EASY TIE

"T" SHAPED POST BASE FOR DIY

- Concealed post base kit available in 5 versions for posts from 90 x 90 mm to 200 x 200 mm
- The practical kit includes the post base, elevation element, washers and self-drilling dowels, which eliminate the need for a pre-drilling in timber, simplifying installation and tolerance management
- The 25 mm elevation element allows the bottom plate to be hidden, providing excellent aesthetic results while increasing the durability of the timber

SERVICE CLASS	SC3	MATERIAL	S235 HDG55

F80 SMALL

CODE	height [mm]	bottom plate [mm]	base holes [n. x mm]	knife plate thickness [mm]
F80SMALL	160	80 x 78 x 3	2 x Ø13	3

Product not sold individually, only as part of the kit.

F80 LARGE

CODE	height [mm]	bottom plate [mm]	base holes [n. x mm]	knife plate thickness [mm]
F80LARGE	160	114 x 86 x 3	2 x Ø13	3

Product not sold individually, only as part of the kit.

LIFT

CODE	height [mm]	plate [mm]	thickness [mm]	suitable for	pcs
LIFT44	25	89 x 89	3	F80SMALL	1
LIFT120	25	120 x 120	3	F80SMALL	1
LIFT66	25	136 x 136	3	F80LARGE	1
LIFT160	25	160 x 160	3	F80LARGE	1
LIFT88	25	184 x 184	3	F80LARGE	1

EASY TIE 89

CODE	pcs
EASYTIE089	1

2x ULS13373 | 2x SBD7575 | 1x F80SMALL | 1x LIFT44

EASY TIE 120

CODE	pcs
EASYTIE120	1

2x ULS13373 | 2x SBD75115 | 1x F80SMALL | 1x LIFT120

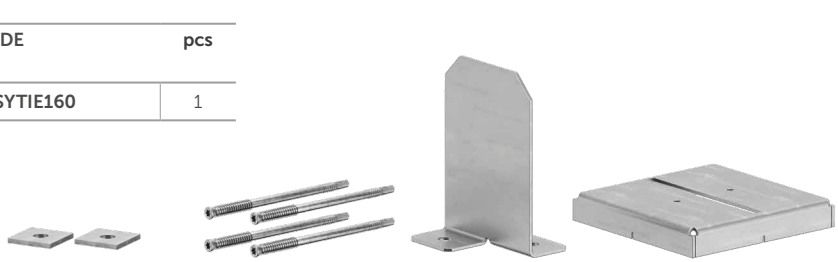
EASY TIE 136

CODE	pcs
EASYTIE136	1

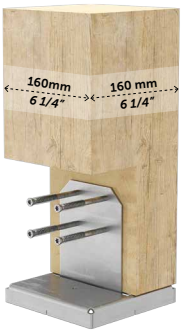
2x ULS13404 | 4x SBD75115 | 1x F80LARGE | 1x LIFT66

EASY TIE 160

CODE	pcs
EASYTIE160	1

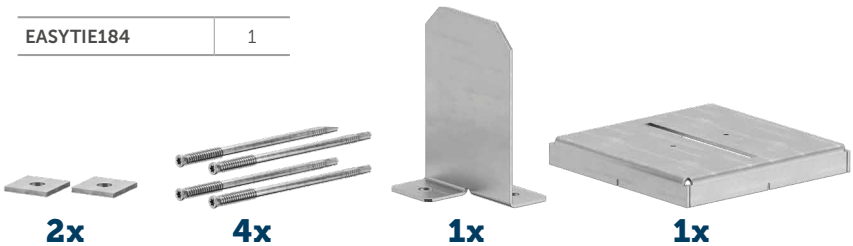


2x ULS13404 | 4x SBD75155 | 1x F80LARGE | 1x LIFT160

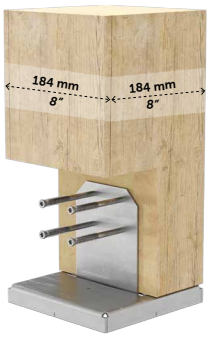


EASY TIE 184

CODE	pcs
EASYTIE184	1

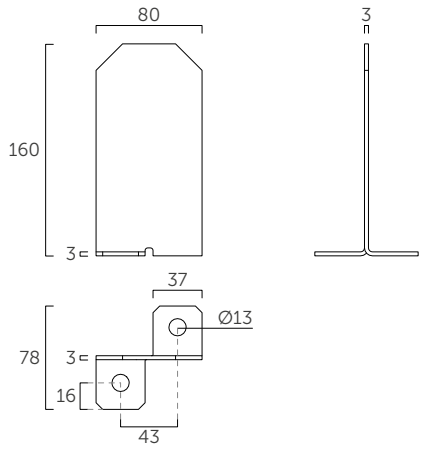


2x ULS13404 | 4x SBD75175 | 1x F80LARGE | 1x LIFT88

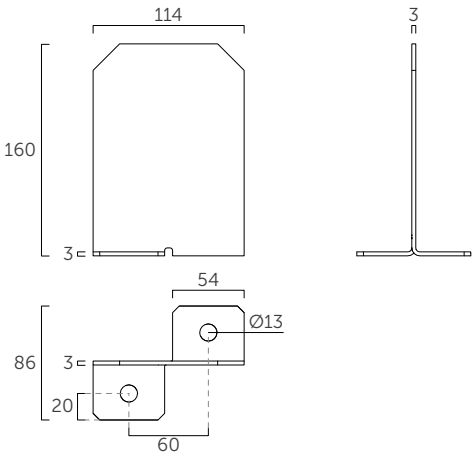


GEOMETRY

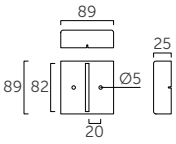
F80SMALL



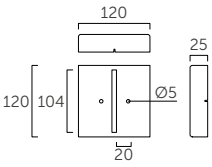
F80LARGE



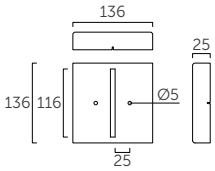
LIFT44



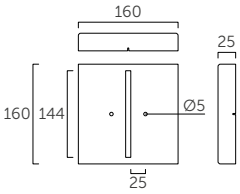
LIFT120



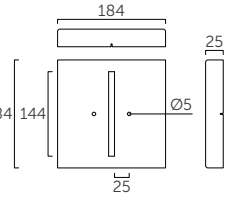
LIFT66



LIFT160

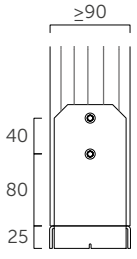


LIFT88

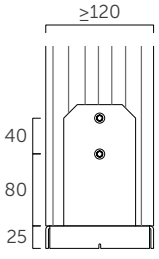


FASTENING CONFIGURATIONS

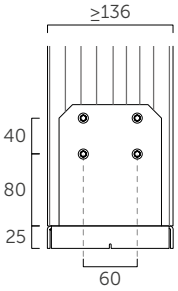
EASYTIE89



EASYTIE120



EASYTIE136



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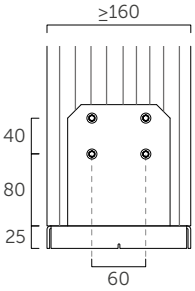
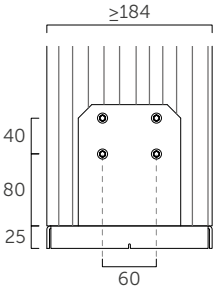
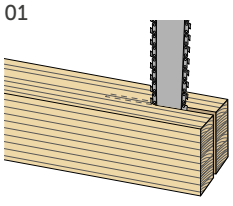


EASYTIE184



ASSEMBLY

01



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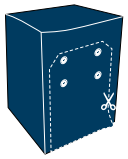

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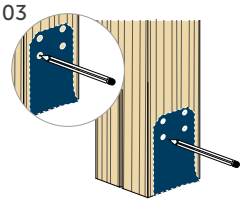

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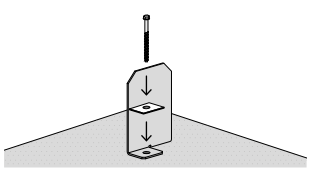

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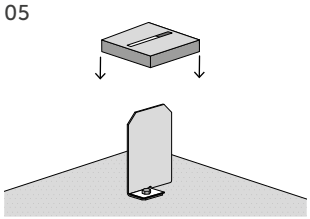

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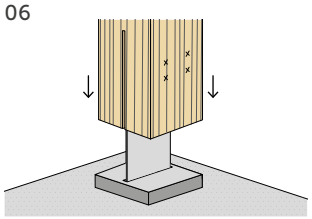

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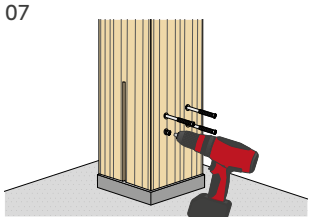

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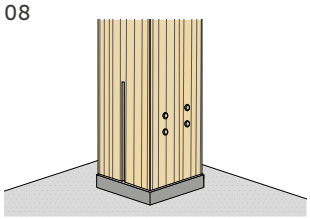
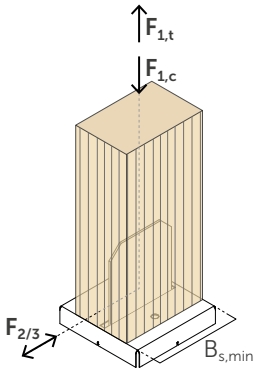


STRUCTURAL VALUES



post base	timber fastening type SBD Ø7,5	column	COMPRESSION $R_{1,c\ k\ timber}$		TENSION $R_{1,t\ k\ steel}$		SHEAR $R_{2/3,t\ k\ timber}$	
	pcs - Ø x L [mm]	$B_{s,min}$ [mm]	[kN]	γ_{timber}	[kN]	γ_{steel}	[kN]	γ_{timber}
EASYTIE089	2 - Ø7,5 x 75	90 x 90	81,0	γ_{MC}[2]	16,0	γ_{M0}	5,8	γ_{MC}[2]
EASYTIE120	2 - Ø7,5 x 115	120 x 120	103,0		16,0		5,8	
EASYTIE136	4 - Ø7,5 x 115	140 x 140	121,0		20,8		12,3	
EASYTIE160	4 - Ø7,5 x 155	160 x 160	157,0		20,8		12,3	
EASYTIE184	4 - Ø7,5 x 175	200 x 200	219,0		20,8		12,3	

NOTES

(1) SBD self-drilling dowels Ø7,5:
L = 75 mm: M_{yk} = 42000 Nmm
L ≥ 95 mm, M_{yk} = 75000 Nmm

(2) γ_{MC} partial coefficient for connections.

GENERAL PRINCIPLES

- The strength values indicated in the table are valid in compliance with the fasteners installation according to the configurations indicated.
- Characteristic values according to EN 1995-1-1:2014.
- Design values can be obtained from characteristic values as follows:

$$R_d = min \begin{cases} \frac{R_{i,k\ timber} \cdot k_{mod}}{\gamma_M} \\ \frac{R_{i,k\ steel}}{\gamma_{Mi}} \end{cases}$$

- The coefficients k_{mod}, γ_M and γ_{Mi} should be taken according to the current regulations used for the calculation.
- The moment and shear strength values are calculated individually not taking into account the stabilizing contributions, if any, deriving from the compressive stress that influence the overall strength of the connection. In case of combined loading the verification must be carried out separately.
- A timber density of ρ_k = 350 kg/m^3 was considered for the calculation process.
- Dimensioning and verification of timber and concrete elements must be carried out separately.