



SO-UO



SO-UR



SC-EI



SC-GA



SC-LD



SC-ED



SC-RF



SC-RG



SC-AS



SC-CE



SC-OB



SC-CD Z



SC-CI



SC-EM



SC-ER



SC-GE Z



SC-MX



SC-PD



SC-RE Z



SC-LC Z



PT-BR



PT-EM



PT-OB



PT-UN



PT-ET



PT-TT



AP-AT



AP-AR



AP-FU Z



AP-UE Z



AP-PT



AP-FL



AP-PD



AP-PG



AP-SB



AP-EN

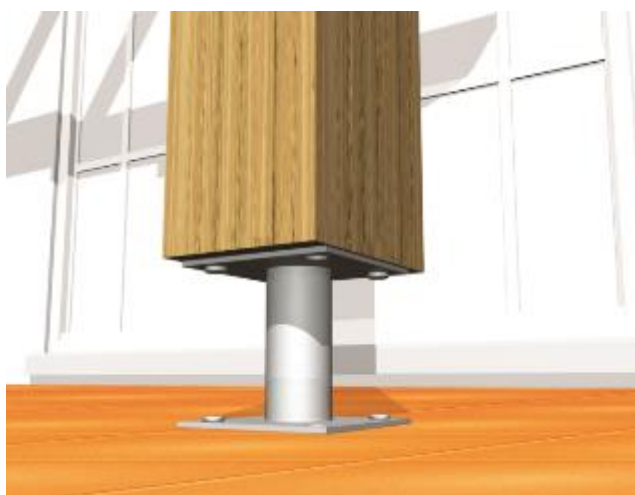
CHARACTERISTICS

- They allow great versatility in the assembly.
- Building quick and simple way, as well as adapting to all kinds of sloping, angles or complicated situations.
- They are ideal for the construction of roofing, pergolas, wooden deck, interior structures, etc.
- They make hard Wood structure building easier, as hard Woods are difficult to nail, as well as the joining of iron and concrete structures.
- They save time and labor, allowing structure pre-arming and a meticulous wood finish.

APPLICATIONS

- Wooden deck, pergola, garden structures, wooden fence, wooden lattice...

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:

Clases de servicio y acabado recomendado	
<ul style="list-style-type: none"> Service class 1: 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 	
<ul style="list-style-type: none"> Service class 2: 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. 	
<ul style="list-style-type: none"> Service class 3: It is characterized by climatic conditions leading to higher moisture contents than in service class 2. External conditions. 	

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

γ_M Is the partial factor for a material property.

COEFICIENTS

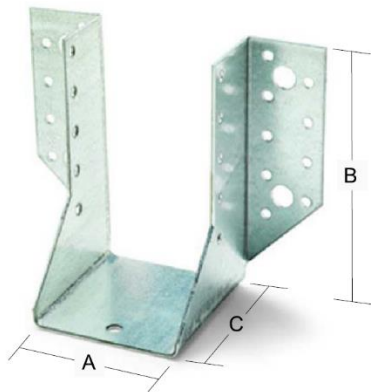
k_{mod} factor depends of the effect of the duration of the load and moisture content. According to Eurocode 5, UNE-EN 1995-1-1 establish the values of this coefficient taking into account the effect of the duration of the load and service class:

Modification factor “ k_{mod} ”						
Material	Service class	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. DATOS DE INSTALACIÓN

1.1 SO-UO

Perforated support



Properties



Steel DX51D



Pre-Galvanized coating Z-275

Base materials



Solid timber, plywood, laminated timber or concrete

Installation data

Code	Dimensions [mm]				Fixing holes			
					Header		Joist	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes qty.	Holes Dia. [mm]
SOU004110	40	110	80	2	4 / 14	Ø11 / Ø4,6	1 / 8	Ø7 / Ø4,6
SOU006100	60	100	80	2	4 / 14	Ø11 / Ø4,6	1 / 8	Ø7 / Ø4,6
SOU007125	70	125	80	2	4 / 18	Ø11 / Ø4,6	1 / 10	Ø7 / Ø4,6
SOU008120	80	120	80	2	4 / 18	Ø11 / Ø4,6	1 / 10	Ø7 / Ø4,6
SOU010140	100	140	80	2	4 / 22	Ø11 / Ø4,6	1 / 12	Ø7 / Ø4,6

Applications

Support material:

- **Header:** solid timber, plywood, laminated timber, concrete or steel.
- **Joist:** solid timber, plywood or laminated timber.

Application range:

- Timber beams, flat beams, joist, supported, reinforcements...

Fasteners

Timber base material:

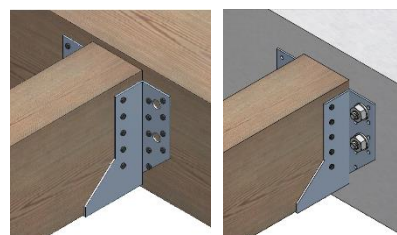
- Anchor nails, VMPF050
- Screws, TEX Ø4,5

Steel base material:

- Bolts metric M10

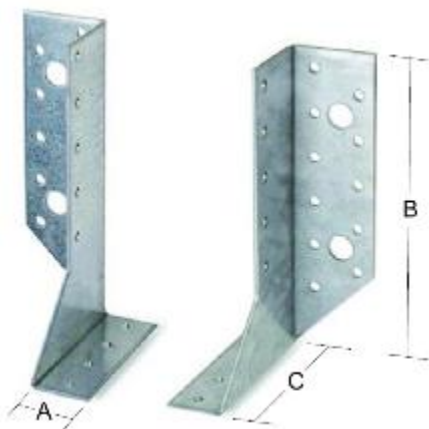
Concrete base material:

- Mechanical anchor, MTH M10 or MTP M10
- Chemical anchor, MOPOSE or MOEPSE + stud bolt metric 10, EQAC10130



1.2 SO-UR

Perforated support adjustable width



Properties



Steel DX51D



Pre-Galvanized coating Z-275

Base materials



Solid timber, plywood, laminated timber or concrete

Installation data

Code	Dimensions [mm]				Fixing holes			
					Header		Joist	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes qty.	Ø Holes [mm]
SOUR30140DR	26	140	76	2	2 / 11	Ø11 / Ø4,5	9	Ø4,5
SOUR30140IZ	26	140	76	2	2 / 11	Ø11 / Ø4,5	9	Ø4,5

Applications

Support material:

- **Header:** solid timber, plywood, laminated timber, concrete or steel.
- **Joist:** solid timber, plywood or laminated timber.

Application range:

- Timber beams, flat beams, joist, supported, reinforcements...

Fasteners

Timber base material:

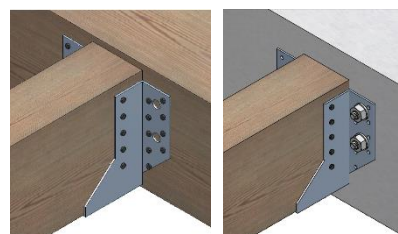
- Anchor nails, VMPF050
- High performance chipboard screw, TEX Ø4,5

Steel base material:

- Bolts metric M10

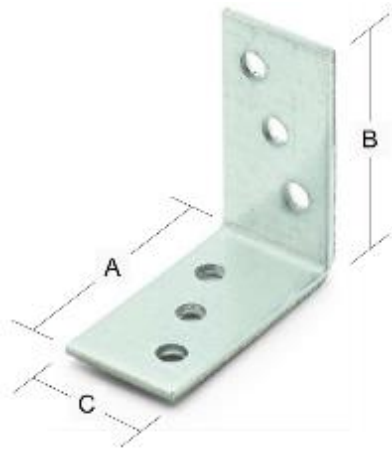
Concrete base material:

- Mechanical anchor, MTH M10 or MTP M10
- Chemical anchor, MOPOSE or MOEPSE + stud bolt metric 10, EQAC10130



1.3 SC-EI

Angled bracket perforated with equal holes



Properties



Steel DX51D

Pre-Galvanized coating Z-275

Base materials



Solid timber, plywood or laminated timber

Installation data

Code	Dimensions [mm]				Fixing holes	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]
SCEI040402	40	40	20	2	6	Ø4,5
SCEI040404	40	40	40	2	8	Ø4,6
SCEI040406	40	40	60	2	12	Ø4,6
SCEI050504	50	50	40	2	8	Ø4,6
SCEI060604	60	60	40	2	12	Ø5
SCEI060606	60	60	60	2	18	Ø5
SCEI060608	60	60	80	2	24	Ø4,6
SCEI070704	75	75	40	2	12	Ø5
SCEI080808	80	80	80	2	32	Ø4,6
SCEI101004	100	100	40	2	20	Ø4,6
SCEI101010	100	100	100	2,5	50	Ø4,6

Applications

Support material:

- Fixing timber-timber

Application range:

- Angled joints, beams, reinforcement of joints, wood studs...

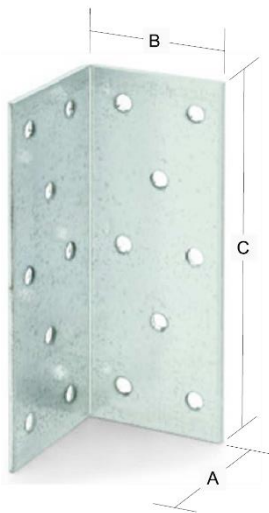
Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4,5

1.4 SC-GA

Angled bracket perforated large corner



Properties



Steel DX51D

Pre-Galvanized coating Z-275

Material Base



Solid timber, plywood or laminated timber

Installation data

Code	Dimensions [mm]				Fixing holes	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]
SCGA100404	40	40	100	2	16	Ø5

Applications

Support material:

- Fixing timber-timber

Application range:

- Angled joints, beams, reinforcement of joints, wood studs...

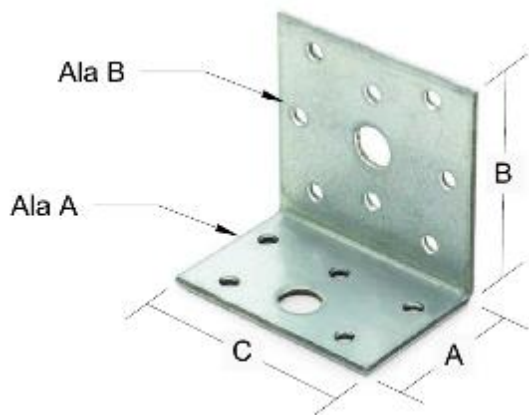
Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4,5

1.5 SC-LD

Assembling perforated angled bracket



Properties



Steel DX51D

Pre-Galvanized coating Z-275

Base materials



Solid timber, plywood, laminated timber or concrete

Installation data

Code	Dimensions [mm]				Fixing holes			
					Ala A		Ala B	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
SCLD040606	60	60	40	2,5	1 / 5	Ø11 / Ø5	1 / 8	Ø11 / Ø5
SCLD060806	60	80	60	2,5	1 / 5	Ø11 / Ø5	1 / 8	Ø11 / Ø5

Applications

Support material:

- Fixing timber-timber
- Fixing timber-steel
- Fixing timber-concrete

Application range:

- Angled joints, beams, reinforcement of joints, wood studs...

Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4,5

Steel base material:

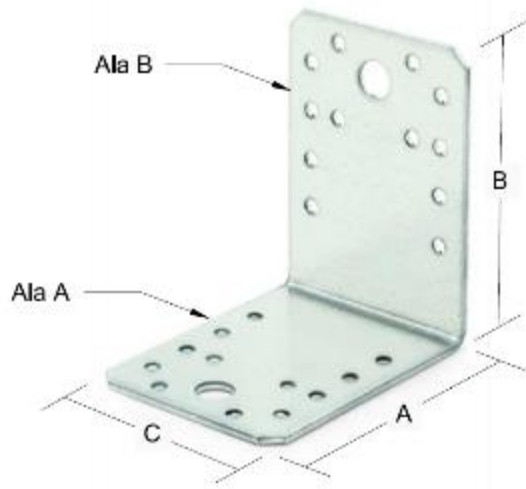
- Bolts metric M10

Concrete base material:

- Mechanical anchor, MTH M10 or MTP M10
- Chemical anchor, MOPOSE or MOEPSE + stud bolt metric 10, EQAC10130

1.6 SC-ED

Assembling perforated angled bracket



Properties



Steel DX51D

Pre-Galvanized coating Z-275

Material Base



Solid timber, plywood, laminated timber or concrete

Installation data

Code	Dimensions [mm]				Fixing holes			
					Ala A		Ala B	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
SCED050503	50	50	35	2,5	1 / 6	Ø11 / Ø4,5	1 / 6	Ø11 / Ø4,5
SCED060604	60	60	45	2,5	1 / 6	Ø10,4 / Ø4,8	1 / 6	Ø10,4 / Ø4,8
SCED070705	70	70	55	2,5	1 / 10	Ø10,4 / Ø4,6	1 / 10	Ø10,4 / Ø4,6
SCED090904	90	90	40	2,5	2 / 8	Ø10,4 / Ø4,6	2 / 8	Ø10,4 / Ø4,6
SCED090906	90	90	65	2,5	3 / 6	Ø12,8 / Ø4,6	2 / 9	Ø12,8 / Ø4,6
SCED101009	105	105	90	3	3 / 14	Ø12,8 / Ø4,6	2 / 15	Ø12,8 / Ø4,6

Applications

Support material:

- Fixing timber-timber
- Fixing timber-steel
- Fixing timber-concrete:

Application range:

- Angled joints, beams, reinforcement of joints, wood studs...

Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4,5

Steel base material:

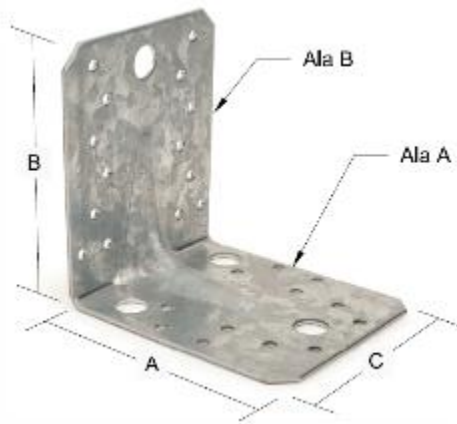
- Bolts metric M10

Concrete base material:

- Mechanical anchor, MTH M10 or MTP M10
- Chemical anchor, MOPOSE or MOEPSE + stud bolt metric 10, EQAC10130

1.7 SC-RF

Reinforced perforated angle bracket



Properties



Steel DX51D



Pre-Galvanized coating Z-275

Base materials



Solid timber, plywood, laminated timber or concrete

Installation data

Code	Dimensions [mm]				F			
					Ala A		Ala B	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
SCRF070605	77	64	50	2	2 / 6	Ø11 / Ø4,6	1 / 4	Ø11 / Ø4,6
SCRF070705	70	70	55	2,5	1 / 6	Ø11 / Ø4,6	1 / 6	Ø11 / Ø4,6
SCRF090906	90	90	65	2,5	1 / 12	Ø11 / Ø4,5	1 / 12	Ø11 / Ø4,5
SCRF101009	105	105	90	2,5	3 / 12	Ø13,4 / Ø4,6	1 / 14	Ø13,4 / Ø4,6
SCRF151506	150	150	65	2,5	3 / 13	Ø11 / Ø5	1 / 15	Slotted Ø11 x 32 / Ø4,6

Applications

Support material:

- Fixing timber-timber
- Fixing timber-steel
- Fixing timber-concrete:

Application range:

- Angled joints, beams, reinforcement of joints, wood studs...

Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4,5

Steel base material:

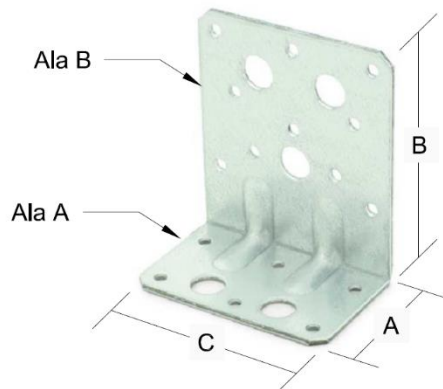
- Bolts metric M10 or M12

Concrete base material:

- Mechanical anchor, MTH or MTP, metric M10 or M12
- Chemical anchor, MOPOSE o MOEPSE + stud bolt metric 10 or 12, EQAC10130 or EQAC12160

1.8 SC-RG

Adjustable perforated angle bracket



Properties



Steel DX51D



Pre-Galvanized coating Z-275

Base materials



Solid timber, plywood, laminated timber or concrete

Installation data

Code	Dimensions [mm]				Fixing holes			
					Ala A		Ala B	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
SCRG090505	50	90	50	2,5	1 / 4	Ø11 / Ø4,6	2 / 10	Ø11 / Ø4,6
SCRG090508	50	90	80	2,5	2 / 6	Ø13 / Ø4,6	3 / 10	Ø13 / Ø4,6

Applications

Support material:

- Fixing timber-timber
- Fixing timber-steel
- Fixing timber-concrete:

Application range:

- Angled joints, beams, reinforcement of joints, wood studs...

Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4,5

Steel base material:

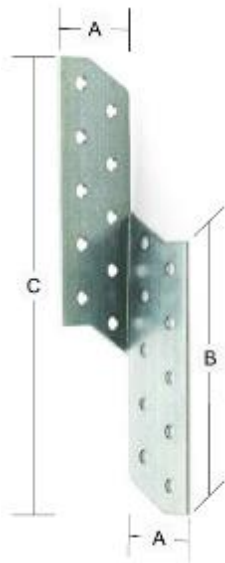
- Bolts metric M10 or M12

Concrete base material:

- Mechanical anchor, MTH or MTP, metric M10 or M12
- Chemical anchor, MOPOSE o MOEPSE + stud bolt metric 10 or 12, EQAC10130 or EQAC12160

1.9 SC-AS

Asymmetric strap , right or left



Properties



Steel DX51D

Pre-Galvanized coating Z-275

Base materials



Solid timber, plywood or laminated timber

Installation data

Code	Dimensions [mm]				Fixing holes			
					Ala A		Ala B	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
SCAS3317DR	32	100	170	2	10	Ø5	10	Ø5
SCAS3317IZ	32	100	170	2	10	Ø5	10	Ø5

Applications

Support material:

- Fixing timber-timber

Application range:

- Angled joints for overlapping pieces

Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4,5

1.10 SC-CE

Bracket for concrete

Properties



Steel DX51D



Pre-Galvanized coating Z-275

Base materials



Solid timber, plywood, laminated timber or concrete

Installation data

Code	Dimensions [mm]				Fixing holes			
					Ala A		Ala B	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
SCCE200404	40	200	40	2,0	4	Ø5/Ø11	15	Ø5

Applications

Support material:

- Fixing timber-timber
- Fixing timber-concrete

Application range:

- Angled joints, post to floor, wood studs...

Fasteners

Timber base material:

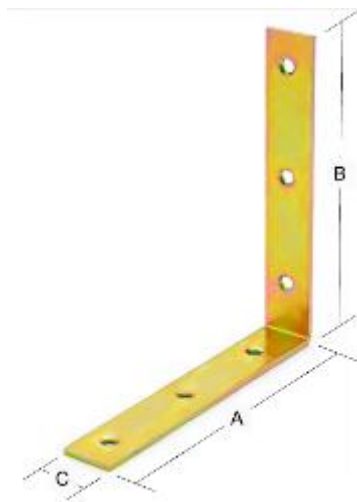
- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4

Concrete base material:

- Hammerfix anchor, TC-CA Ø5
- Nylon plug, TN4S Ø5x25

1.11 SC-OB

Symmetric bracket, bevelled-edge holes on both sides



Properties



Steel DX51D

Yellow zinc-plated coating

Base materials



Solid timber, plywood or laminated timber

Installation Data

Code	Dimensions [mm]				Fixing holes			
					Ala A		Ala B	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
SCOB020214	25	25	15	1,8	2	Ø4	2	Ø4
SCOB030314	30	30	15	2	2	Ø4,6	2	Ø4,6
SCOB040415	40	40	15	1,8	2	Ø4,5	2	Ø4,5
SCOB050515	50	50	15	2	2	Ø5	2	Ø5
SCOB060618	60	60	16	2	2	Ø5	2	Ø5
SCOB070718	75	75	18	2	2	Ø5,2	2	Ø5,2
SCOB090920	90	90	20	2	2	Ø6,5	2	Ø6,5
SCOB101020	100	100	20	2	3	Ø5,5	3	Ø5,5
SCOB121222	125	125	22	2,5	3	Ø5,5	3	Ø5,5
SCOB151525	150	150	25	3	3	Ø5,5	3	Ø5,5

Applications

Support material:

- Fixing timber-timber

Application range:

- Angled joints non-structural application, chairs, tables, furniture...

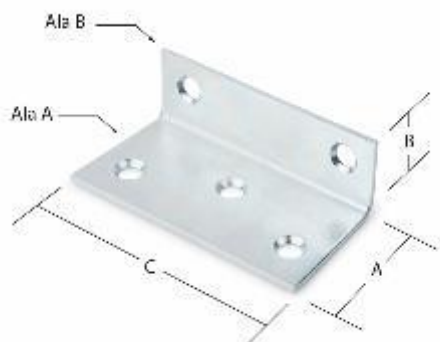
Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø3,5; Ø4; Ø4,5; Ø5; Ø6

1.12 SC-CD Z

Zinc-plated large bracket, unequal-sided



Properties



Steel DX51D



Zinc-plated coating

Base materials



Solid timber, plywood or laminated timber

Installation Data

Code	Dimensions [mm]				Fixing holes			
					Ala A		Ala B	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
SCCDZ402575	40	25	75	2	3	Ø4,5	2	Ø4,5

Applications

Support material:

- Fixing timber-timber

Application range:

- Angled joints non-structural application, reinforcements of joints, furniture...

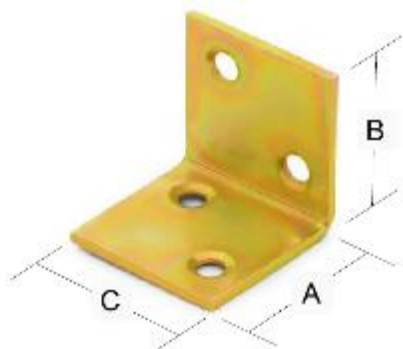
Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø3,5; Ø4; Ø4,5

1.13 SC-CI

Bracket equal-sided



Properties



Steel

Yellow zinc-plated coating

Base materials



Solid timber, plywood or laminated timber

Installation Data

Code	Dimensions [mm]				Fixing holes			
					Ala A		Ala B	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
SCCI303030	30	30	30	2	2	Ø4,6	2	Ø4,6
SCCI404040	40	40	40	2	2	Ø4,6	2	Ø4,6
SCCI606060	60	60	60	2	4	Ø4,5	4	Ø4,5

Applications

Support material:

- Fixing timber-timber

Application range:

- Angled joints non-structural application, reinforcements of joints, furniture...

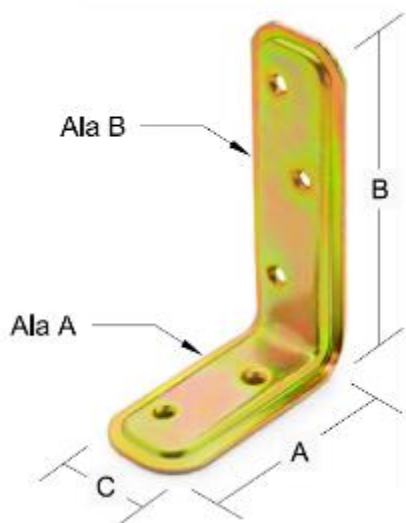
Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPPF050
- High performance chipboard screw, TEX Ø4; Ø4,5

1.14 SC-EM

Bracket to be embedded



Properties



Steel



Yellow zinc-plated coating

Base materials



Solid timber, plywood or laminated timber

Installation Data

Code	Dimensions [mm]				Fixing holes			
					Ala A		Ala B	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
SCEM081240	80	120	40	1,6	2	Ø4,7	3	Ø4,7
SCEM101640	100	160	37	2	2	Ø4,5	3	Ø4,5

Applications

Support material:

- Fixing timber-timber

Application range:

- Angled joints non-structural application, reinforcements of joints, furniture...

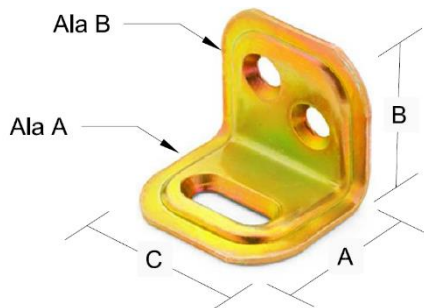
Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4; Ø4,

1.15 SC-ER

Bracket adjustable to be embedded



Properties



Steel

Yellow zinc-plated coating

Base materials



Solid timber, plywood or laminated timber

Installation Data

Code	Dimensions [mm]				Fixing holes			
					Ala A		Ala B	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
SCER302525	25	25	30	1,2	1	Slotted $\varnothing 4,5 \times 14$	2	$\varnothing 4,5$
SCER392822	39	28	22	1	1	Slotted $\varnothing 4,5 \times 16$	1	$\varnothing 4,5$

Applications

Support material:

- Fixing timber-timber

Application range:

- Angled joints non-structural application, reinforcements of joints, furniture...

Fasteners

Timber base material:

- Anchor nails, $\varnothing 4 \times 50$ VMPF050
- High performance chipboard screw, TEX $\varnothing 4$

1.16 SC-GE Z

Zinc-plated big bracket adjustable to be embedded



Properties



Steel



zinc-plated coating

Base materials



Solid timber, plywood or laminated timber

Installation Data

Code	Dimensions [mm]				Fixing holes			
	A	B	C	Thick.	Ala A		Ala B	
					Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
SCGEZ704025	25	40	70	1,5	2	Ø4,5	3	Ø4,5

Applications

Support material:

- Fixing timber-timber

Application range:

- Angled joints non-structural application, reinforcements of joints, furniture...

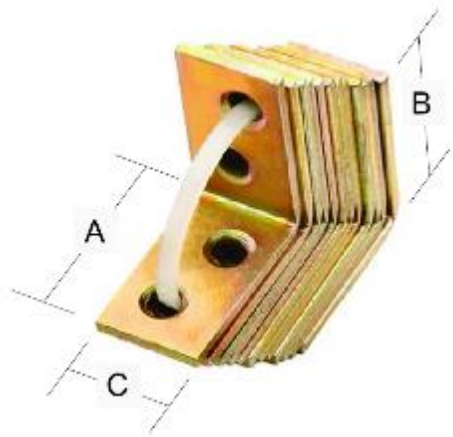
Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4

1.17 SC-MX

Bracket pack for chairs



Properties



Steel



Yellow zinc-plated coating

Base materials



Solid timber, plywood or laminated timber

Installation Data

Code	Dimensions [mm]				Fixing holes			
					Ala A		Ala B	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
SCMX020214	25	25	14	1,8	2	Ø4	2	Ø4
SCMX030314	30	30	14	1,8	2	Ø4	2	Ø4
SCMX040415	40	40	15	1,8	2	Ø4,2	2	Ø4,2
SCMX050515	50	50	15	1,8	2	Ø4,6	2	Ø4,6
SCMX060618	60	60	18	1,8	2	Ø4,5	2	Ø4,5
SCMX070718	75	75	18	2	2	Ø5	2	Ø5

Applications

Support material:

- Fixing timber-timber

Application range:

- Angled joints non-structural application, reinforcements of joints, chairs, tables, furniture...

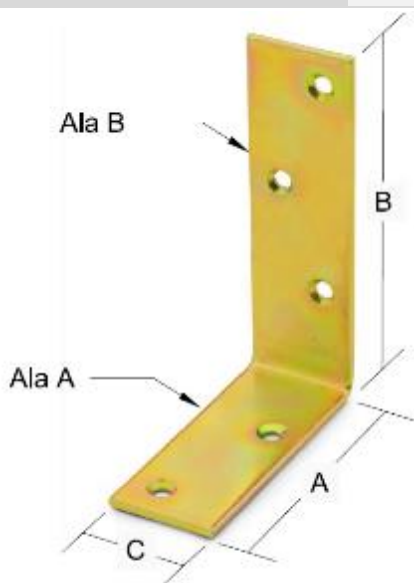
Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø3,5; Ø4; Ø4,5

1.18 SC-PD

Bracket for posts, unequal-sided



Properties



Steel



Yellow zinc-plated coating

Base materials



Solid timber, plywood or laminated timber

Installation Data

Code	Dimensions [mm]				Fixing holes			
	A	B	C	Thick.	Ala A		Ala B	
					Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
SCPD107530	75	100	30	2,5	2	Ø5	3	Ø5
SCPD128035	80	120	35	3,5	3	Ø4,5	4	Ø4,5

Applications

Support material:

- Fixing timber-timber

Application range:

- Angled joints non-structural application, posts, reinforcements of joints, furniture...

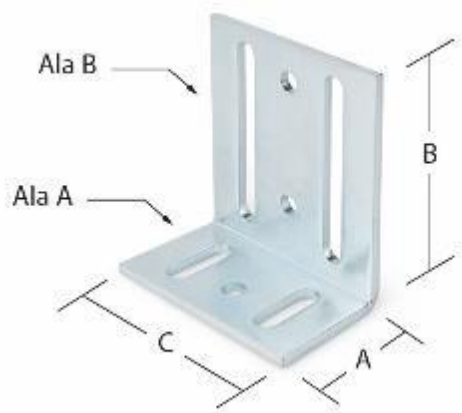
Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4; Ø4,5

1.19 SC-RE Z

Adjustable zinc-plated bracket, unequal-sided



Properties



Steel

Zinc-plated coating

Base materials



Solid timber, plywood or laminated timber

Installation Data

Code	Dimensions [mm]				Fixing holes			
					Ala A		Ala B	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
SCREZ357565	35	75	65	3,5	1 / 2	Ø6,5 / Slotted Ø7x14,5	2 / 2	Ø6,5 / Slotted Ø7x52

Applications

Support material:

- Fixing timber-timber

Application range:

- Angled joints non-structural application, posts, reinforcements of joints, furniture...

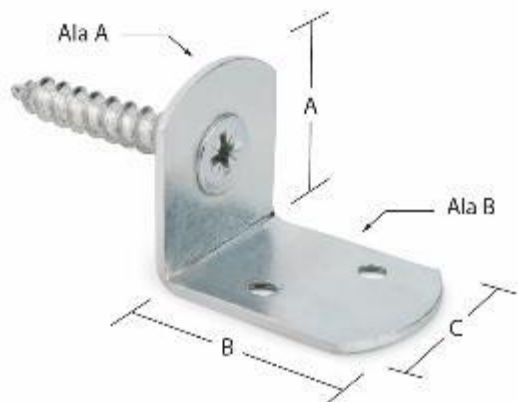
Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4; Ø4,5

1.20 SC-LC Z

Bracket zinc-plated L-shaped with welded screw for fence panels



Properties



Steel

Zinc-plated coating

Base materials



Solid timber, plywood or laminated timber

Installation Data

Code	Dimensions [mm]				Fixing holes		
	A	B	C	Thick.	Ala A	Ala B	
					Screw	Holes Qty.	Holes Dia. [mm]
SCLCZ354030	34	38	30	2	Ph n°2 recess	2	Ø4,5

Applications

Support material:

- Fixing timber-timber

Application range:

- Join of wooden lattice to garden posts, it is fixed to the timber post directly, wooden fence...

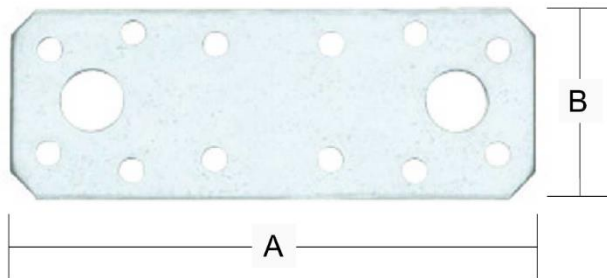
Fasteners

Timber base material:

- High performance chipboard screw, TEX Ø4,5

1.21 PT-BR

Flat connector



Properties



Steel DX51D



Pre-Galvanized coating Z-275

Material Base



Solid timber, plywood, laminated timber or concrete

Installation Data

Code	Dimensions [mm]			Fixing holes	
	A	B	Thick.	Holes Qty.	Holes Dia. [mm]
PTBR10035	95	35	2,5	2 / 12	Ø11 / Ø4,5
PTBR13355	135	55	2,5	2 / 20	Ø10,4 / Ø4,6

Applications

Support material:

- Fixing timber-timber

Application range:

Joints post-beam, joints between two pieces, joints between beams and slab concrete, reinforcements of joints...

Fasteners

Timber base material:

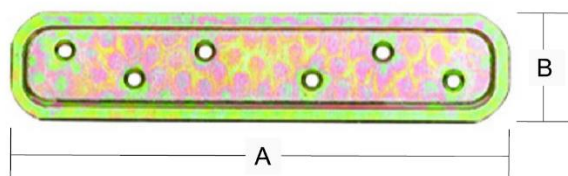
- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4,5

Concrete base material:

- Mechanical anchor, MTH or MTP, metric M10
- Chemical anchor, MOPOSE or MOEPSE + stud bolt metric 10, EQAC10130

1.22 PT-EM

Flat connector to be embedded



Properties



Steel DX51D



Yellow zinc-plated coating

Base materials



Solid timber, plywood or laminated timber

Installation Data

Code	Dimensions [mm]			Fixing holes	
	A	B	Thick.	Holes Qty.	Holes Dia. [mm]
PTEM18040	190	40	2	6	Ø4,7

Applications

Support material:

- Fixing timber-timber

Application range:

- Joints post-beam, joints between two pieces, reinforcements of joints...

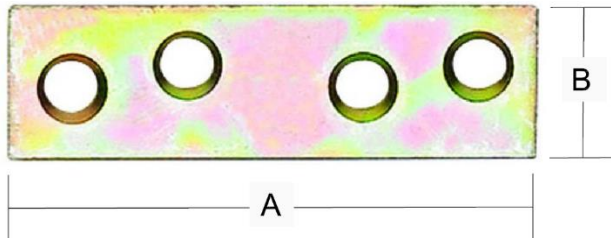
Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPPF050
- High performance chipboard screw, TEX Ø4,5

1.23 PT-OB

Flat connector with bevelled-edge holes on both sides



Properties



Steel DX51D



Yellow zinc-plated coating

Base materials



Solid timber, plywood or laminated timber

Installation Data

Code	Dimensions [mm]			Fixing holes	
	A	B	Thick.	Holes Qty.	Holes Dia. [mm]
PTOB05015	50	15	1,6	4	Ø4,7
PTOB06015	60	15	2	4	Ø4,6
PTOB08015	80	15	1,8	4	Ø4,7
PTOB10015	100	15	1,8	4	Ø5
PTOB12020	120	20	2	4	Ø5,6

Applications

Support material:

- Fixing timber-timber

Application range:

- Non structural joints, joints between two pieces, reinforcements of joints...

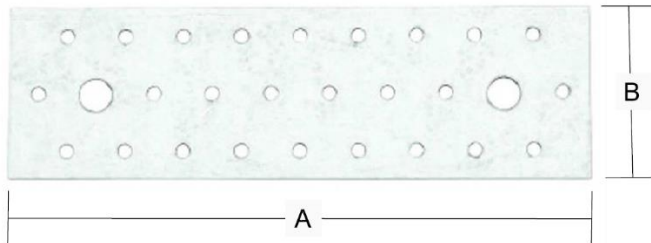
Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4,5

1.24 PT-UN

Perforated flat connector



Properties

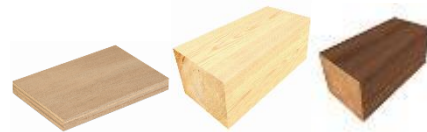


Steel DX51D



Pre-Galvanized coating Z-275

Base materials



Solid timber, plywood or laminated timber

Installation Data

Code	Dimensions [mm]			Fixing holes	
	A	B	Thick.	Holes Qty.	Holes Dia. [mm]
PTUN12038	120	40	2	12	Ø4,6
PTUN16038	160	40	2	16	Ø4,6
PTUN20060	200	60	2	30	Ø4,6
PTUN20080	200	80	2	40	Ø4,6
PTUN24060	240	60	2	36	Ø4,6
PTUN24080	240	80	2	48	Ø4,6

Applications

Support material:

- Fixing timber-timber

Application range:

Joints, joints between two pieces, reinforcements of joints

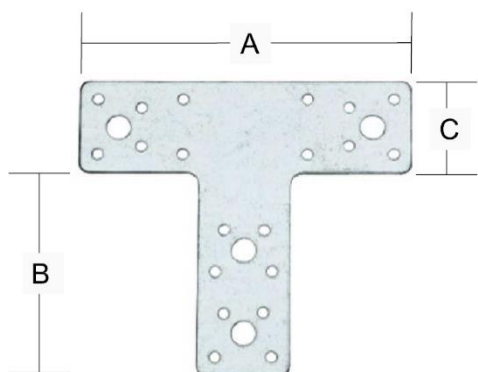
Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4,5

1.25 PT-ET

Flat connector T-shaped



Properties



Steel DX51D

Pre-Galvanized coating Z-275

Base materials



Solid timber, plywood or laminated timber

Installation Data

Code	Dimensions [mm]				Fixing holes	
	A	B	C	Thick.	Holes Qty	Holes Dia. [mm]
PTET169845	160	98	45	2,5	4 / 20	Ø11 / Ø4,6

Applications

Support material:

- Fixing timber-timber

Application range:

- Reinforcement of joints, joints post-beam, reinforcement windows, door frames...

Fasteners

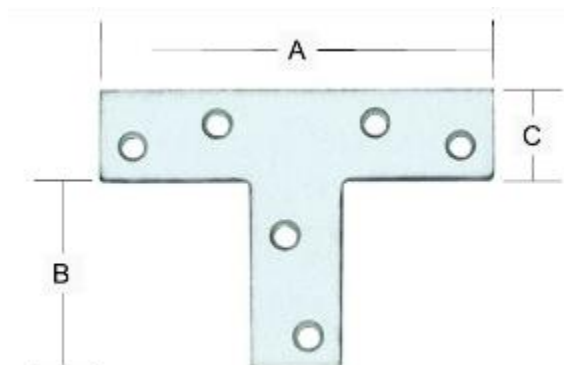
Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø4,5



1.26 PT-TT

Flat connector T-shaped



Properties



Steel DX51D

Pre-Galvanized coating Z-275

Base materials



Solid timber, plywood or laminated timber

Installation Data

Code	Dimensions [mm]				Fixing holes	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]
PTTT030716	70	35	16	1,5	6	Ø4,3
PTTT111430	140	80	30	2	6	Ø5

Applications

Support material:

- Fixing timber-timber

Application range:

- Reinforcement of joints, joints post-beam, reinforcement windows, door frames...

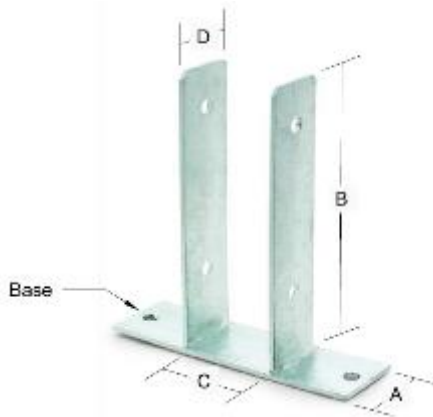
Fasteners

Timber base material:

- Anchor nails, Ø4 x 50 VMPF050
- High performance chipboard screw, TEX Ø3,5; Ø4,5

1.27 AP-AT

Post base U-shaped



Properties



Steel

Galvanized coating Z-275

Base materials



Solid timber, plywood, laminated timber or concrete

Installation Data

Code	Dimensions [mm]					Fixing holes			
						Base		Post	
	A	B	C	D	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
APAT071	60	200	71	50	4	2	Ø10,5	4	Ø10,5
APAT091	60	200	91	50	4	2	Ø10,5	4	Ø10,5
APAT101	58	200	101	48	4	2	Ø10,5	4	Ø10,5

Applications

Support material:

- Fixing timber-timber
- Fixing timber-concrete

Application range:

Joints post of wooden deck, wooden fence, garden structures

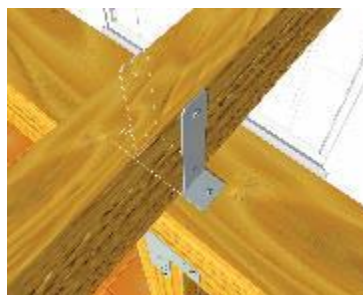
Fasteners

Timber base material:

- High performance chipboard screw, TEX Ø10
- Bolts metric M10

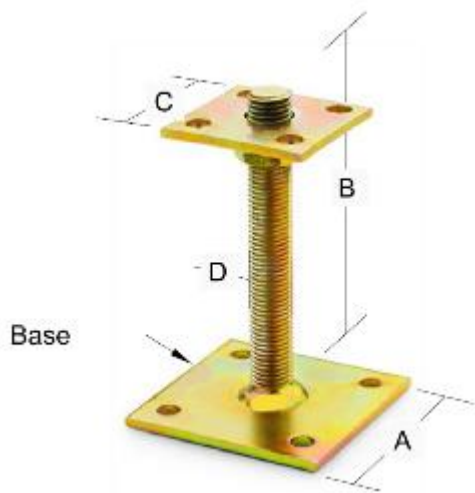
Concrete base material:

- Mechanical anchor, MTH M10 or MTP M10
- Chemical anchor, MOPOSE or MOEPSE + stud bolt metric 10, EQAC10130



1.28 AP-AR

Post base height adjustable



Properties



Steel

Yellow zinc-plated coating

Base materials



Solid timber, plywood, laminated timber or concrete

Installation Data

Code	Dimensions [mm]					Fixing holes				Characteristic resistance Compression F _k [kN]
						Base		Post		
	A	B	C	D	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]	
APAR070	100	150	70	M20	5	4	Ø11	4	Ø11	50,7
APAR150	100	150	150	M20	5	4	Ø11	4	Ø11	57,1

Applications

Support material:

- Fixing timber-timber, timber-concrete

Application range:

- Adjustable height post base, wooden structures...

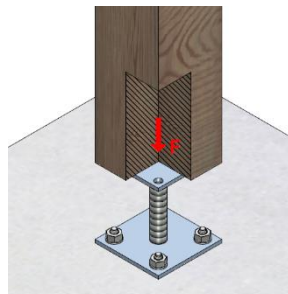
Fasteners

Timber base material:

- High performance chipboard screw, TEX Ø10
- Bolts metric M10

Concrete base material:

- Mechanical anchor, MTH M10 or MTP M10
- Chemical anchor, MOPOSE or MOEPSE + stud bolt metric 10, EQAC10130



1.29 AP-FU Z

Post base U-shaped adjustable width



Properties



Steel

Zinc-plated coating

Base materials



Solid timber, plywood, laminated timber or concrete

Installation Data

Code	Dimensions [mm]						Fixing holes				Characteristic resistance Compression F _k [kN]
							Base		Post		
	A ₁ xA ₂	B	C	D	E	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]	
APFUZ100	100x70	100	60 -140	115	70	4.5	4	Ø11	6+8	Ø11/Ø7	22,1

Applications

Support material:

- Fixing timber-timber, timber-concrete

Application range:

- Adjustable width post base, wooden structures...

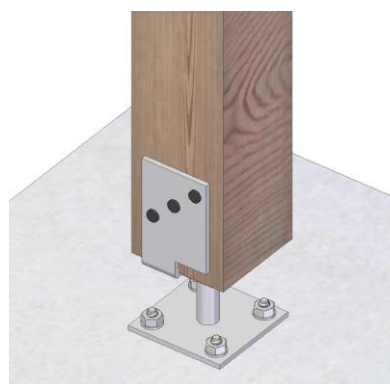
Fasteners

Timber base material:

- High performance chipboard screw, TEX Ø10
- Bolts metric M10

Concrete base material:

- Mechanical anchor, MTH M10 or MTP M10
- Chemical anchor, MOPOSE or MOEPSE + stud bolt metric 10, EQAC10130



1.30 AP-UE Z

Post base U-shaped, adjustable width with welded corrugated Steel bar



Properties



Steel

Zinc-plated coating

Base materials



Solid timber, plywood, laminated timber or concrete

Installation Data

Code	Dimensions [mm]						Fixing holes		Characteristic resistance
							Post		
	A	B	C	D	E	Thick.	Holes Qty.	Holes Dia. [mm]	Compression F _k [kN]
APUEZ200	200	∅20	60 -140	115	70	4,5	6+8	∅11/∅7	22,1

Applications

Support material:

- Fixing timber-timber, timber-concrete

Application range:

- Adjustable width post base, wooden structures...

Fasteners

Timber base material:

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

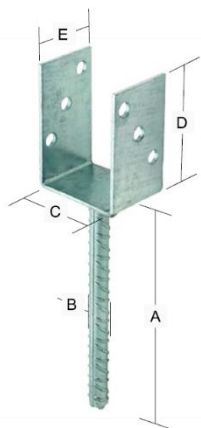
Concrete base material:

- Embedded in concrete
- Chemical resin, MOPOSE o MOEPSE



1.31 AP-PT

Post base U-shaped, with welded corrugated steel bar



Properties



Steel

Hot-Galvanized

Base materials



Solid timber, plywood, laminated timber or concrete

Installation Data

Code	Dimensions [mm]						Fixing holes		Characteristic resistance
							Post		
	A	B	C	D	E	Thick.	Holes Qty.	Holes Dia. [mm]	Compression F _k [kN]
APPT071	200	∅19	71	100	60	4	6	∅10,5	48,3
APPT091	200	∅19	91	100	60	4	6	∅10,5	48,3
APPT101	200	∅19	101	100	60	4	6	∅10,5	48,3

Applications

Support material:

- Fixing timber-timber, timber-concrete

Application range:

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

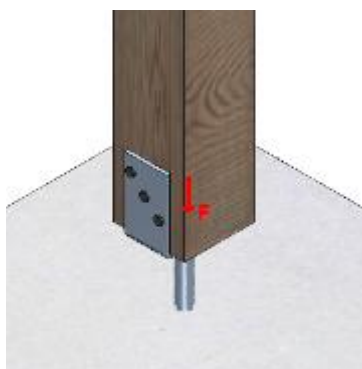
Fasteners

Timber base material:

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

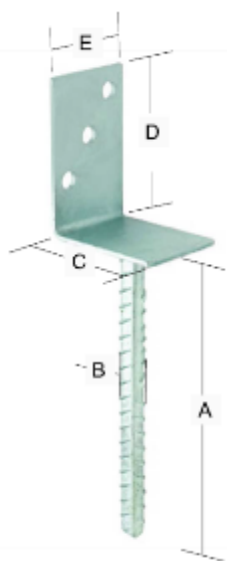
Concrete base material:

- Embedded in concrete.
- Chemical resin, MOPOSE o MOEPSE



1.32 AP-FL

Post base L-shaped, with welded corrugated steel bar



Properties



Steel



Hot-Galvanized

Base materials



Solid timber, plywood, laminated timber or concrete

Installation Data

Code	Dimensions [mm]						Fixing holes		Characteristic resistance
							Post		
	A	B	C	D	E	Thick.	Holes Qty.	Holes Dia. [mm]	Compression F _k [kN]
APFL801020	200	∅19	80	100	60	4	3	∅10,5	33,8

Applications

Support material:

- Fixing timber-timber, timber-concrete

Application range:

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

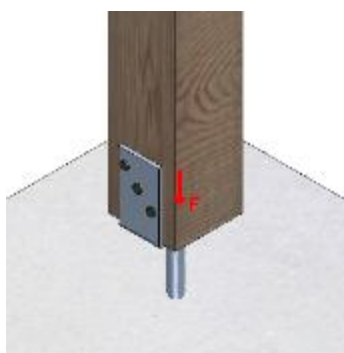
Fasteners

Timber base material:

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

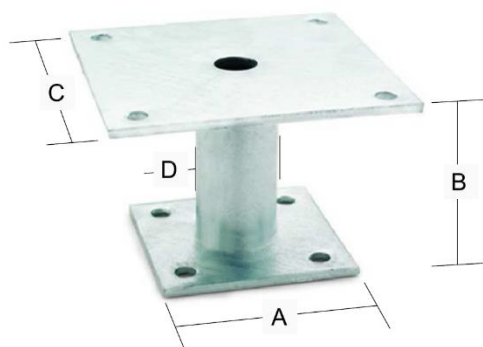
Concrete base material:

- Embedded in concrete
- Chemical resin, MOPOSE o MOEPSE



1.33 AP-PD

Post base, unequal-sided



Properties



Steel

Pre-Galvanized coating Z-275

Base materials



Solid timber, plywood, laminated timber or concrete

Installation Data

Code	Dimensions [mm]					Fixing holes				Characteristic resistance Compression F _k [kN]
						Base 1		Base 2		
	A	B	C	D	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]	
APPD100	100	100	150	43	5	4	Ø10,5	4	Ø10,5	76,4

Applications

Support material:

- Fixing timber-timber, timber-concrete

Application range:

- Post base for wooden deck, wooden structures, garden structures...
- Maximum recommended post sizes 200 x 200 mm
- The higher surface plate fixes to the ground

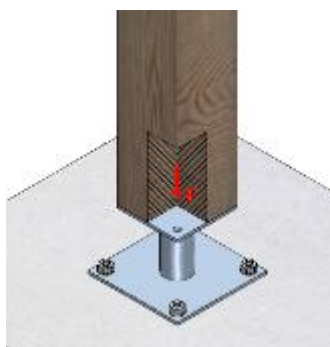
Fasteners

Timber base material:

- High performance chipboard screw, TEX Ø10
- Bolts metric M10

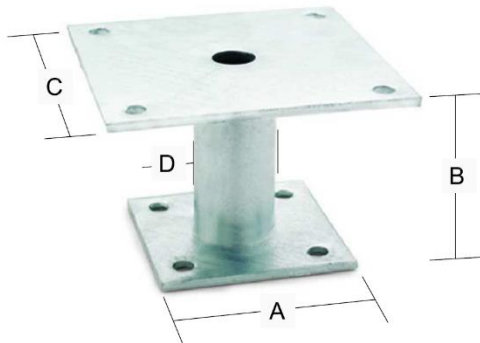
Concrete base material:

- Mechanical anchor, MTH M10 or MTP M10
- Chemical anchor, MOPOSE or MOEPSE + stud bolt metric 10, EQAC10130



1.34 AP-PG

Post base, equal-sided



Properties



Steel

Pre-Galvanized coating Z-275

Base materials



Solid timber, plywood, laminated timber or concrete

Installation Data

Code	Dimensions [mm]					Fixing holes				Characteristic resistance
						Base 1		Base 2		
	A	B	C	D	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]	Compression F _k [kN]
APPG070	90	70	80	27	4	4	Ø8,5	4	Ø8,5	36,9
APPG100	100	100	100	42	5	4	Ø10,5	4	Ø10,5	36,6

Applications

Support material:

- Fixing timber-timber, timber-concrete

Application range:

- Post base for wooden deck, wooden structures, garden structures...
- Maximum recommended post sizes 200 x 200 mm

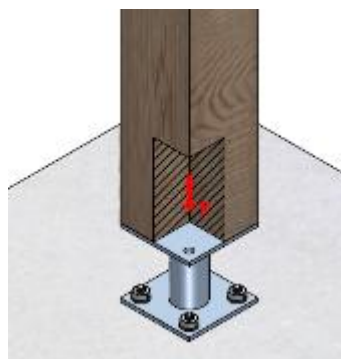
Fasteners

Timber base material:

- High performance chipboard screw, TEX Ø8; Ø10
- Bolts metric M8 or M10

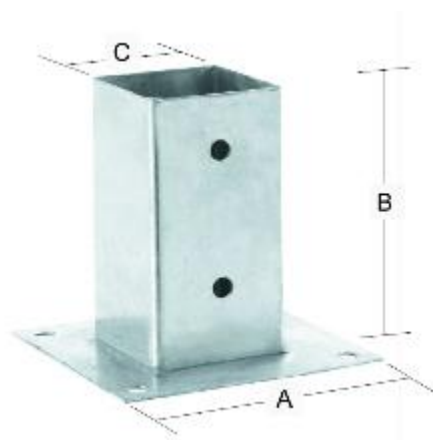
Concrete base material:

- Mechanical anchor, MTH or MTP , metric M8 or M10
- Chemical anchor, MOPOSE o MOEPSE + stud bolt metric 8 or 10, EQAC08110 or EQAC10130



1.35 AP-SB

Post base



Properties



Steel

Pre-Galvanized coating Z-275

Base materials



Solid timber, plywood, laminated timber or concrete

Installation Data

Code	Dimensions [mm]				Fixing holes			
					Base		Post	
	A	B	C	Thick.	Holes Qty.	Holes Dia. [mm]	Holes Qty.	Holes Dia. [mm]
APSB71	150	150	71	Base = 1 / Post = 2	4	Ø10,5	4	Ø10,5
APSB91	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

Timber base material:

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

Concrete base material:

- Mechanical anchor, MTH or MTP , metric M10
- Chemical anchor, MOPOSE or MOEPSE + stud bolt metric 10, EQAC10130

1.36 AP-EN

Post base drive in ground



Properties



Steel



Pre-Galvanized coating Z-275

Base materials



Solid timber, plywood or laminated timber

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.