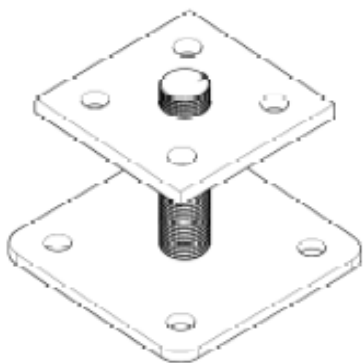


Data sheet post base Type R40

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:	R40_1, R40_2, R40_3, R40_4

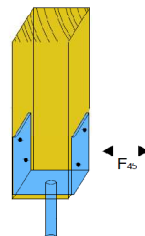
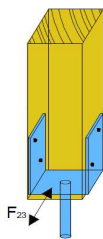
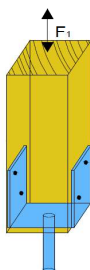


Product details and definitions

Post base		Metal Fasteners	Distances [mm]		
Type	Dimension	Type	max. a	e _{F2/F3}	e _{F4/F5}
R40_1	105	4x HBS+ 8x60mm	105	-	-
R40_2	97	4x HBS+ 8x60mm	97	-	-
R40_3	150	4x HBS+ 8x60mm	150	-	-
R40_4	250	4x HBS+ 8x60mm	250	-	-

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

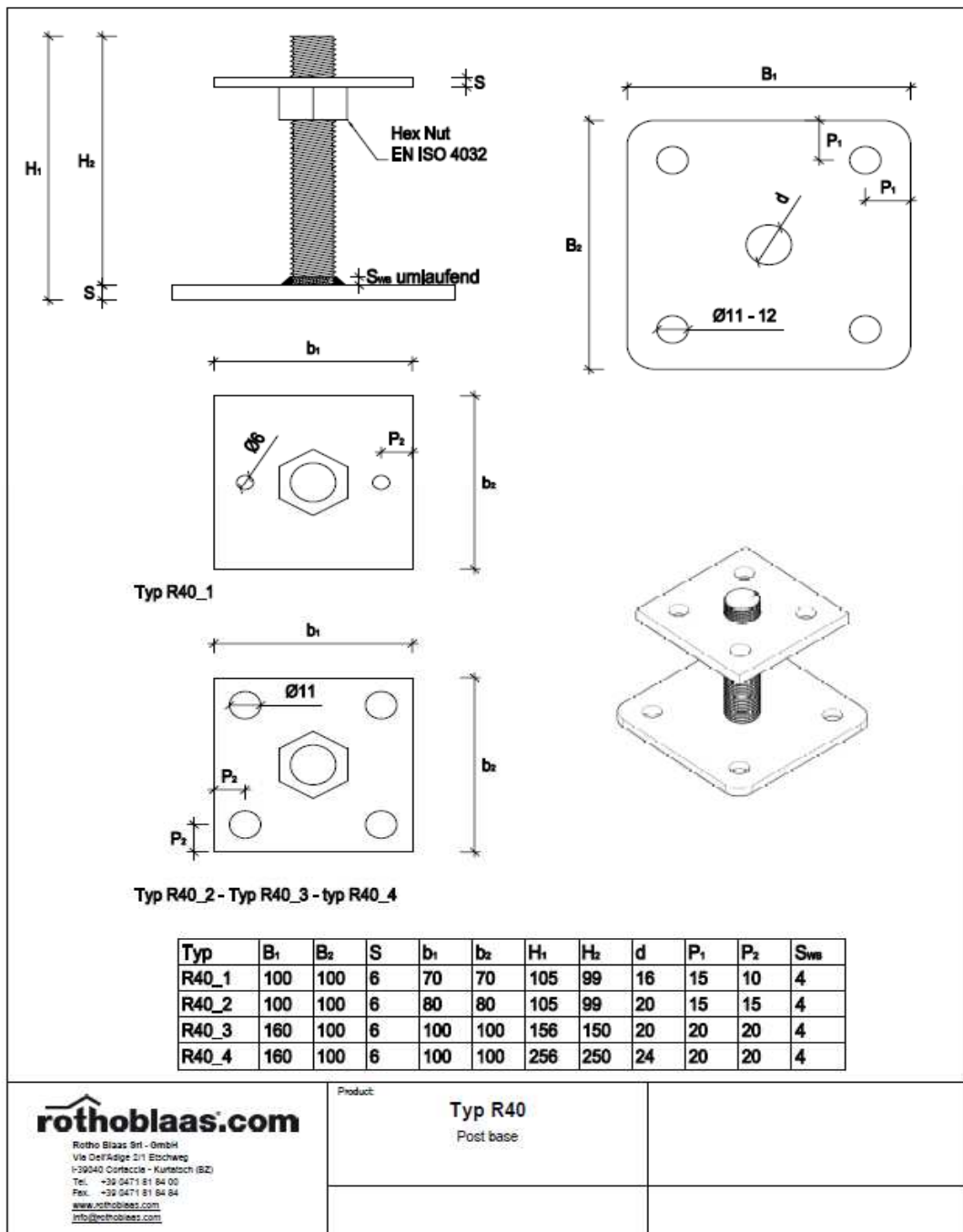
The design value of the load-carrying capacity is the smaller value of all load-carrying capacities:

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

- $F_{Rk,H}$ 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)

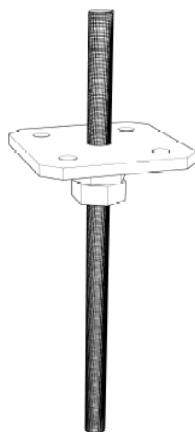
Characteristic load-carrying capacities

Type	F ₁ (Compression) [kN]			F ₁ (Tension) [kN]			F ₂₃ [kN]			F ₄₅ [kN]		
	Timber	Steel		Timber	Steel		Timber	Steel		Timber	Steel	
R40_1	50,7	23,3	39,6	-	-	-	-	-	-	-	-	-
R40_2	64	38,1	100,6	-	-	-	-	-	-	-	-	-
R40_3	99,9	41,9	57,1	-	-	-	-	-	-	-	-	-
R40_4	100,2	50,7	65,3	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	γ_m	$\gamma_{m,0}$	$\gamma_{m,1}$									



Data sheet post base Type R70

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: R70_1, R70_2, R70_3

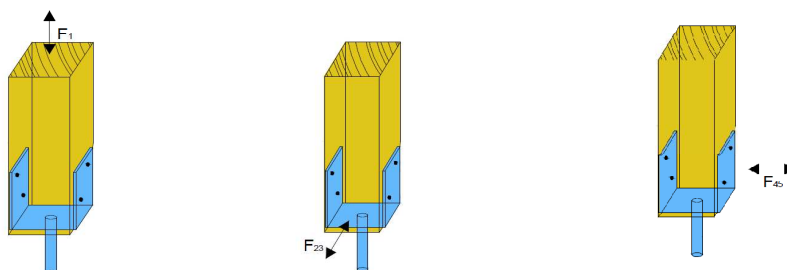


Product details and definitions

Post base		Metal Fasteners	Distances [mm]		
Type	Dimension	Type	max. a	e _{F2/F3}	e _{F4/F5}
R70_1	100x350x20	4x HBS+ 8x60mm	100	-	-
R70_2	140x450x24	4x HBS+ 8x60mm	100	-	-
R70_3	100x350x16	4x HBS+ 8x60mm	100	-	-

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

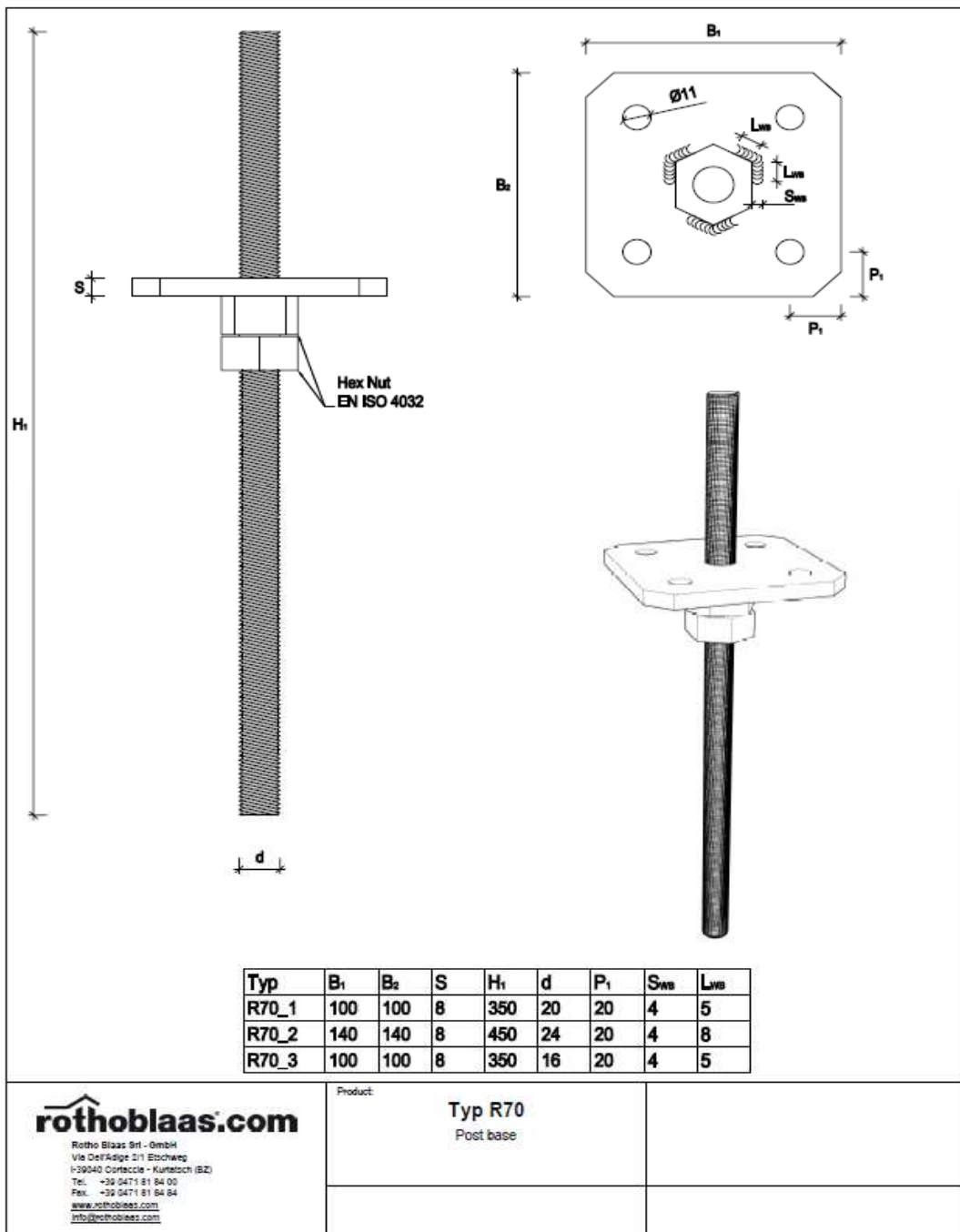
The design value of the load-carrying capacity is the smaller value of all load-carrying capacities:

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

$F_{Rk,H}$ 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)

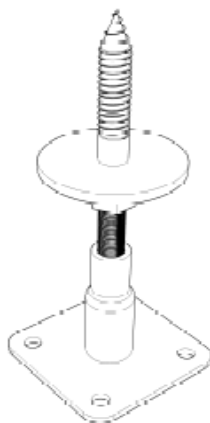
Characteristic load-carrying capacities

Type	F ₁ (Compression) [kN]			F ₁ (Tension) [kN]			F ₂₃ [kN]			F ₄₅ [kN]		
	Timber	Steel		Timber	Steel		Timber	Steel		Timber	Steel	
R70_1	108,4	66,9	66,4	-	-	-	-	-	-	-	-	-
R70_2	210,6	79,5	99,8	-	-	-	-	-	-	-	-	-
R70_3	106,2	54	39,6	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	γ_m	$\gamma_{m,0}$	$\gamma_{m,1}$									



Data sheet post base Type R90

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: R90_1

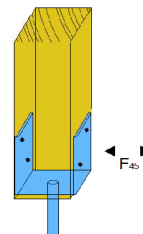
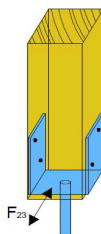
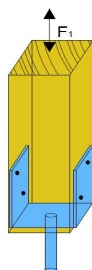


Product details and definitions

Post base		Metal Fasteners	Distances [mm]		
Type	Dimension	Type	max. a	e _{F2/F3}	e _{F4/F5}
R90_1	100x100	4x HBS+ 8x60mm	164	-	-

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	
R90_1	71,6	42,6	39,7	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	γ _m	γ _{m,0}	γ _{m,1}	γ _m	γ _{m,0}							

