



AP-TJ



AP-EN



AP-SB



AP-SR

## CHARACTERISTICS

- Quick and easy construction, adapting to all types of posts
- Facilitate the construction of hardwood structures that are difficult to nail.
- Save time and labour by allowing for a meticulous finish on the wood.

## APPLICATIONS

- Round and square post bases for fencing, garden structures, palisades...
- Joining vertical and horizontal round wooden posts, fencing.

## APPLICATION EXAMPLES



## SERVICE CLASS

Installation conditions must be known before select a connector for timber, in this way the needed coating can be specified to ensure the properly functioning. According to Eurocode 5, UNE-EN 1995-1-1 the structures must be assigned to one of service classes below:

Service class y recomendated finish	
<ul style="list-style-type: none"> <li><b>Service class 1:</b> It is characterized by a moisture content in the materials corresponding to a temperature of 20°C and the relative humidity of the surrounding air only exceeding 65% for a few weeks per year. Dry internal conditions</li> </ul>	
<ul style="list-style-type: none"> <li><b>Service class 2:</b> It is characterized by a moisture content in the materials corresponding to a temperature of 20°C and the relative humidity of the surrounding air only exceeding 85% for a few weeks per year. Installation in a closed building without heating, for instance a wood structure.</li> </ul>	 
<ul style="list-style-type: none"> <li><b>Service class 3:</b> It is characterized by climatic conditions leading to higher moisture contents than in service class 2. External conditions.</li> </ul>	  

Service class 3 is the most restrictive, stainless Steel or hot dip galvanized connectors must be used to avoid the corrosion.

## LOAD DURATION CLASSES

The load-duration classes are characterized by the effect of a constant load acting for a certain period of time in the life of the structure. They are classified in the 5 classes below:

Load duration classes	Order of accumulated duration	Examples
Permanent	More than 10 years	Self-weight
Long-term	6 months – 10 years	Storage
Medium-term	1 week – 6 months	Imposed floor load, snow
Short-term	Less than one week	Snow, wind
Instantaneous	Minutes	Wind, accidental load

## DESIGN RESISTANCE

Wood connector design resistance must be checked that it shall be higher than applied loads. For that design resistance “ $R_d$ ” shall be calculated as:

$$R_d = k_{mod} \cdot \frac{R_k}{\gamma_M}$$

Where:

$k_{mod}$  Is a modification factor taking into account the effect of duration of load and moisture content

$R_k$  Is the characteristic value of load-carrying capacity

$\gamma_M$  Is the partial factor for a material property.

## COEFICIENTS

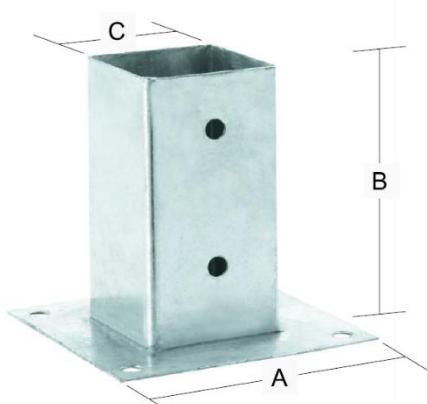
$k_{mod}$  factor depends of the effect of the duration of the load and moisture content. According to Eurocode 5, UNE-EN 1995-1-1 establish the values of this coefficient taking into account the effect of the duration of the load and service class:

Material	Service class	Modification factor “ $k_{mod}$ ”				
		Load duration classes				
		Permanent	Long-term	Medium-term	Short-term	Instantaneous
Solid timber Laminated timber Plywood 	1	0,60	0,70	0,80	0,90	1,10
	2	0,60	0,70	0,80	0,90	1,10
	3	0,50	0,55	0,65	0,70	0,90

## 1. INSTALATION DATA

### 1.1 AP-SB

#### Rectangular fence post shoe. Rectangular base



##### Properties



Steel

Atlantis C3-M coating

##### Base materials



Solid timber, plywood, laminated timber or concrete

##### Installation Data

Code	Dimensions [mm]				Fixing holes			
	A	B	C	Thick.	Base		Post	
APS871	150	150	71	Base = 1 / Post = 2	4	Ø10,5	4	Ø10,5
APS891	150	150	91	Base = 1 / Post = 2	4	Ø10,5	4	Ø10,5

##### Applications

###### Support material:

- Fixing timber-timber, timber-concrete

###### Application range:

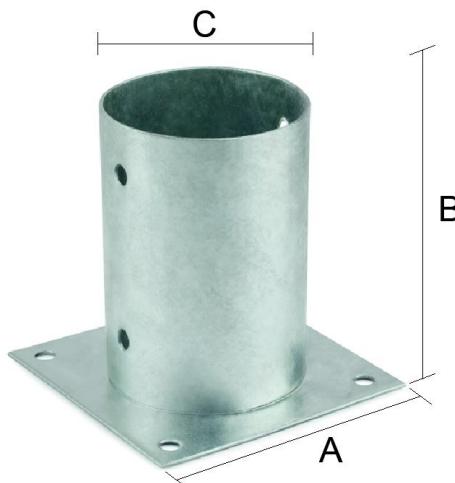
- Post base for small wooden structures, garden structures...

##### Fasteners

- High performance chipboard screw, TEX
- High performance screw, DIN-571
- Mechanical anchor, MTH or MTA, metric M10
- Chemical anchor + stud bolt metric 10

## 1.2 AP-SR

## Round fence post shoe bolt down square



## Properties



Steel

Atlantis C3-M coating

## Base materials



Solid timber, plywood, laminated timber or concrete

## Installation Data

Code	Dimensions [mm]				Fixing holes			
	A	B	A	Thick.	Base		Post	
					Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
APSR100	150	150	101	Base = 2 / Post = 2	4	Ø11	4	Ø11
APSR120	175	150	121	Base = 2 / Post = 2	4	Ø11	4	Ø11

## Applications

## Support material:

- Fixing timber-timber, timber-concrete

## Application range:

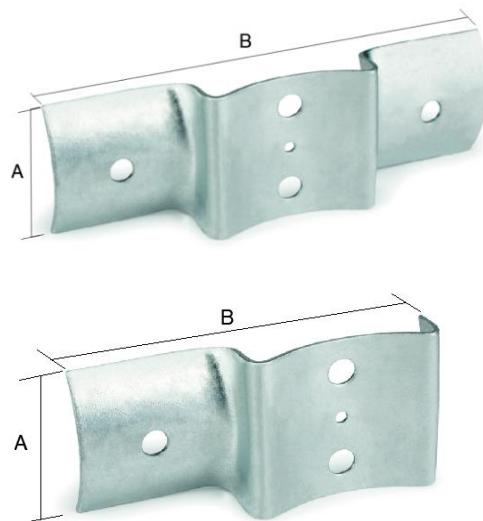
- Post base for small wooden structures, garden structures, fencing...

## Fasteners

- High performance chipboard screw, TEX
- High performance screw, DIN-571
- Mechanical anchor, MTH or MTA, metric M10
- Chemical anchor + stud bolt metric 10

## 1.3 AP-TJ

## Texan post clamp



## Properties



Steel

Atlantis C3-M coating

## Base materials



Solid timber, plywood, laminated timber

## Installation Data

Code	Dimensions [mm]			Fixing holes	
	A	B	Thick.	Holes Qty.	Holes Dia. [mm]
APTJ70200	70	208	2,5	4 / 1	Ø11 / Ø5
APTJ70117	70	148	2,5	3 / 1	Ø11 / Ø5

## Applications

## Support material:

- Fixing timber-timber, timber-concrete

## Application range:

- Post base for small wooden structures, garden structures, fencing...

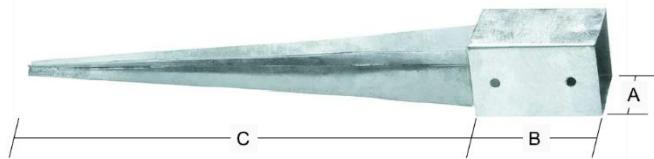
## Fasteners

## Timber base material:

- High performance chipboard screw, TEX
- High performance screw, DIN-571

## 1.4 AP-EN

## Post base drive in ground



Installation Data						
Code	Dimensions [mm]				Fixing holes	
					Post	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]
APEN71	71	150	600	2	4	Ø10,5
APEN91	91	150	600	2	4	Ø10,5

**Applications**

**Support material:**

- Fixing timber-ground

**Application range:**

- Post base for small wooden structures, garden structures.....

**Fasteners**

**Timber base material:**

- High performance chipboard screw, TEX Ø 10
- Bolts metric M10

**Ground base material:**

- Firmly fixed and buried to the ground.