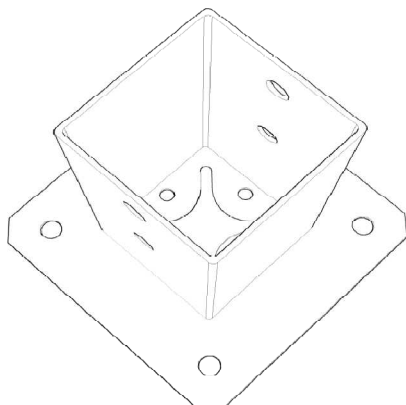


Data sheet post base Type F10

Name of the manufacturer: Rotho Blaas srl - Via dell'Adige 2/1 - 39040 Cortaccia (BZ) Italy
Number of the European Technical Approval: ETA 10/0422
Number of the ETA Guideline: ETAG 015
Name of product: F10_1, F10_2

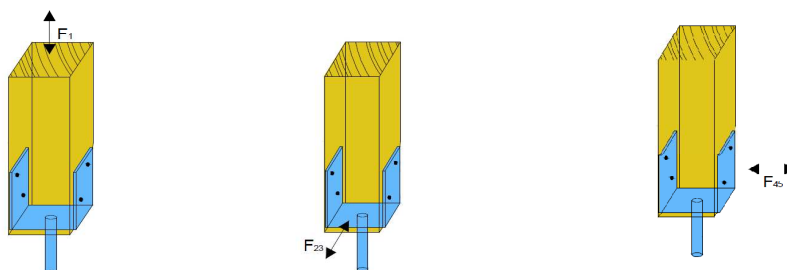


Product details and definitions

Post base		Metal Fasteners	Distances [mm]		
Type	Dimension	Type	max. a	e _{F2/F3}	e _{F4/F5}
F10_1	71x71	2x HBS+ 8x60mm	-	77	77
F10_2	91x91	4x HBS+ 8x40mm	-	77	77

Definition of forces, their direction and eccentricity

Force F_1 : tensile or compression load
 Force F_2 / F_3 : horizontal load parallel to the side plates of post base
 Force F_4 / F_5 : horizontal load perpendicular to the side plates of post base



Acting forces

F_1 axial force (tension or compression) acting along the central axis of the joint
 F_2 and F_3 horizontal force parallel to the side plates of the post base acting with the lever arm $e_{F2/F3}$ above the foundation
 F_4 and F_5 horizontal force perpendicular to the side plates of the post base acting with the lever arm $e_{F4/F5}$ above the foundation

Combined forces

$\sum F_{i,d} / R_{i,d} \leq 1$ The forces F_2 and F_3 or F_4 and F_5 are forces with opposite direction. F_4 or F_5 , respectively, is able to act simultaneously with F_1 .

Safety principles and partial factors

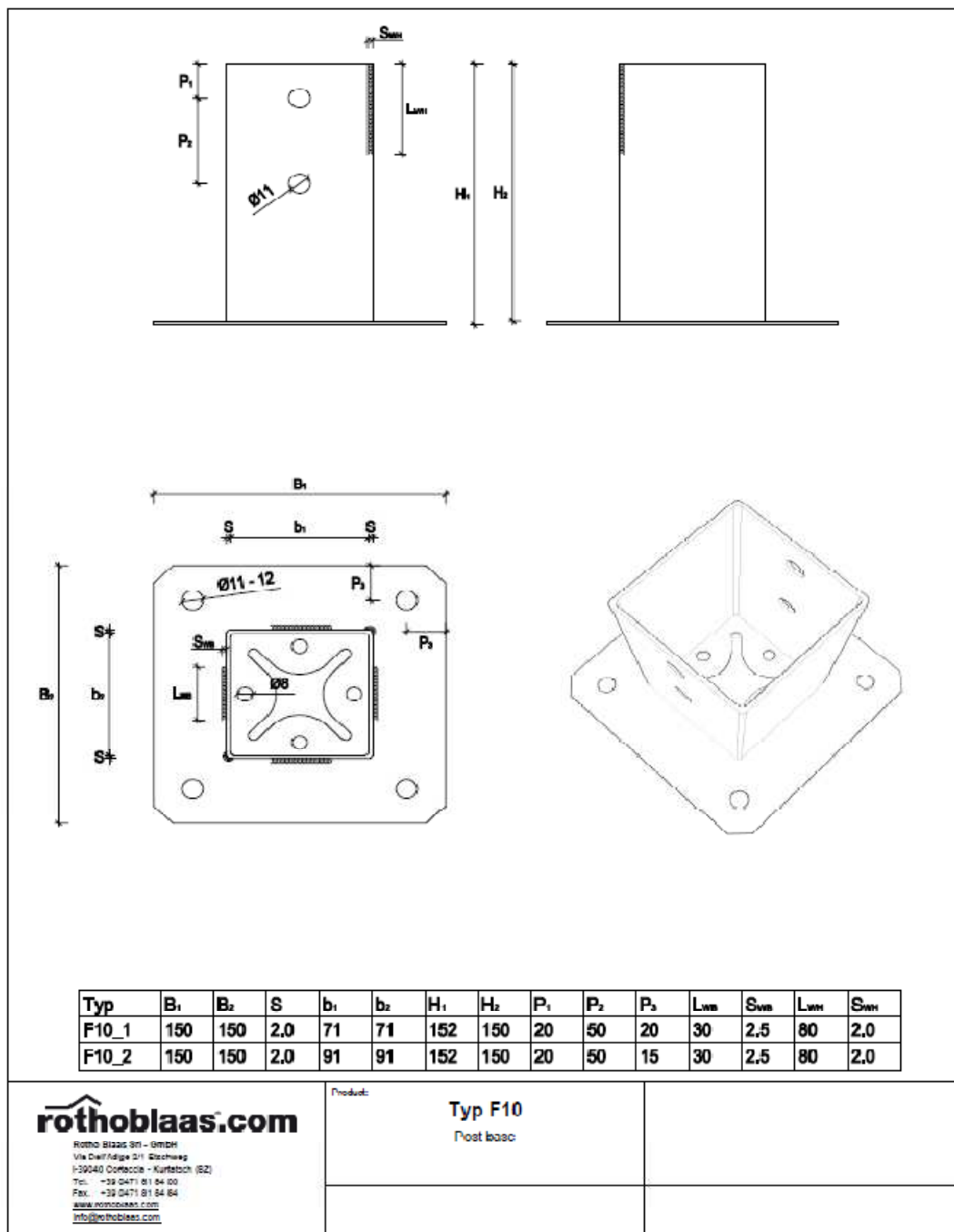
The design value of the load-carrying capacity is the smaller value of all load-carrying capacities:

$$F_{Rd} = \min \left\{ \frac{k_{mod} \cdot F_{Rk,H}}{\gamma_{M,H}}; \frac{F_{Rk,S}}{\gamma_{M,S}}; \frac{F_{Rk,B}}{\gamma_{Rl,B}} \right\}$$

$F_{Rk,H}$ timber failure or failure of the metal fasteners (EN 1995-1-1)
 $F_{Rk,S}$ steel failure (EN 1993-1-1)
 $F_{Rk,B}$ foundation failure (EN 1997-1)

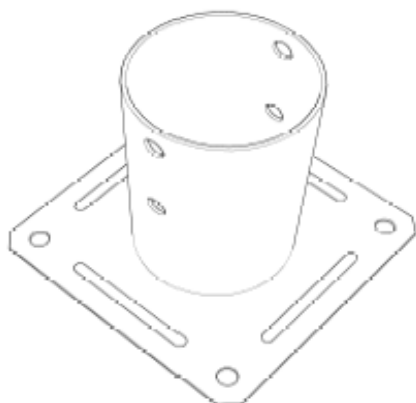
Characteristic load-carrying capacities

Type	F ₁ (Compression) [kN]			F ₁ (Tension) [kN]			F ₂₃ [kN]			F ₄₅ [kN]		
	Timber	Steel		Timber	Steel		Timber	Steel		Timber	Steel	
F10_1	50,8	-	-	6,2	4,3	-	5,0	4,5	-	7,6	9,5	-
F10_2	84,8	-	-	8,2	3,8	-	9,9	4,7	-	13,3	10,2	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	γ _m			γ _m	γ _{m,0}		γ _m	γ _{m,0}		γ _m	γ _{m,0}	



Data sheet post base Type F20

Name of the manufacturer: Rotho Blaas srl - Via dell'Adige 2/1 - 39040 Cortaccia (BZ) Italy
Number of the European Technical Approval: ETA 10/0422
Number of the ETA Guideline: ETAG 015
Name of product: F20_1, F20_2, F20_3, F20_4

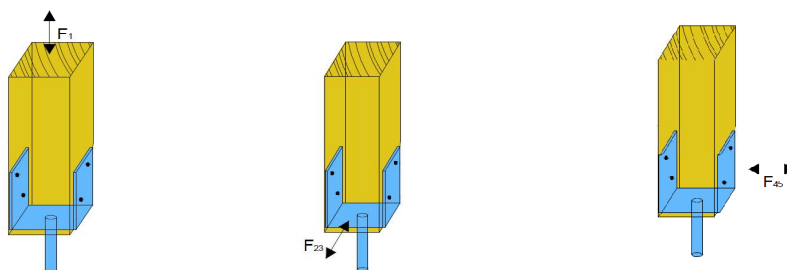


Product details and definitions

Post base		Metal Fasteners	Distances [mm]		
Type	Dimension	Type	max. a	e _{F2/F3}	e _{F4/F5}
F20_1	81	4x HBS+ 8x40mm	-	77	77
F20_2	101	4x HBS+ 8x40mm	-	77	77
F20_3	121	4x HBS+ 8x60mm	-	77	77
F20_4	141	4x HBS+ 8x60mm	-	77	77

Definition of forces, their direction and eccentricity

Force F_1 : tensile or compression load
 Force F_2 / F_3 : horizontal load parallel to the side plates of post base
 Force F_4 / F_5 : horizontal load perpendicular to the side plates of post base



Acting forces

F_1 axial force (tension or compression) acting along the central axis of the joint
 F_2 and F_3 horizontal force parallel to the side plates of the post base acting with the lever arm $e_{F2/F3}$ above the foundation
 F_4 and F_5 horizontal force perpendicular to the side plates of the post base acting with the lever arm $e_{F4/F5}$ above the foundation

Combined forces

$\sum F_{i,d} / R_{i,d} \leq 1$ The forces F_2 and F_3 or F_4 and F_5 are forces with opposite direction. F_4 or F_5 , respectively, is able to act simultaneously with F_1 .

Safety principles and partial factors

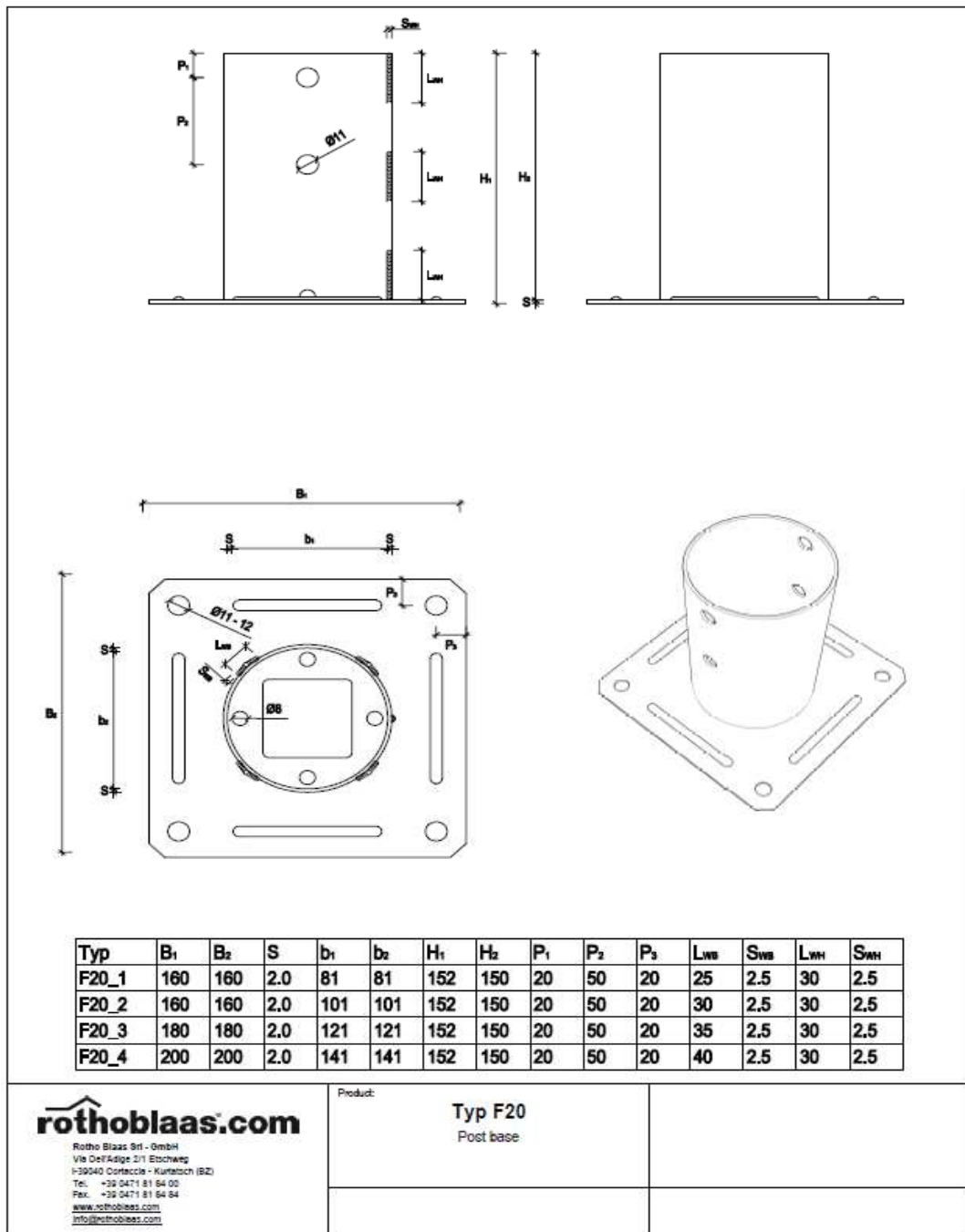
The design value of the load-carrying capacity is the smaller value of all load-carrying capacities:

$$F_{Rd} = \min \left\{ \frac{k_{mod} \cdot F_{Rk,H}}{\gamma_{M,H}}; \frac{F_{Rk,S}}{\gamma_{M,S}}; \frac{F_{Rk,B}}{\gamma_{Rl,B}} \right\}$$

$F_{Rk,H}$ timber failure or failure of the metal fasteners (EN 1995-1-1)
 $F_{Rk,S}$ steel failure (EN 1993-1-1)
 $F_{Rk,B}$ foundation failure (EN 1997-1)

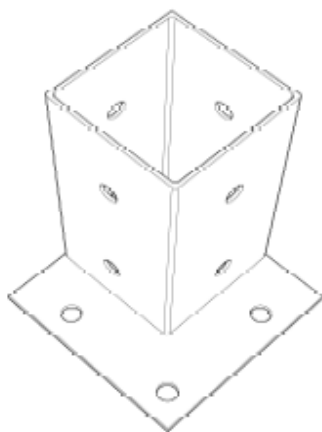
Characteristic load-carrying capacities

Type	F ₁ (Compression) [kN]			F ₁ (Tension) [kN]			F ₂₃ [kN]			F ₄₅ [kN]		
	Timber	Steel		Timber	Steel		Timber	Steel		Timber	Steel	
F20_1	17,2	-	-	7,4	4,1	-	6,5	2,4	-	8,1	3,1	-
F20_2	62,5	-	-	7,4	8,8	-	3,2	6,6	-	12,8	8,4	-
F20_3	99,1	-	-	11	10	-	9,9	8,9	-	18,4	11,4	-
F20_4	142,3	-	-	11	11,1	-	9,9	11,5	-	25,3	14,7	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	γ _m			γ _m	γ _{m,0}		γ _m	γ _{m,0}		γ _m	γ _{m,0}	



Data sheet post base Type F30

Name of the manufacturer: Rotho Blaas srl - Via dell'Adige 2/1 - 39040 Cortaccia (BZ) Italy
Number of the European Technical Approval: ETA 10/0422
Number of the ETA Guideline: ETAG 015
Name of product: F30_1, F30_2

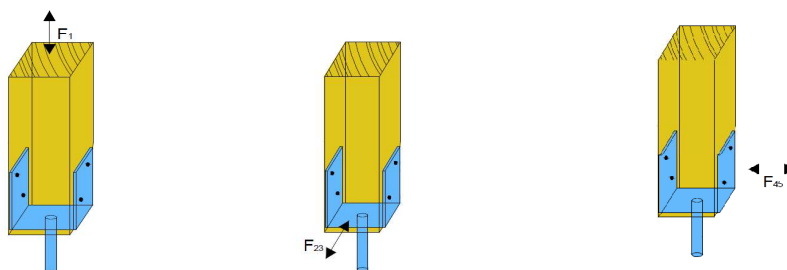


Product details and definitions

Post base		Metal Fasteners	Distances [mm]		
Type	Dimension	Type	max. a	e _{F2/F3}	e _{F4/F5}
F30_1	71x71	4x HBS+ 8x60mm	-	122	122
F30_2	91x91	4x HBS+ 8x40mm	-	122	122

Definition of forces, their direction and eccentricity

Force F_1 : tensile or compression load
 Force F_2 / F_3 : horizontal load parallel to the side plates of post base
 Force F_4 / F_5 : horizontal load perpendicular to the side plates of post base



Acting forces

F_1 axial force (tension or compression) acting along the central axis of the joint
 F_2 and F_3 horizontal force parallel to the side plates of the post base acting with the lever arm $e_{F2/F3}$ above the foundation
 F_4 and F_5 horizontal force perpendicular to the side plates of the post base acting with the lever arm $e_{F4/F5}$ above the foundation

Combined forces

$\sum F_{i,d} / R_{i,d} \leq 1$ The forces F_2 and F_3 or F_4 and F_5 are forces with opposite direction. F_4 or F_5 , respectively, is able to act simultaneously with F_1 .

Safety principles and partial factors

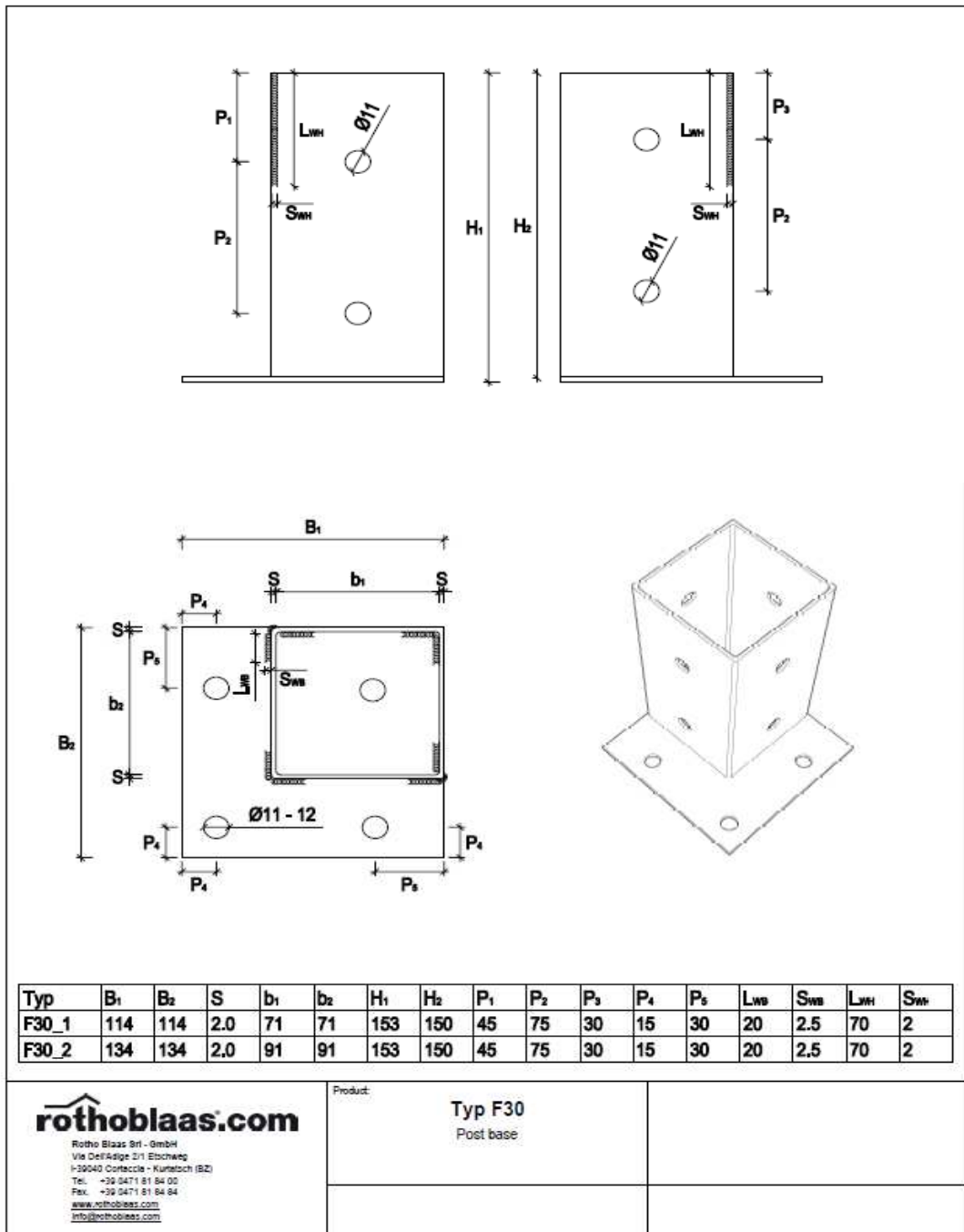
The design value of the load-carrying capacity is the smaller value of all load-carrying capacities:

$$F_{Rd} = \min \left\{ \frac{k_{mod} \cdot F_{Rk,H}}{\gamma_{M,H}}; \frac{F_{Rk,S}}{\gamma_{M,S}}; \frac{F_{Rk,B}}{\gamma_{Rl,B}} \right\}$$

$F_{Rk,H}$ timber failure or failure of the metal fasteners (EN 1995-1-1)
 $F_{Rk,S}$ steel failure (EN 1993-1-1)
 $F_{Rk,B}$ foundation failure (EN 1997-1)

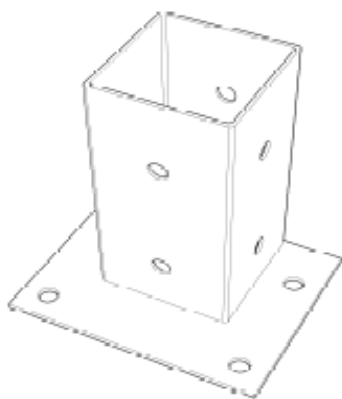
Characteristic load-carrying capacities

Type	F ₁ (Compression) [kN]			F ₁ (Tension) [kN]			F ₂₃ [kN]			F ₄₅ [kN]		
	Timber	Steel		Timber	Steel		Timber	Steel		Timber	Steel	
F30_1	50,8	-	-	7,1	6,5	-	7,6	2,9	-	7,6	2,9	-
F30_2	84,8	-	-	9,5	13	-	7,6	2,9	-	7,6	2,9	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	γ _m			γ _m	γ _{m,0}		γ _m	γ _{m,0}		γ _m	γ _{m,0}	



Data sheet post base Type F40

Name of the manufacturer: Rotho Blaas srl - Via dell'Adige 2/1 - 39040 Cortaccia (BZ) Italy
Number of the European Technical Approval: ETA 10/0422
Number of the ETA Guideline: ETAG 015
Name of product: F40_1, F40_2

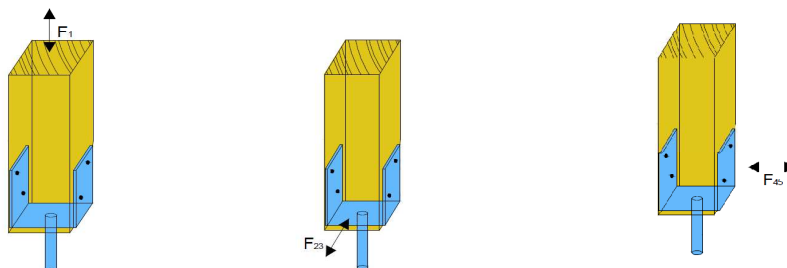


Product details and definitions

Post base		Metal Fasteners	Distances [mm]		
Type	Dimension	Type	max. a	e _{F2/F3}	e _{F4/F5}
F40_1	71x71	4x HBS+ 8x60mm	-	122	122
F40_2	91x91	4x HBS+ 8x40mm	-	122	122

Definition of forces, their direction and eccentricity

Force F_1 : tensile or compression load
 Force F_2 / F_3 : horizontal load parallel to the side plates of post base
 Force F_4 / F_5 : horizontal load perpendicular to the side plates of post base



Acting forces

F_1 axial force (tension or compression) acting along the central axis of the joint
 F_2 and F_3 horizontal force parallel to the side plates of the post base acting with the lever arm $e_{F2/F3}$ above the foundation
 F_4 and F_5 horizontal force perpendicular to the side plates of the post base acting with the lever arm $e_{F4/F5}$ above the foundation

Combined forces

$\sum F_{i,d} / R_{i,d} \leq 1$ The forces F_2 and F_3 or F_4 and F_5 are forces with opposite direction. F_4 or F_5 , respectively, is able to act simultaneously with F_1 .

Safety principles and partial factors

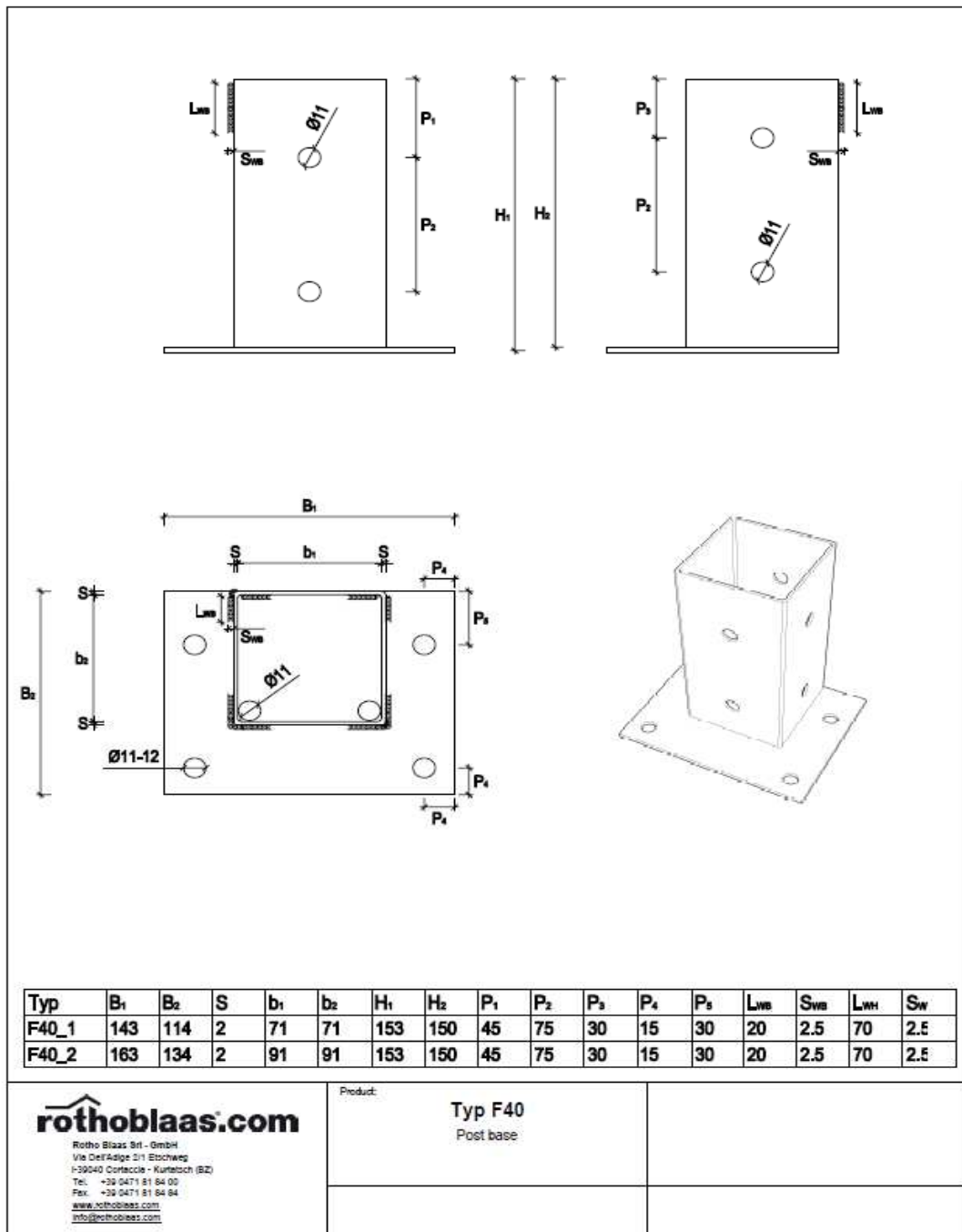
The design value of the load-carrying capacity is the smaller value of all load-carrying capacities:

$$F_{Rd} = \min \left\{ \frac{k_{mod} \cdot F_{Rk,H}}{\gamma_{M,H}}; \frac{F_{Rk,S}}{\gamma_{M,S}}; \frac{F_{Rk,B}}{\gamma_{Rl,B}} \right\}$$

$F_{Rk,H}$ timber failure or failure of the metal fasteners (EN 1995-1-1)
 $F_{Rk,S}$ steel failure (EN 1993-1-1)
 $F_{Rk,B}$ foundation failure (EN 1997-1)

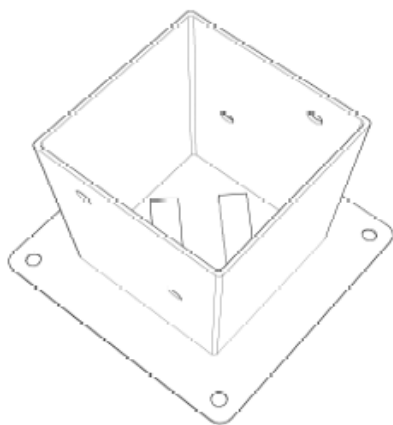
Characteristic load-carrying capacities

Type	F ₁ (Compression) [kN]			F ₁ (Tension) [kN]			F ₂₃ [kN]			F ₄₅ [kN]		
	Timber	Steel		Timber	Steel		Timber	Steel		Timber	Steel	
F40_1	50,8	-	-	7,1	7,7	-	7,6	5,4	-	7,6	5,4	-
F40_2	84,8	-	-	9,5	21,8	-	13,3	7,9	-	13,3	7,9	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	γ _m			γ _m	γ _{m,0}		γ _m	γ _{m,0}		γ _m	γ _{m,0}	



Data sheet post base Type F50

Name of the manufacturer: Rotho Blaas srl - Via dell'Adige 2/1 - 39040 Cortaccia (BZ) Italy
Number of the European Technical Approval: ETA 10/0422
Number of the ETA Guideline: ETAG 015
Name of product: F50_1, F50_2, F50_3, F50_4, F50_5, F50_6

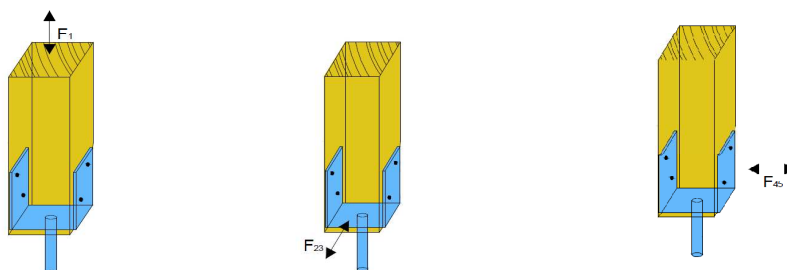


Product details and definitions

Post base		Metal Fasteners	Distances [mm]		
Type	Dimension		max. a	e _{F2/F3}	e _{F4/F5}
F50_1	101x101	4x HBS+ 8x60mm	-	83	83
F50_2	121x121	4x HBS+ 8x60mm	-	83	83
F50_3	141x141	4x HBS+ 8x60mm	-	83	83
F50_4	161x161	4x HBS+ 8x60mm	-	108	108
F50_5	181x181	4x HBS+ 8x60mm	-	108	108
F50_6	201x201	4x HBS+ 8x60mm	-	108	108

Definition of forces, their direction and eccentricity

Force F_1 : tensile or compression load
 Force F_2 / F_3 : horizontal load parallel to the side plates of post base
 Force F_4 / F_5 : horizontal load perpendicular to the side plates of post base



Acting forces

F_1 axial force (tension or compression) acting along the central axis of the joint
 F_2 and F_3 horizontal force parallel to the side plates of the post base acting with the lever arm $e_{F2/F3}$ above the foundation
 F_4 and F_5 horizontal force perpendicular to the side plates of the post base acting with the lever arm $e_{F4/F5}$ above the foundation

Combined forces

$\sum F_{i,d} / R_{i,d} \leq 1$ The forces F_2 and F_3 or F_4 and F_5 are forces with opposite direction. F_4 or F_5 , respectively, is able to act simultaneously with F_1 .

Safety principles and partial factors

The design value of the load-carrying capacity is the smaller value of all load-carrying capacities:

$$F_{Rd} = \min \left\{ \frac{k_{mod} \cdot F_{Rk,H}}{\gamma_{M,H}}; \frac{F_{Rk,S}}{\gamma_{M,S}}; \frac{F_{Rk,B}}{\gamma_{Rl,B}} \right\}$$

$F_{Rk,H}$ timber failure or failure of the metal fasteners (EN 1995-1-1)
 $F_{Rk,S}$ steel failure (EN 1993-1-1)
 $F_{Rk,B}$ foundation failure (EN 1997-1)

Characteristic load-carrying capacities

Type	F ₁ (Compression) [kN]			F ₁ (Tension) [kN]			F ₂₃ [kN]			F ₄₅ [kN]		
	Timber	Steel		Timber	Steel		Timber	Steel		Timber	Steel	
F50_1	29,4	29,1	-	7,1	-	-	17,2	9	-	17,2	9	-
F50_2	33,6	33,3	-	7,1	11,5	-	17,2	8,7	-	17,2	8,7	-
F50_3	42	41,6	-	7,1	-	-	17,2	11,9	-	17,2	11,9	-
F50_4	42	41,6	-	7,1	13,8	-	20,4	10,6	-	20,4	10,6	-
F50_5	42	41,6	-	7,1	16,1	-	20,4	13,9	-	20,4	13,9	-
F50_6	46,2	45,7	-	7,1	17,3	-	21	14,4	-	21	14,4	-
	γ_m	$\gamma_{m,0}$		γ_m	$\gamma_{m,0}$		γ_m	$\gamma_{m,0}$		γ_m	$\gamma_{m,0}$	

