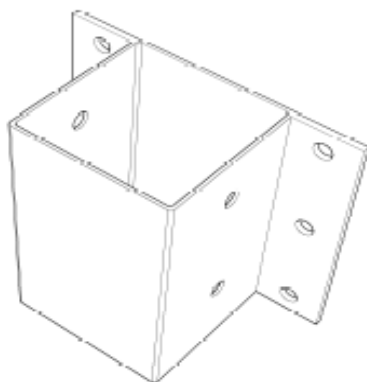


Data sheet post base Type M10

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:	M10_1, M10_2

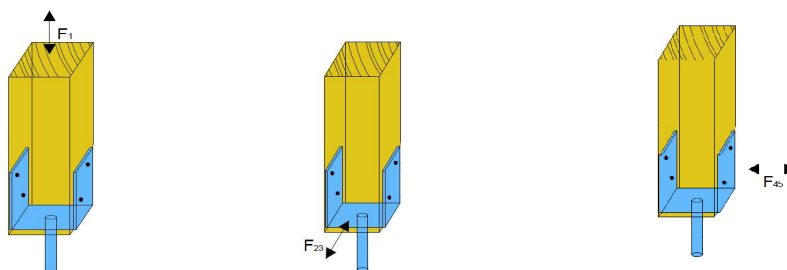


Product details and definitions

Post base		Metal Fasteners	Distances [mm]		
Type	Dimension	Type	max. a	e _{F2/F3}	e _{F4/F5}
M10_1	71x71	4x HBS+ 8x40mm	-	45	14
M10_2	91x91	2x HBS+ 8x60mm	-	45	14

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

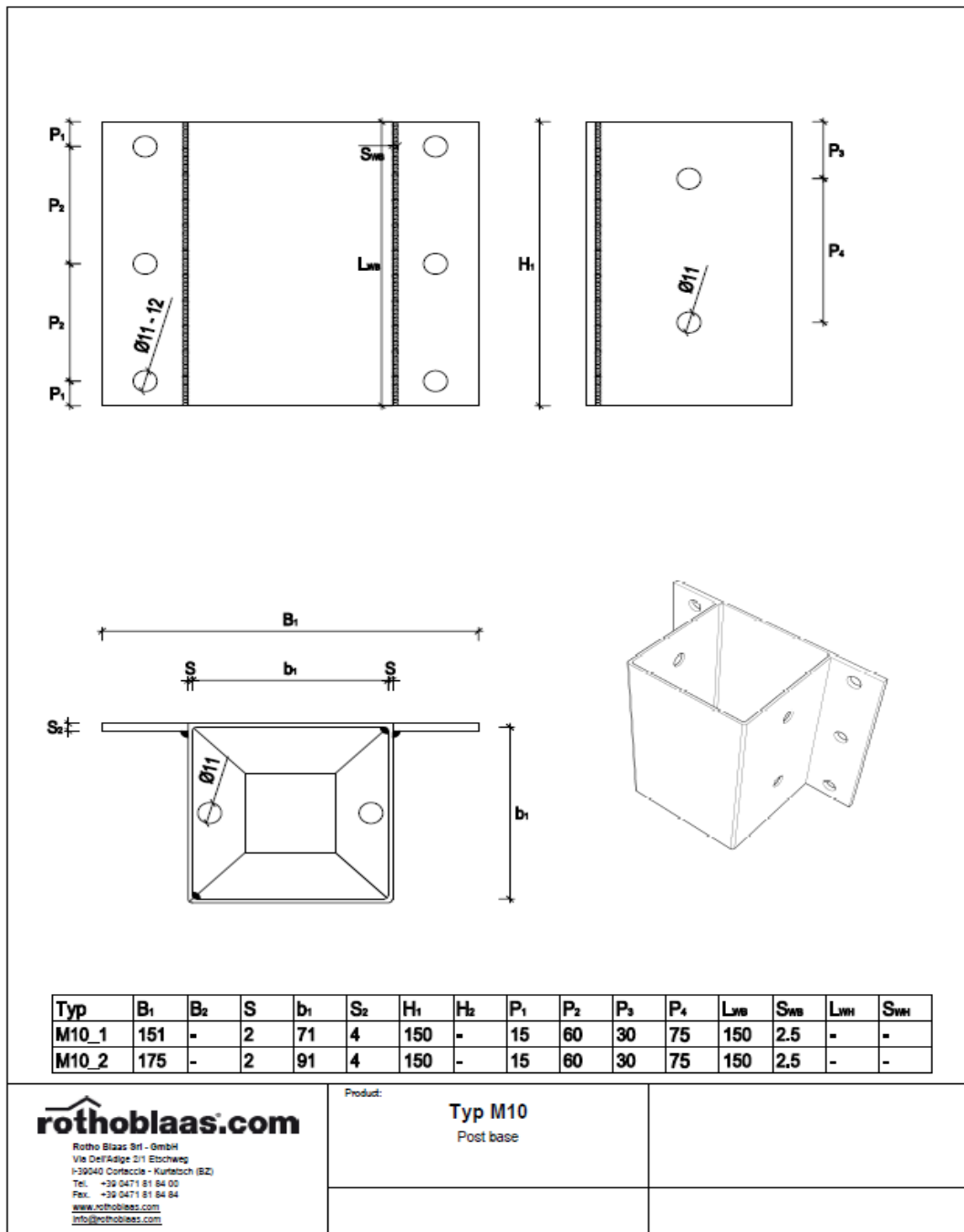
The design value of the load-carrying capacity is the smaller value of all load-carrying capacities:

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

- $F_{Rk,H}$ 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)

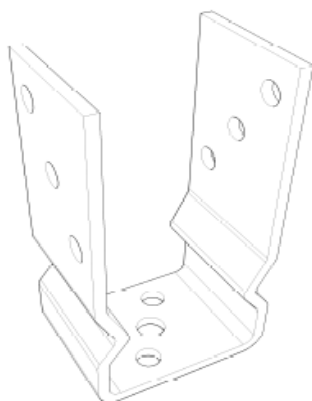
Characteristic load-carrying capacities

Type	F ₁ (Compression) [kN]			F ₁ (Tension) [kN]			F ₂₃ [kN]			F ₄₅ [kN]		
	Timber	Steel		Timber	Steel		Timber	Steel		Timber	Steel	
M10_1	6,1	14	-	3,5	10	-	7,6	5,9	-	7,6	-	5,8
M10_2	12,2	14,4	-	7,1	11,5	-	13	5,9	-	13	-	5,4
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	γ _m	γ _{m,1}		γ _m	γ _{m,1}		γ _m	γ _{m,0}		γ _m	γ _{m,0}	γ _{m,2}



Data sheet post base Type M20

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: M20_1, M20_2, M20_3, M20_4

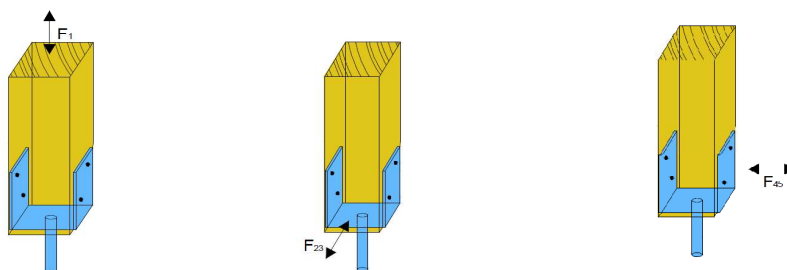


Product details and definitions

Post base		Metal Fasteners	Distances [mm]		
Type	Dimension		max. a	e _{F2/F3}	e _{F4/F5}
M20_1	71x60	5x HBS+ 8x60mm	-	139	72
M20_2	91x60	5x HBS+ 8x60mm	-	139	72
M20_3	101x146	5x HBS+ 8x60mm	-	139	72
M20_4	121x146	6x HBS+ 8x60mm	-	139	72

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

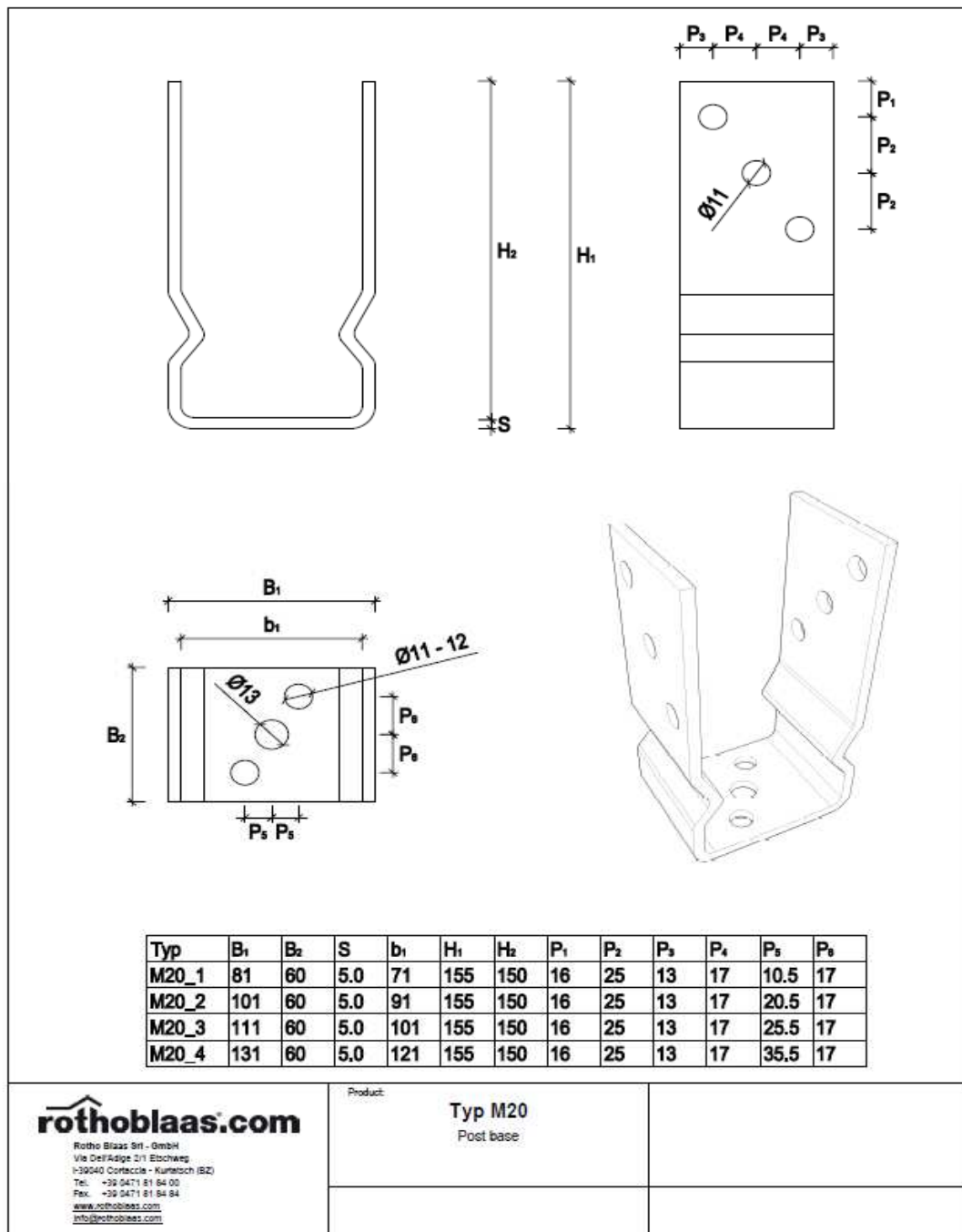
The design value of the load-carrying capacity is the smaller value of all load-carrying capacities:

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

$F_{Rk,H}$ 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)

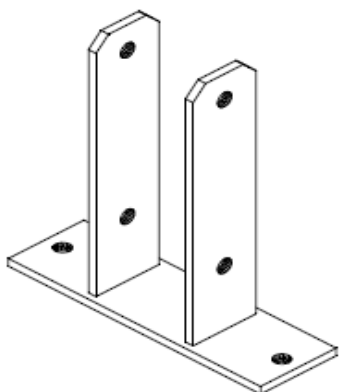
Characteristic load-carrying capacities

Type	F ₁ (Compression) [kN]			F ₁ (Tension) [kN]			F ₂₃ [kN]			F ₄₅ [kN]		
	Timber	Steel		Timber	Steel		Timber	Steel		Timber	Steel	
M20_1	7,4	-	8,1	7,4	7,8	8,1	5,5	1,5	-	8,2	3	-
M20_2	7,4	-	8,1	7,4	5,4	8,1	5,5	1,5	-	8,2	3	-
M20_3	7,4	-	8,1	7,4	4,7	8,1	5,5	1,5	-	8,2	3	-
M20_4	7,4	-	8,1	7,4	3,8	8,1	5,5	1,5	-	8,2	3	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	γ _m		γ _{m,2}	γ _m	γ _{m,0}	γ _{m,2}	γ _m	γ _{m,0}		γ _m	γ _{m,0}	



Data sheet post base Type M30

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: M30_1, M30_2, M30_3, M30_4, M30_5

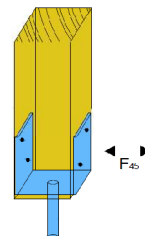
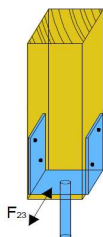
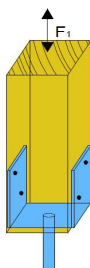


Product details and definitions

Post base		Metal Fasteners	Distances [mm]		
Type	Dimension	Type	max. a	e _{F2/F3}	e _{F4/F5}
M30_1	71x50	2x HBS+ 8x60mm	-	185	30
M30_2	81x50	4x HBS+ 8x40mm	-	185	30
M30_3	91x50	4x HBS+ 8x40mm	-	185	30
M30_4	101x50	4x HBS+ 8x40mm	-	185	30
M30_5	121x50	4x HBS+ 8x60mm	-	185	30

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

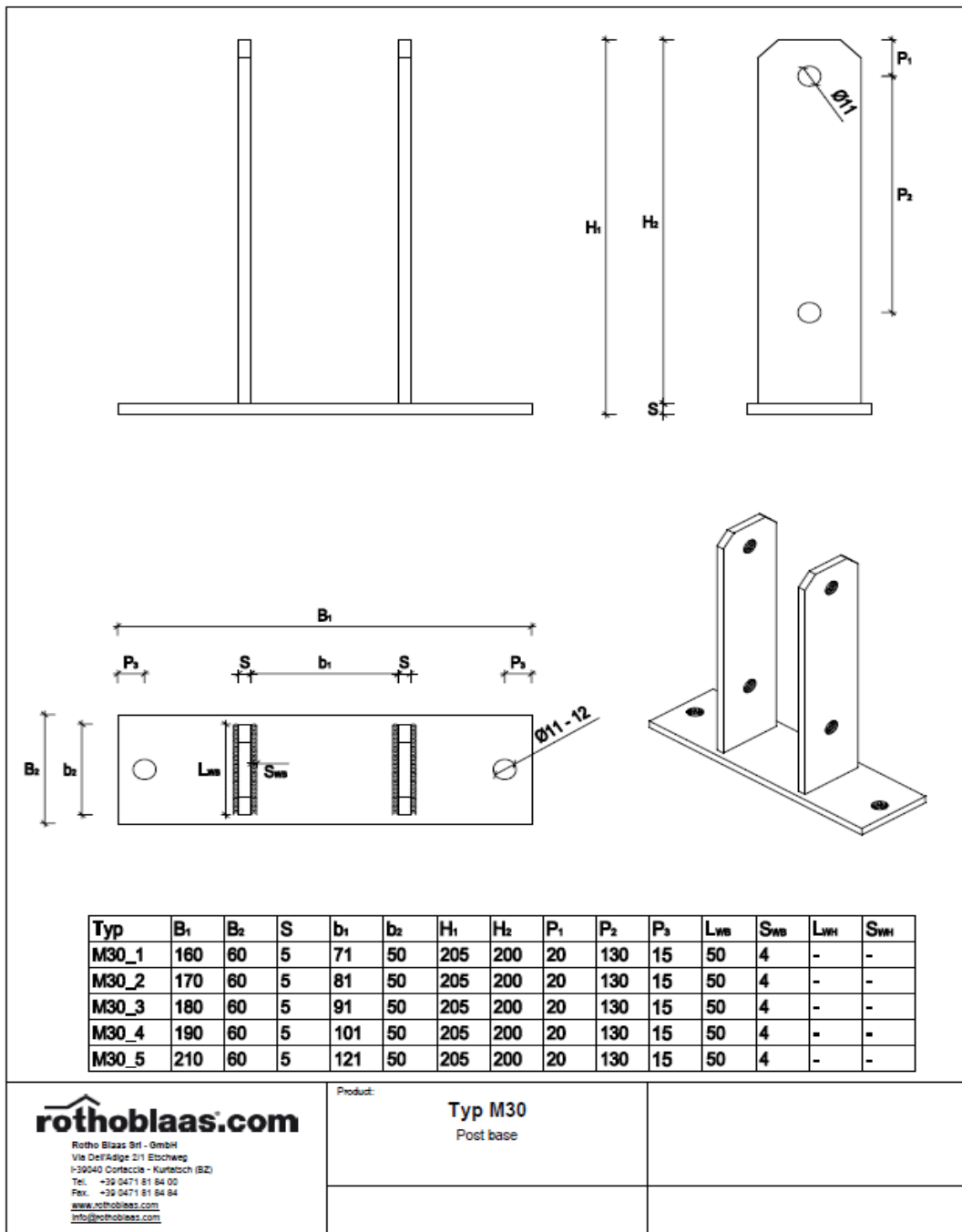
The design value of the load-carrying capacity is the smaller value of all load-carrying capacities:

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

$F_{Rk,H}$ 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)

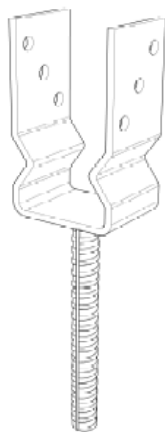
Characteristic load-carrying capacities

Type	F ₁ (Compression) [kN]			F ₁ (Tension) [kN]			F ₂₃ [kN]			F ₄₅ [kN]		
	Timber	Steel		Timber	Steel		Timber	Steel		Timber	Steel	
M30_1	89,2	-	-	3,7	12,9	-	2,7	1,2	-	8,5	5,9	-
M30_2	101,8	-	-	5,1	21,8	-	3,7	1,2	-	9,7	5,6	-
M30_3	114,4	-	-	5,1	21,8	-	3,7	1,2	-	10,9	5,6	-
M30_4	127	-	-	5,1	21,8	-	3,7	1,2	-	12,1	5,6	-
M30_5	152,2	-	-	7,4	21,8	-	5,5	1,2	-	14	5,9	-
	-	-	-	-	-	-	-	-	-	-	-	-
	γ_m	$\gamma_{m,1}$		γ_m	$\gamma_{m,0}$		γ_m	$\gamma_{m,0}$		γ_m	$\gamma_{m,0}$	



Data sheet post base Type M50

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: M50_1, M50_2, M50_3, M50_4

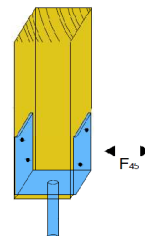
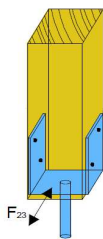
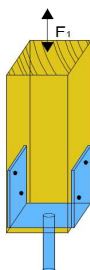


Product details and definitions

Post base		Metal Fasteners	Distances [mm]		
Type	Dimension	Type	max. a	e _{F2/F3}	e _{F4/F5}
M50_1	71x150	5x HBS+ 8x60mm	100	235	77
M50_2	91x150	5x HBS+ 8x60mm	100	235	77
M50_3	101x150	5x HBS+ 8x60mm	100	235	77
M50_4	121x150	6x HBS+ 8x60mm	100	235	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

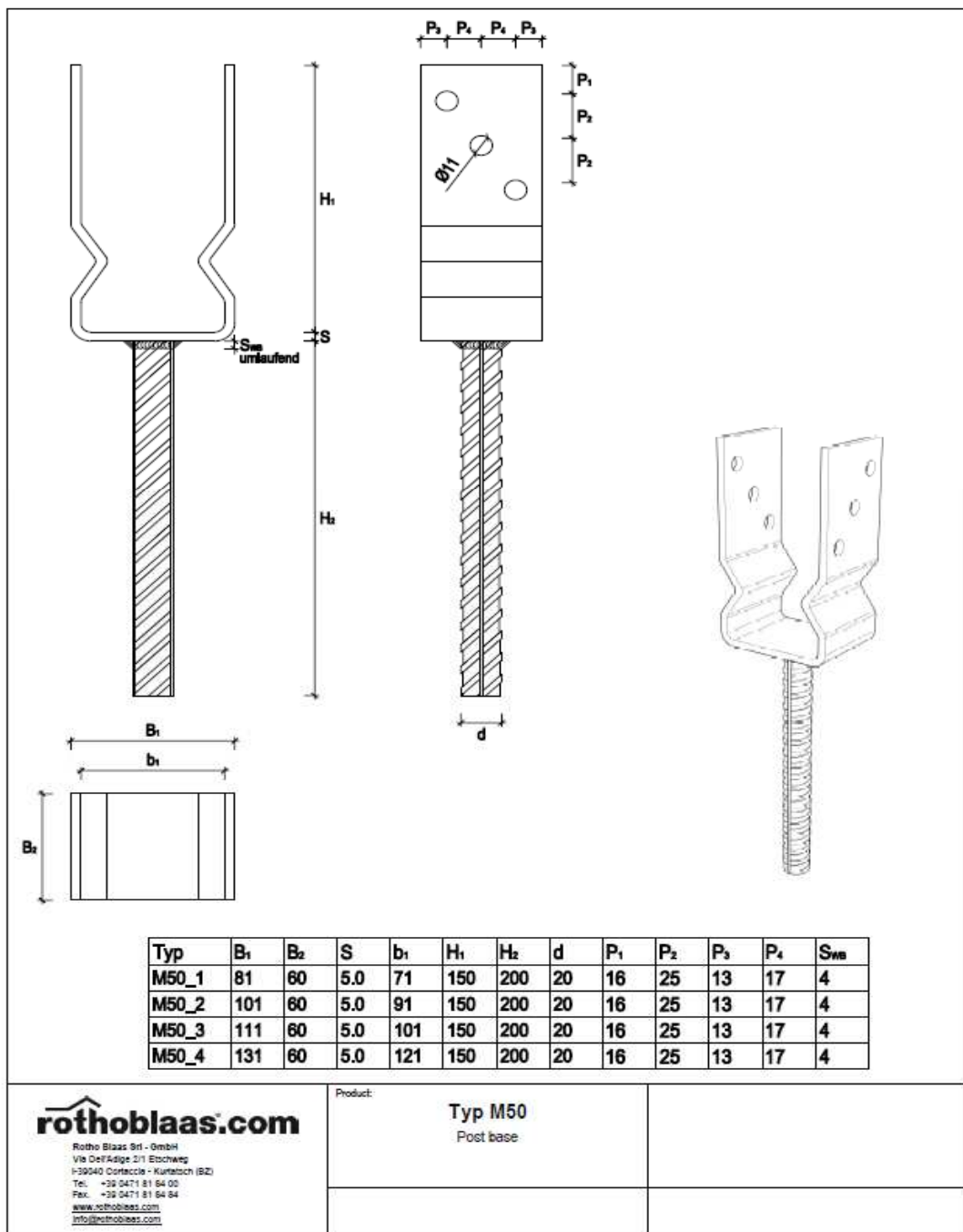
The design value of the load-carrying capacity is the smaller value of all load-carrying capacities:

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

$F_{Rk,H}$ 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	
M50_1	7,4	7,8	8,5	7,8	7,8	-	5,5	1,8	2,7	8,6	3,3	-
M50_2	7,4	5,5	8,5	7,8	5,5	-	5,5	1,8	2,7	8,6	3,3	-
M50_3	7,4	4,8	8,5	7,8	4,8	-	5,5	1,6	2,7	8,6	3,3	-
M50_4	7,4	3,8	8,5	7,8	3,8	-	5,5	1,2	2,7	8,6	3,3	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	γ_m	$\gamma_{m,0}$	$\gamma_{m,2}$	γ_m	$\gamma_{m,0}$		γ_m	$\gamma_{m,0}$	$\gamma_{m,2}$	γ_m	$\gamma_{m,0}$	



Data sheet post base Type M60

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: M60_1

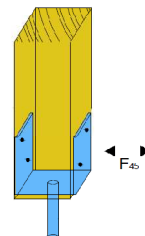
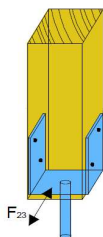
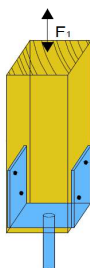


Product details and definitions

Post base		Metal Fasteners	Distances [mm]		
Type	Dimension	Type	max. a	e _{F2/F3}	e _{F4/F5}
M60_1	80x130	4x Bolts Ø10mm	100	218	30

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

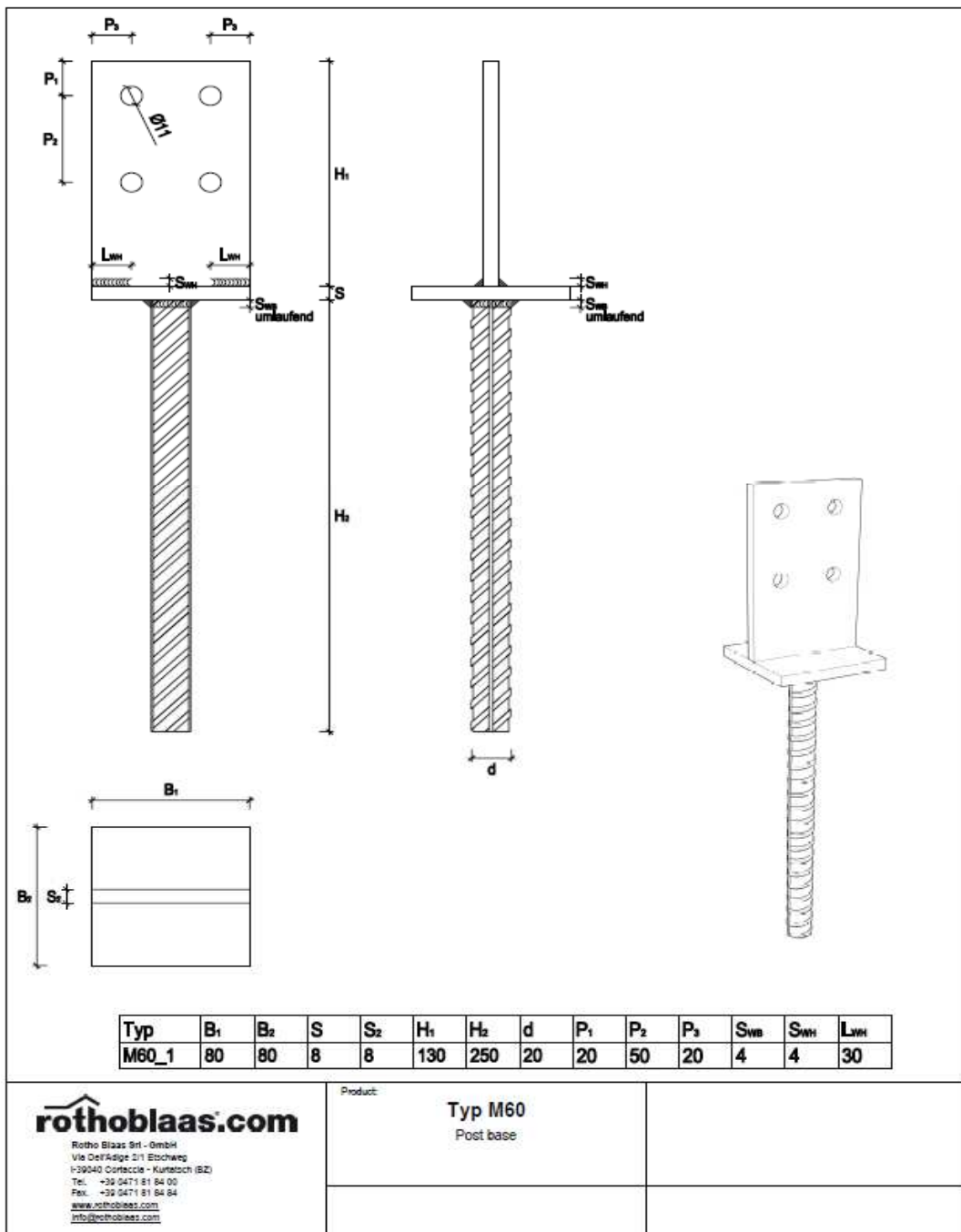
The design value of the load-carrying capacity is the smaller value of all load-carrying capacities:

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

$F_{Rk,H}$ 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	
M60_1	51	55,1	-	26,4	-	65,3	11,8	2,8	3,6	2,2	5,7	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	γ_m	$\gamma_{m,0}$		γ_m		$\gamma_{m,2}$	γ_m	$\gamma_{m,0}$	$\gamma_{m,2}$	γ_m	$\gamma_{m,0}$	



Data sheet post base Type M70 (round section)

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: M70_3, M70_4

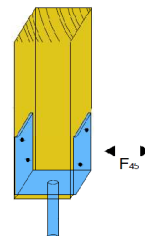
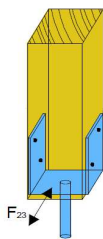
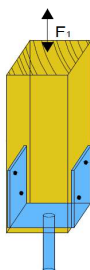


Product details and definitions

Post base		Metal Fasteners	Distances [mm]		
Type	Dimension	Type	max. a	e _{F2/F3}	e _{F4/F5}
M70_3	81	4x HBS+ 8x40mm	-	-	-
M70_4	101	4x HBS+ 8x40mm	-	-	-

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

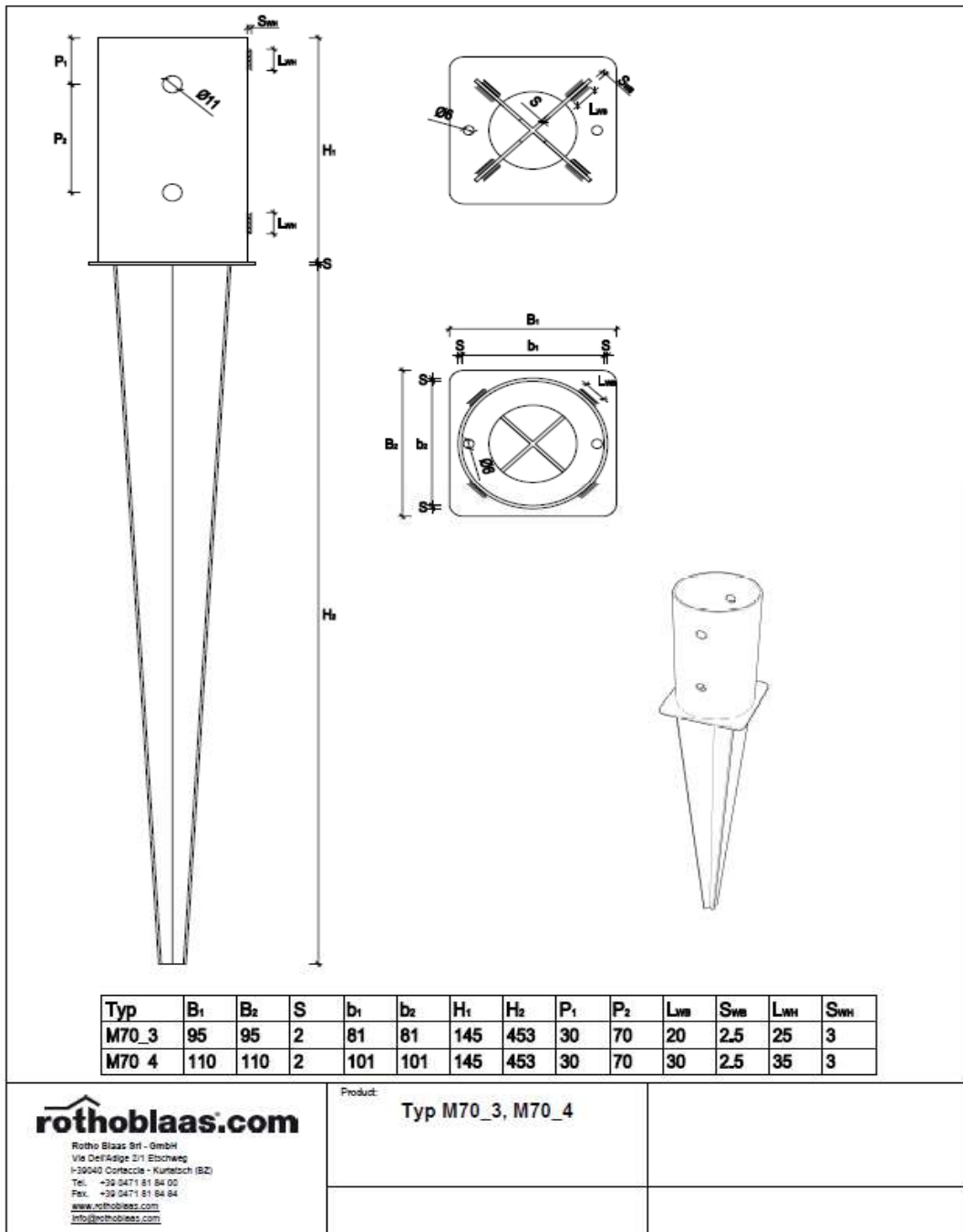
The design value of the load-carrying capacity is the smaller value of all load-carrying capacities:

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

$F_{Rk,H}$ 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)

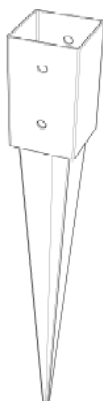
Characteristic load-carrying capacities

Type	F ₁ (Compression) [kN]			F ₁ (Tension) [kN]			F ₂₃ [kN]			F ₄₅ [kN]		
	Timber	Steel	Foun.	Timber	Steel	Foun.	Timber	Steel	Foun.	Timber	Steel	Foun.
M70_3	8,1	-	2,3	-	-	-	8,1	6,5	3,3	8,1	6,5	3,3
M70_4	8,1	-	3,1	-	-	-	10,3	6,9	3,8	10,3	6,9	3,8
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	γ _m	γ _{m,2}	γ _{R,v}				γ _m	γ _{m,0}	γ _{R,c}	γ _m	γ _{m,0}	γ _{R,c}



Data sheet post base Type M70 (square section)

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: M70_1, M70_2

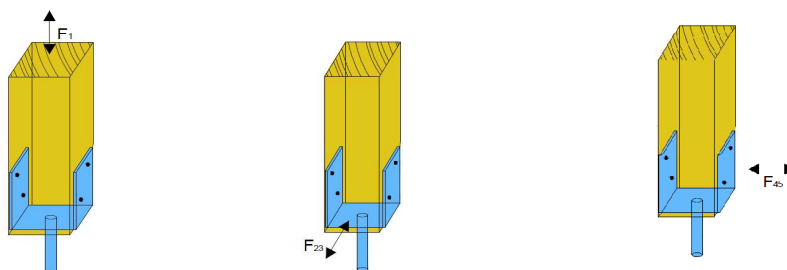


Product details and definitions

Post base		Metal Fasteners	Distances [mm]		
Type	Dimension	Type	max. a	e _{F2/F3}	e _{F4/F5}
M70_1	71x71	2x HBS+ 8x60mm	-	-	-
M70_2	91x91	4x HBS+ 8x40mm	-	-	-

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	Foun.	Timber	Steel	Foun.	Timber	Steel	Foun.	Timber	Steel	Foun.
M70_1	6,1	12,1	1,6	-	-	-	7,6	7,6	5,2	7,6	7,6	5,2
M70_2	8,6	9,4	3	-	-	-	10,1	6,7	9,9	10,1	6,7	9,9
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	γ_m	$\gamma_{m,2}$	$\gamma_{R,v}$				γ_m	$\gamma_{m,0}$	$\gamma_{R,c}$	γ_m	$\gamma_{m,0}$	$\gamma_{R,c}$

