- It encourages rusting

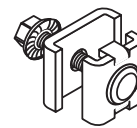
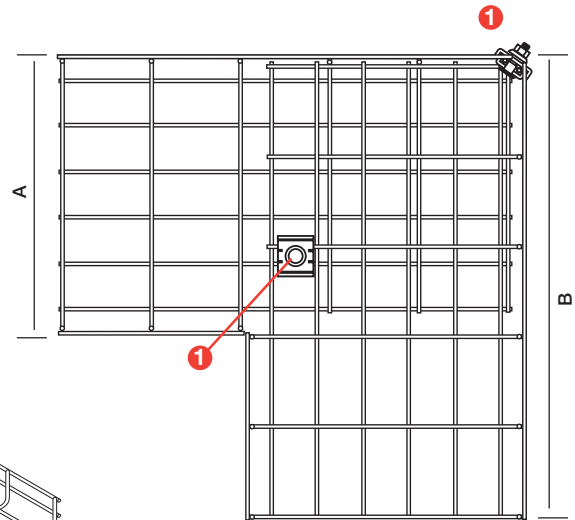
## MAKING ACCESSORIES ON SITE

### 90° BENDS

For 100-600 mm wide trays

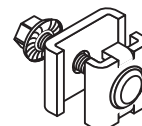
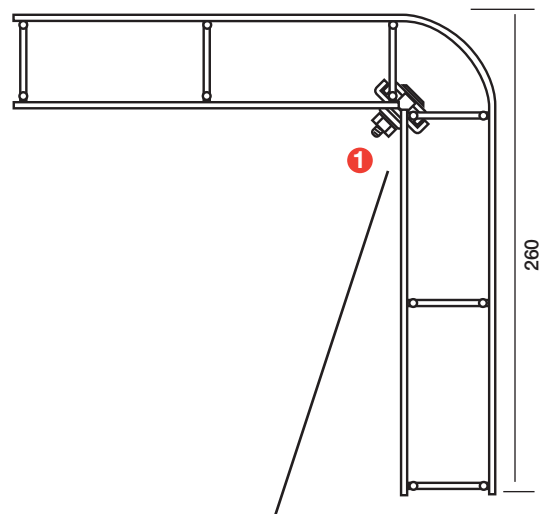
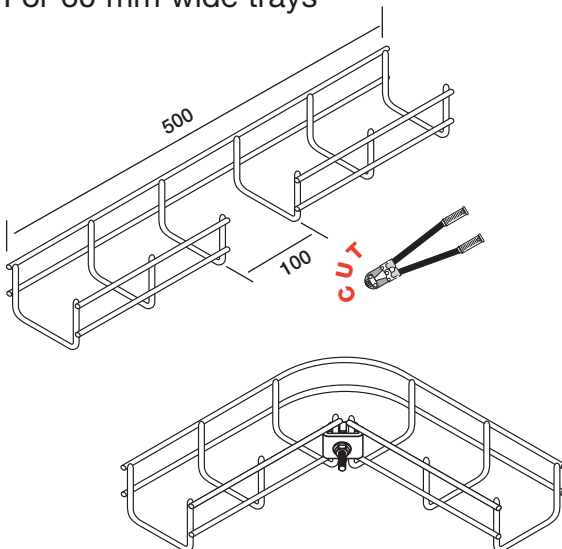


A	B	N
100	300	100
150	400	200
200	400	200
300	500	300
400	600	400
500	700	500
600	800	600



① Reinforced joint clamp

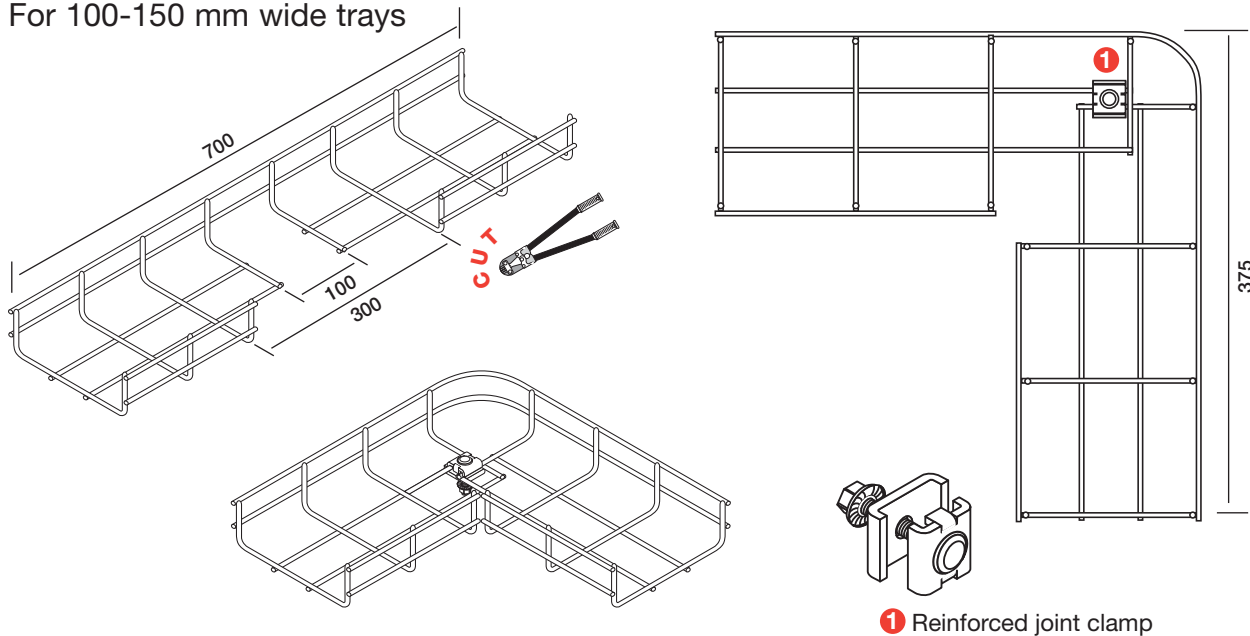
For 60 mm wide trays



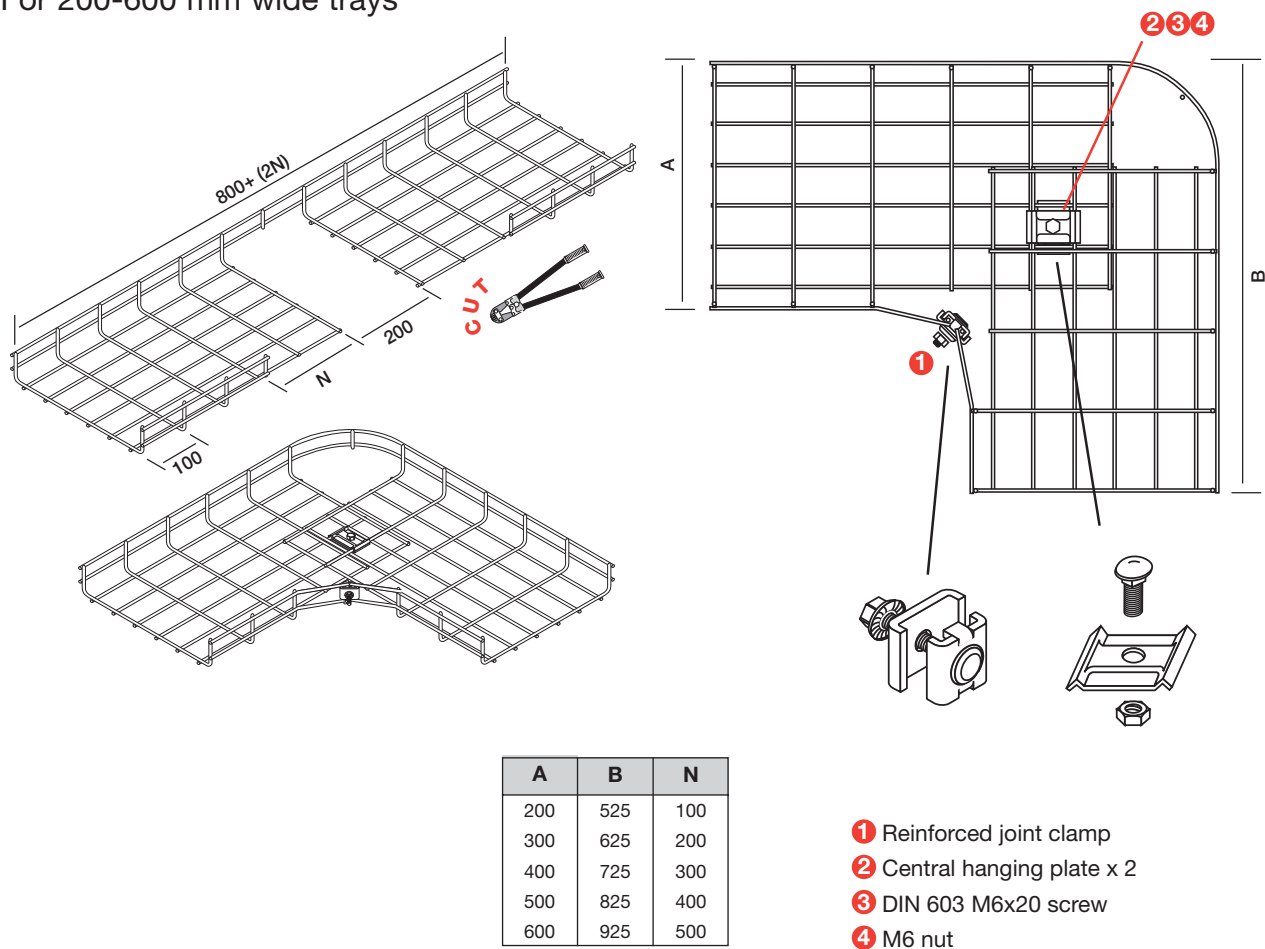
① Reinforced joint clamp

## 90° BENDS

For 100-150 mm wide trays



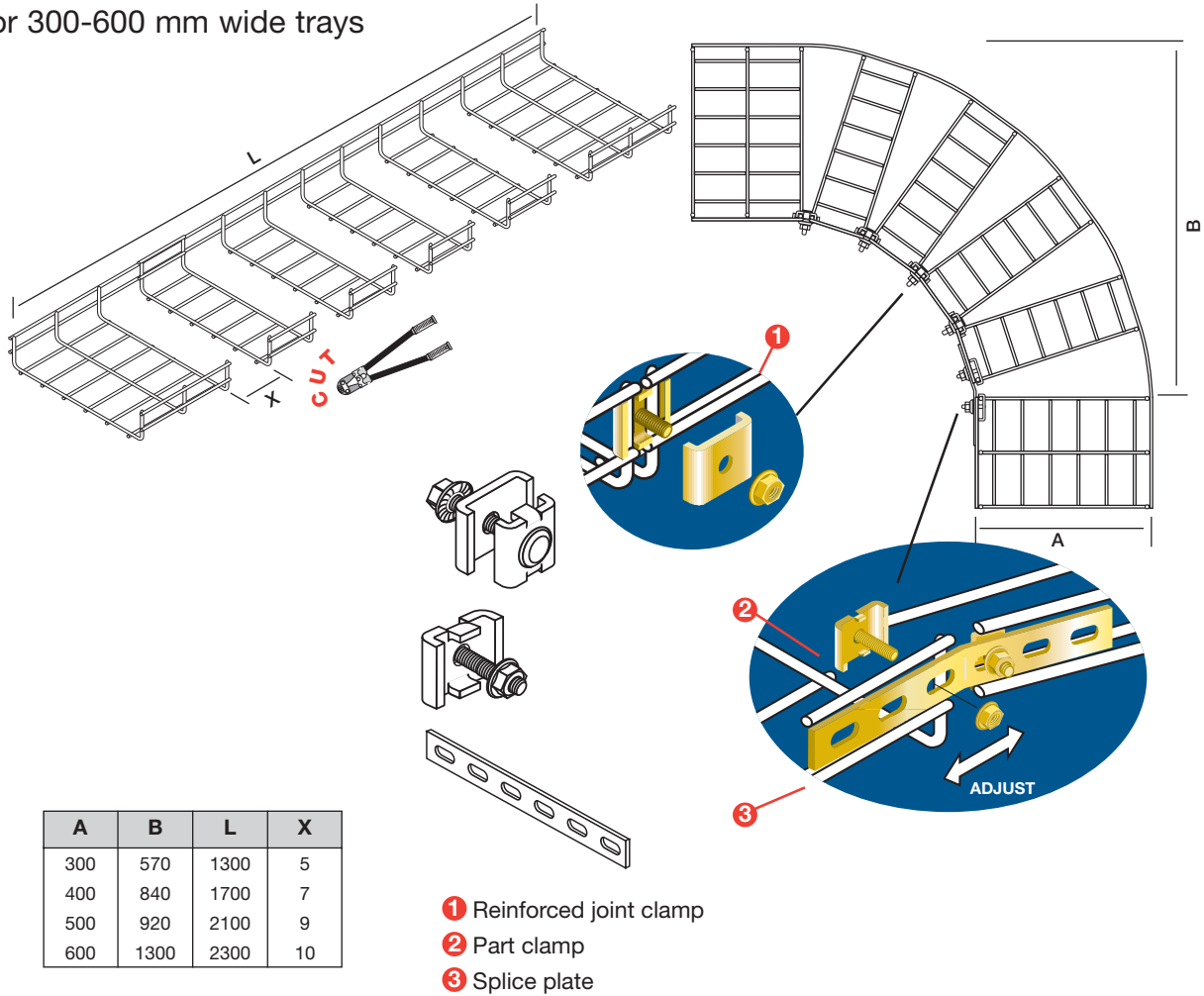
For 200-600 mm wide trays



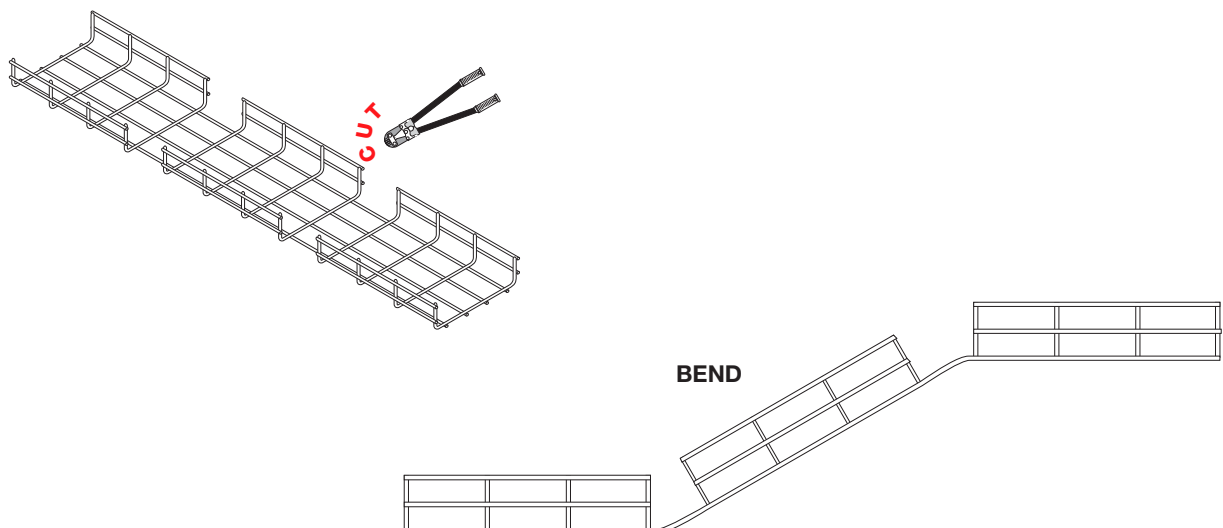
## MAKING ACCESSORIES ON SITE

### 90° BENDS

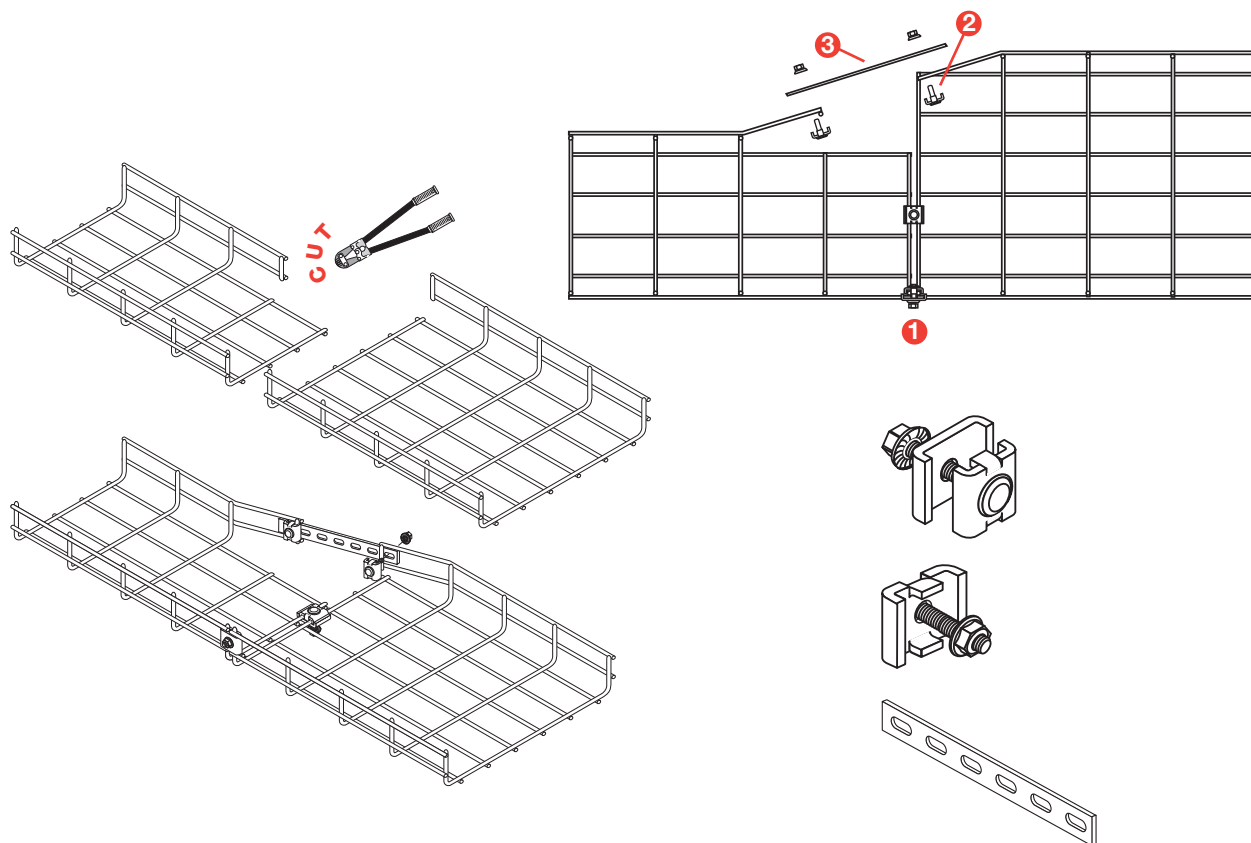
For 300-600 mm wide trays



### LEVEL CHANGE

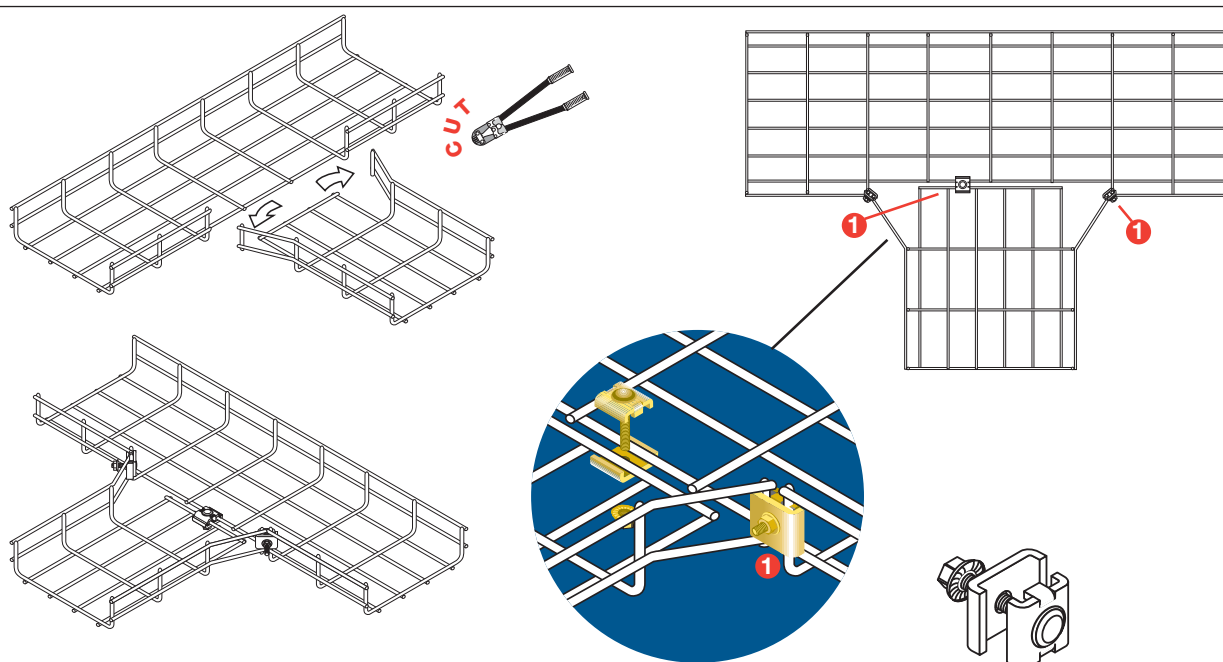


## REDUCER



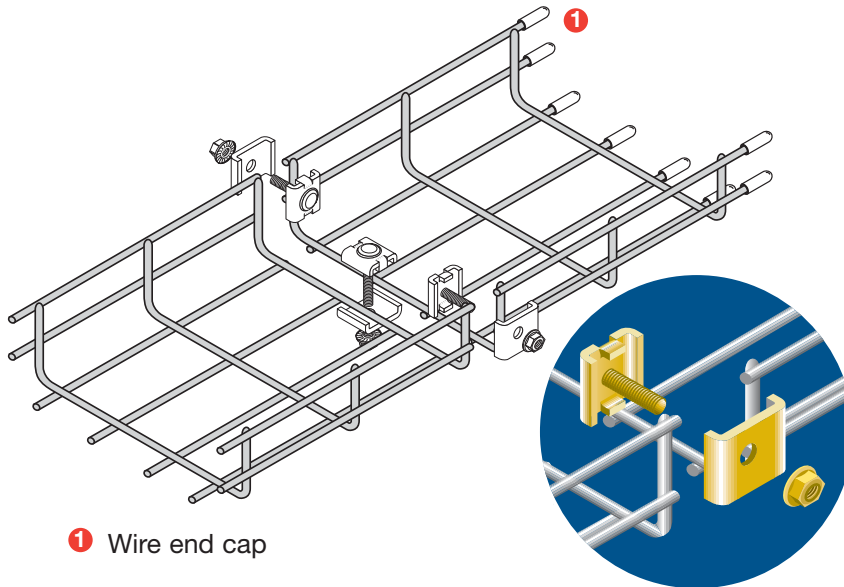
- ① Reinforced joint clamp
- ② Part clamp
- ③ Splice plate

## T-JOINTS



- ① Reinforced joint clamp

## EXAMPLES OF ASSEMBLY

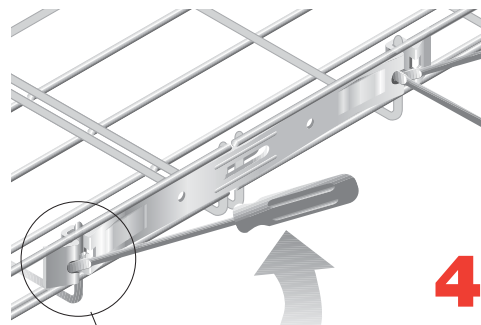
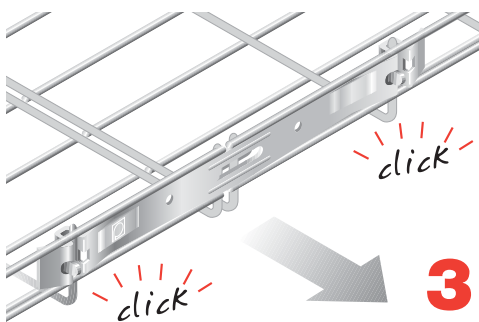
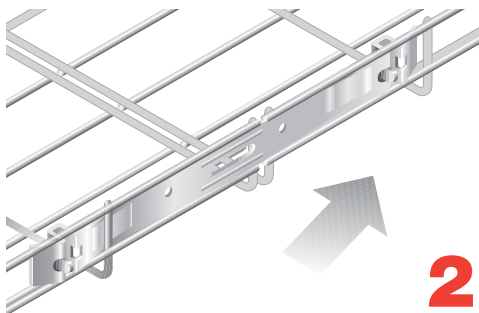
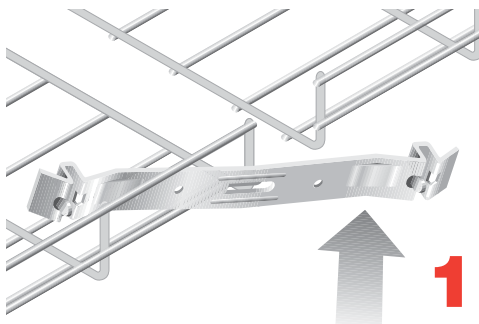


**1** Wire end cap

CONNECTORS  
NEEDED EVERY  
3 METRES

WIDE	
060	2
100	2
150	2
200	2+1
300	2+1
400	2+2
500	2+2
600	2+2

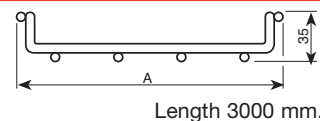
CONNECTORS NEEDED  
EVERY 3 METRES



WIDE	
100	2
150	2
200	2+1
300	2+1
400	2+2
500	2+2
600	2+2

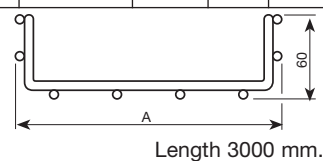
## Rejiband Products Range

### Rejiband 35



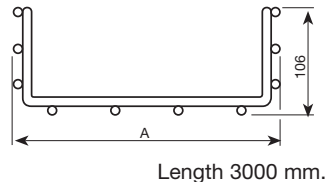
A	E.G.		BYCRO		H.D.G.		S.S. 304		S.S. 316		mm <sup>2</sup>	m
	Ref.	/m	Ref.	/m	Ref.	/m	Ref.	/m	Ref.	/m		
100	60211100	0.65	60221100	0.65	60231100	0.70	60251100	0.65	60261100	0.65	2220	24
200	60211200	1.01	60221200	1.01	60231200	1.08	60251200	1.00	60261200	1.01	4900	18
300	60211300	1.38	60221300	1.38	60231300	1.46	60251300	1.36	60261300	1.38	7580	18
400	60211400	1.77	60221400	1.77	60231400	2.02	60251400	1.73	60261400	1.74	10200	12

### Rejiband 60



A	E.G.		BYCRO		H.D.G.		S.S. 304		S.S. 316		mm <sup>2</sup>	m
	Ref.	/m	Ref.	/m	Ref.	/m	Ref.	/m	Ref.	/m		
060	60212060	0.67	60222060	0.67	60232060	0.71	60252060	0.67	60262060	0.67	2410	24
100	60212100	0.95	60222100	0.95	60232100	1.01	60252100	0.94	60262100	0.94	4310	24
150	60212150	1.01	60222150	1.01	60232150	1.07	60252150	1.00	60262150	1.00	6900	24
200	60212200	1.31	60222200	1.31	60232200	1.39	60252200	1.30	60262200	1.30	9490	18
300	60212300	2.07	60222300	2.07	60232300	2.19	60252300	1.66	60262300	1.66	14200	12
400	60212400	2.52	60222400	2.52	60232400	2.66	60252400	2.02	60262400	2.02	19300	6
500	60212500	2.97	60222500	2.97	60232500	3.13	60252500	2.38	60262500	2.38	24400	6
600	60212600	3.42	60222600	3.42	60232600	3.61	60252600	2.74	60262600	2.74	29500	6

### Rejiband 100

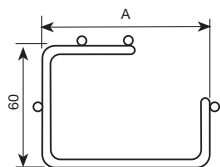


A	E.G.		BYCRO		H.D.G.		S.S. 304		S.S. 316		mm <sup>2</sup>	m
	Ref.	/m	Ref.	/m	Ref.	/m	Ref.	/m	Ref.	/m		
200	60213200	2.06	60223200	2.06	60233200	2.17	60253200	1.65	60263200	1.65	17600	6
300	60213300	2.51	60223300	2.51	60233300	2.65	60253300	2.01	60263300	2.03	27300	6
400	60213400	2.96	60223400	2.96	60233400	3.12	60253400	2.37	60263400	2.37	37100	6
500	60213500	3.41	60223500	3.41	60233500	3.60	60253500	2.73	60263500	2.76	46800	6
600	60213600	3.86	60223600	3.86	60233600	4.07	60253600	3.09	60263600	3.12	56500	6

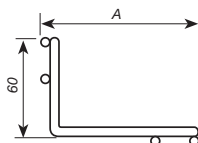
### Rejitech (false-ceiling tray)



A	E.G.		BYCRO		mm <sup>2</sup>	m
	Ref.	/m	Ref.	/m		
100	60215020	0.66	60225020	0.66	2500	16



Length 2000 mm.



Length 3000 mm.

### Angle tray



A	BYCRO		H.D.G.		m
	Ref.	/m	Ref.	/m	
109	60220000	0.67	60230000	0.71	18

A	S.S. 304		S.S. 316		m
	Ref.	/m	Ref.	/m	
109	60250000	0.67	60260000	0.67	18

Material: Steel  
Working temperature range: -45 °C / 150 °C

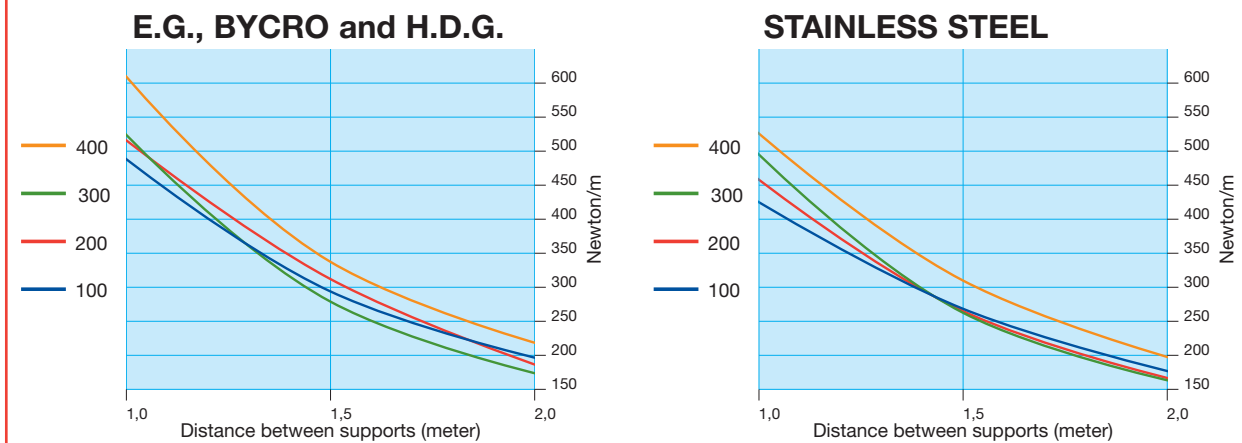
Weight in kilos

**E.G.** Electrogalvanised UNE - EN 12329  
**BYCRO** Electrolytic Bichromate UNE - EN 12329  
**P.G.** Pre-galvanised UNE - EN 10142  
**H.D.G.** Hot-dip galvanised UNE - EN-ISO 1461  
**S.S.** Passivated stainless steel AISI 304 or AISI 316

## Rejiband: Maximum safe working load

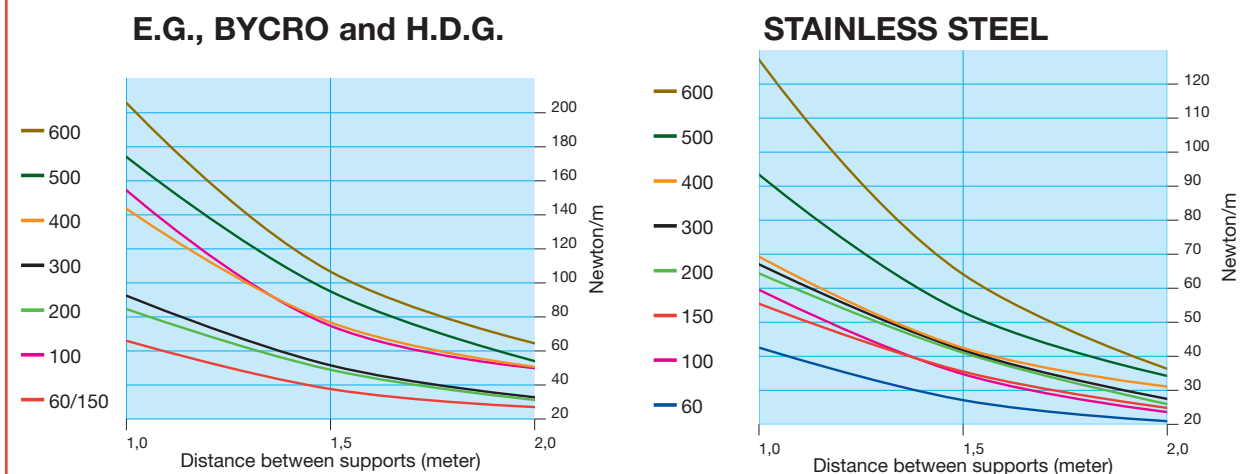
### Rejiband 35

MAXIMUM SAFE WORKING LOAD (N/m)



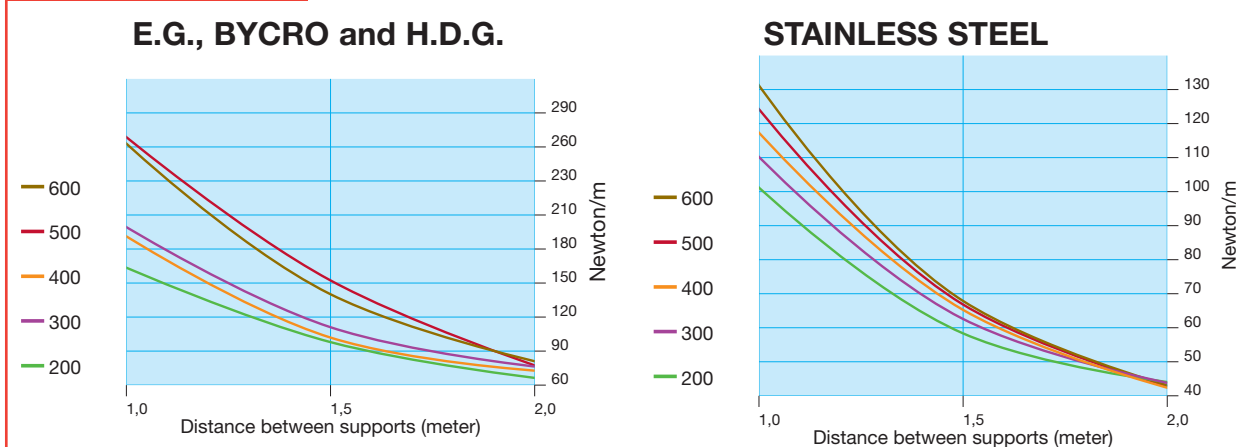
### Rejiband 60

MAXIMUM SAFE WORKING LOAD (N/m)



### Rejiband 100

MAXIMUM SAFE WORKING LOAD (N/m)



Values obtained from test according to the UNE-EN 61537 standard, with a safety coefficient of 170% without ever reaching the collapse point. Guaranteed only using our reinforced joint clamp.

Tray section joints be situated at a support distance of between  $L/4$  and  $L/5$ ,  $L$  being the distance between supports.

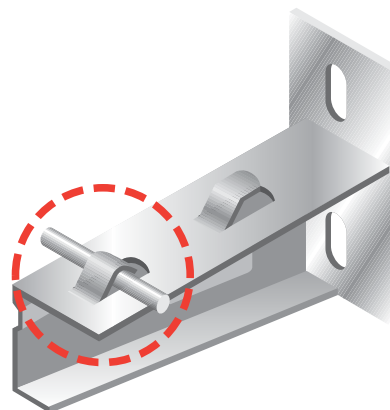
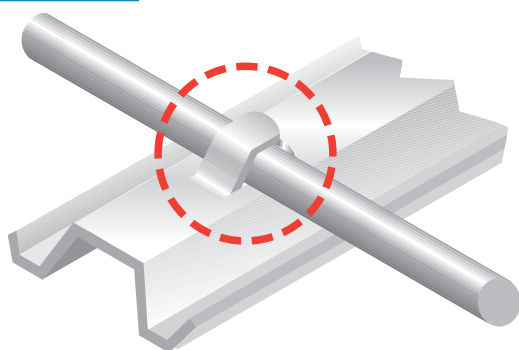
At completed tray extreme ends, tray support distance should be a maximum of  $0,4L$  without any type of joint.

# The "Click" System

for supports and accessories



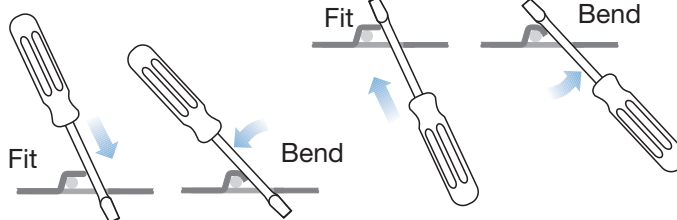
Exclusive, developed and patented by PEMSA. It brings quick fastening with no need for bolts or special tools, giving savings of up to 30%.



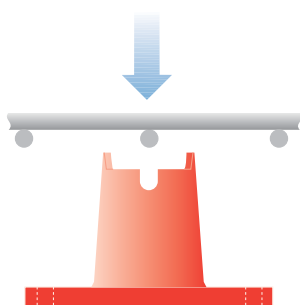
**Economy**



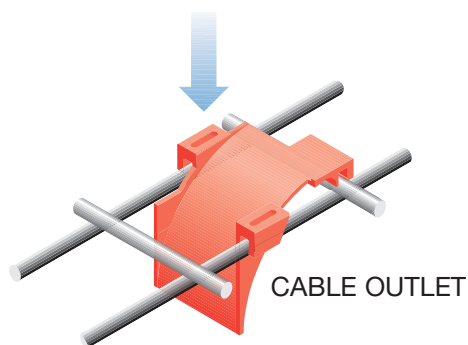
**Speed**



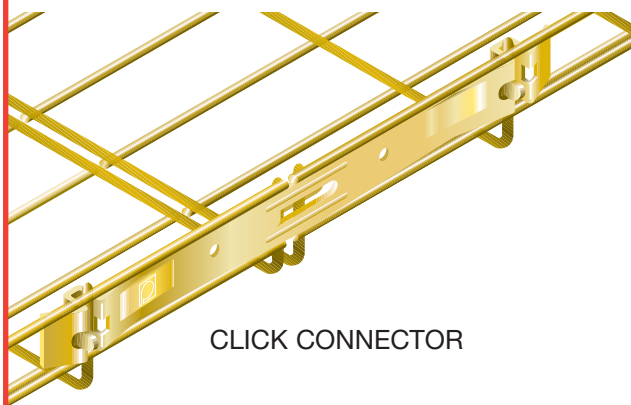
It takes just one movement to fasten the item down securely. Quick fastening, with no bolts needed.



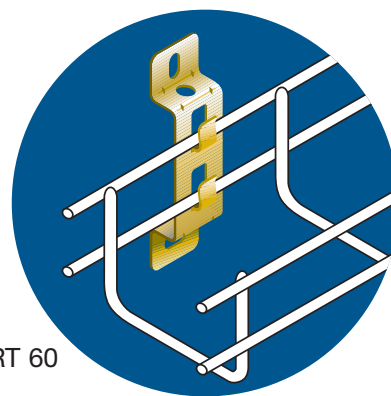
FOOT



CABLE OUTLET



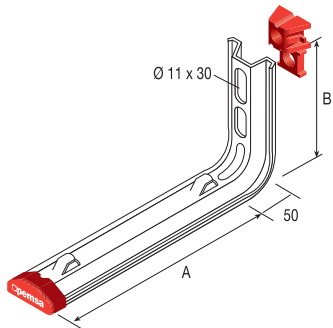
CLICK CONNECTOR



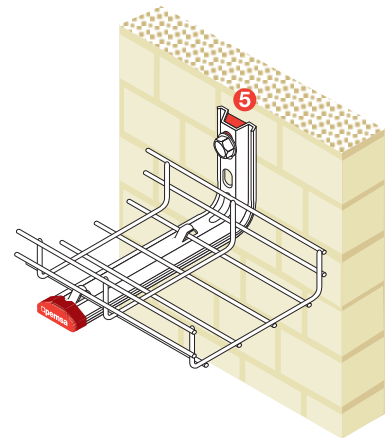
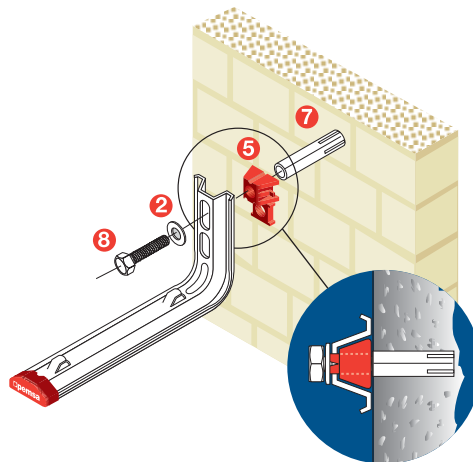
SUPPORT 60

## Wall mounting, Click System

### Omega Click bracket

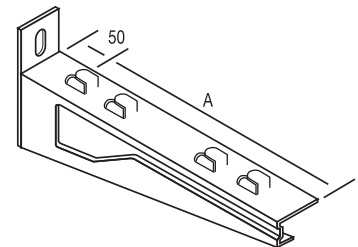
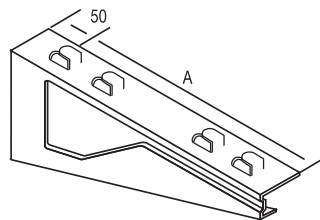


**With safety plug included**



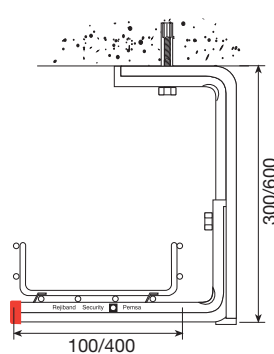
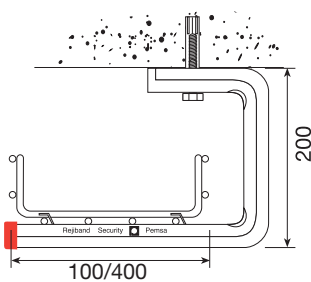
### Medium duty Click cantilever

Every support with click system is also available without it, so they can be used with any kind of tray.

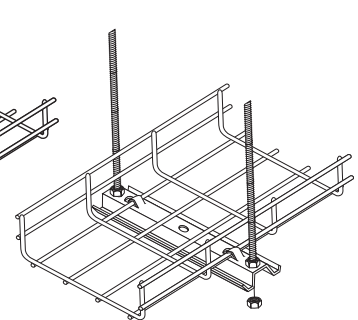
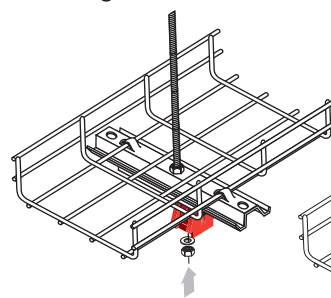


## Ceiling assembly, Click System

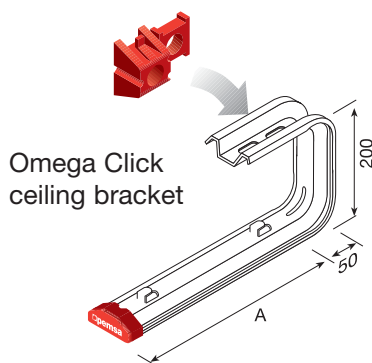
### Omega System



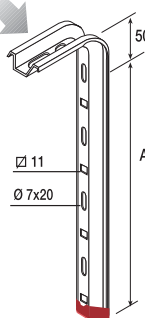
Fitting with one rod



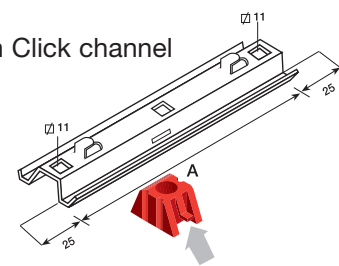
Fitting with two rods



Omega pendant bracket



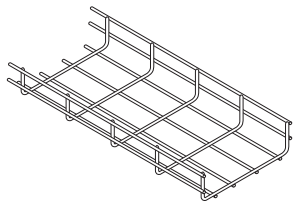
Mesh Click channel



**Fittings to Ceiling with Reinforced pendant Bracket and Medium Duty Cantilivers.**

## Pemsa Metal Trays and Channels

### rejiband®



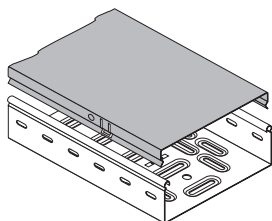
- The market-leading electrically welded steel mesh trays, with a safety edge that prevents personal injury and cable damage.

Easy to handle, its "cut, bend and link" system allows easy adaptation to every installation and provides assembly time saving exceeding 30%.

It is lightweight, offers maximum ventilation and cleanliness, provides great strength and elasticity, and allows the addition of accessories during construction.

It has a very wide range of accessories: "Click," Omega and reinforced supports; optic fibre outlet systems, etc., as well as various finishes and materials: electrolytic zinc coating, hot-dip galvanising, AISI 304 and 316 stainless steel.

### pemsaband®

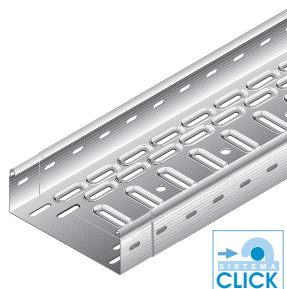


- The in-line manufactured sheet metal tray using an automatic, integrated process starting with steel sheet rolls.

The slotted perforations provide maximum strength for equal weight and thickness. Furthermore, cables are protected. Longitudinal strength is increased through the shaped ends of the lateral edges. The fitted cover is secure and easy to install, without the need for clamps or bolts.

The Pemsaband metal channel requires the use of a cover. This channel may be delivered with perforations, depending on the required IP.

Perforated metal channel with cover: IP 2x.  
Solid metal channel with IP 4x cover.



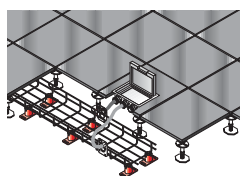
- The PEMSABAND Click tray is the new "click-in" tray system from PEMSA for the 100, 150 and 200 sizes. Thanks to the new Click system, connectors are no longer necessary: just two bolts are used for assembly. This provides an economic savings and faster and easier installation.

Comparison of the allowable load values of various cable trays

Measurements of trays	PVC tray	Rejiband tray	Pemsaband tray
100x60	110 N/m	920 N/m	1150 N/m
200x60	220 N/m	840 N/m	1760 N/m
300x60	340 N/m	1560 N/m	1040 N/m
400x100	460 N/m	1450 N/m	910 N/m

Note: load data according to manufacturer catalogues.

### false floor



- The **rejiband®** tray has a specific system for installation under false floors. This system allows quick, flexible and easy installation, thereby ensuring maximum cleanliness and ventilation.

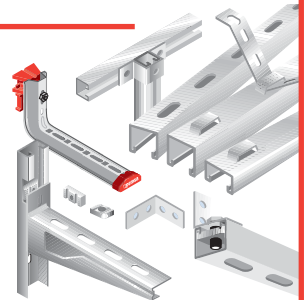
The **rejiband®** false floor is supplied with a complete range of specific supports and accessories for these types of installation.

## Supports and structures

- They are basic in a tray installation. If they are not appropriate, the entire installation will fail. When selecting these elements, the load capacity of the support and the corrosion resistance are the main considerations.

Pemsa has a complete range of installation solutions:

- Supports for Ceiling / False Ceiling installations.
- Supports for Floor / False Floor installations.
- Supports for Vertical / Horizontal Wall installations.
- Supports for Ceiling / Pendulum installations.
- Supports for installations Outdoors / Indoors / In highly corrosive environments.
- Structures for special installations.



## rejitech®

### Installation on ceilings and false ceilings

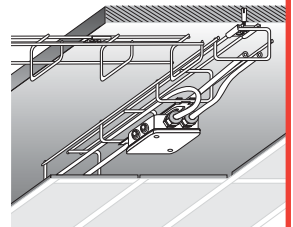
- This is a specific tray for ceilings and false ceilings. It is a tray made of high-strength, electrically welded wire mesh, which provides multiple advantages.

Its design prevents the accumulation of dust and dirt. It provides maximum cleanliness and faster and easier handling.

The reduction in installation time exceeds 55%, given that it has been designed to be fastened to the ceiling by a single bolt. Its open design ensures lateral access to cables.

The savings in materials exceeds 40%, and given that it is manufactured in 2-metre sections, transport is highly simplified and it can be easily transported in a small van.

Furthermore, it provides for easy and effortless cable handling, given that the cables are completely visible.

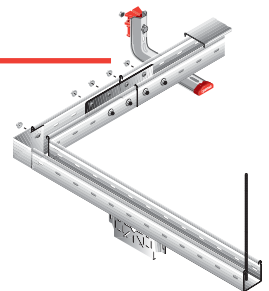


## inducanal®

- This is a metal channel of reduced size, appropriate for industrial installations.

It has great impact resistance and resistance to temperature, and is manufactured with perforations that facilitate cable outlets.

The Inducanal metal channel requires the use of the IP 2x cover.

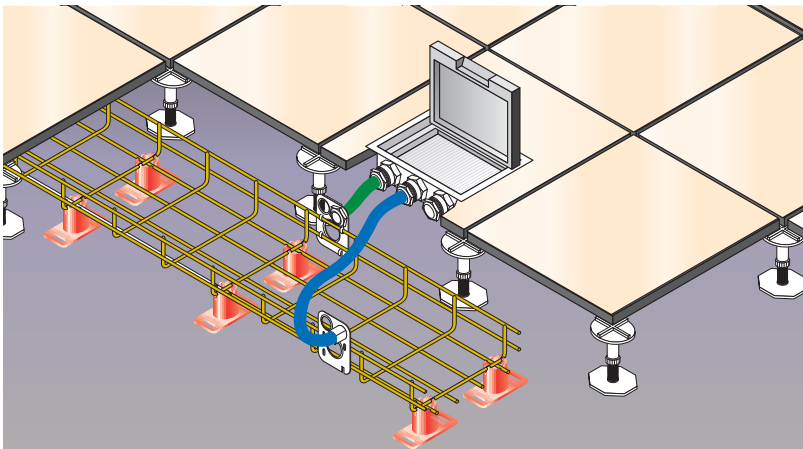


## Characteristics and benefits of PEMSA Metal Trays

- They eliminate the possibility of trays acting as fire propagation elements.
- They eliminate the risk of inhalation of toxic gases or halogens.
- They facilitate sufficient time and visibility in order to completely evacuate personnel, and facilitate access to fire sources for firemen.
- They eliminate harmful effects to equipment, or electronic or computer circuits, due to the corrosive effect of smoke on these elements.

**IN BRIEF:** The use of **rejiband®** and **pemsaband®** metal trays significantly improves the safety of owners and users of electrical installations.

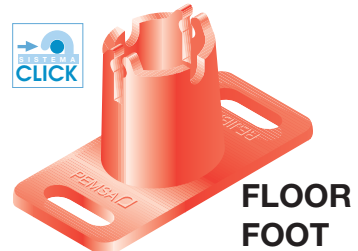
## Under floor solution



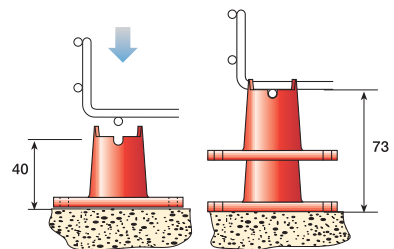
- Clean and tidy electrical installation.
- Quick and easy assembly.
- Material and Time Savings by using the floor foot.
- Can be used with all sizes of **reji**band®.

For the optimum maintenance, PEMSA recommends a minimum distance of 40mm between the rack and the floor.

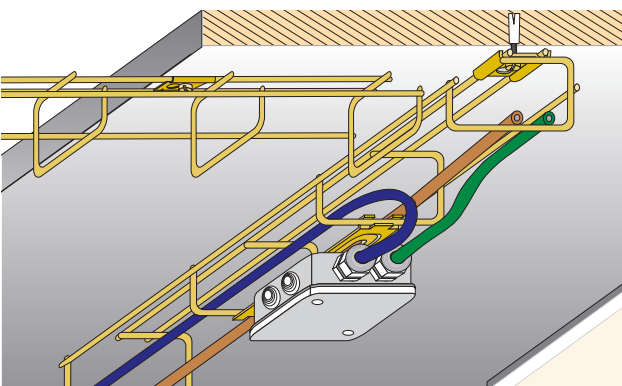
If the rack crosses pipes, the rack must always remain above the pipes.



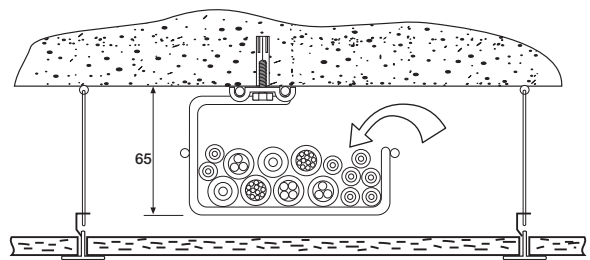
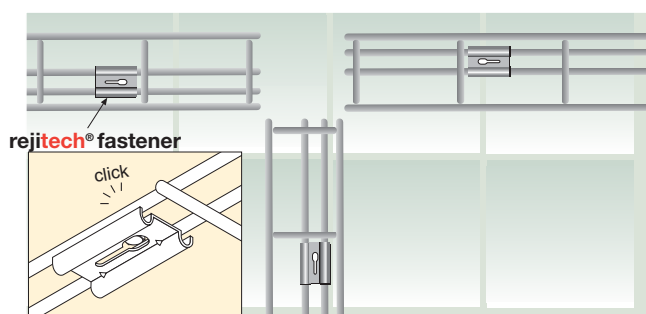
Press fit



## rejitech® false ceiling solution



- Quick installation. No joints, no accessories - just the **rejitech**® FASTENER.
- Easy and quick assembly.  
Cables are inserted from the side.  
Installation can be carried out by just one person.
- Tidy cabling. Maximum ventilation.
- Easy upgrade or modification of the cabling.
- 60mm high, ideal for small places.



CEILING FASTENER & CABLES INSERTED FROM THE SIDE



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