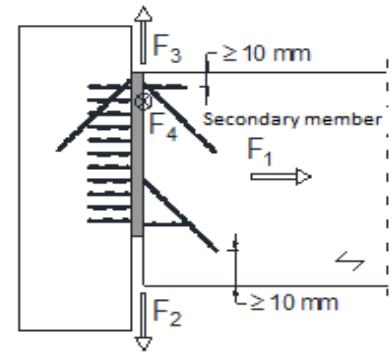
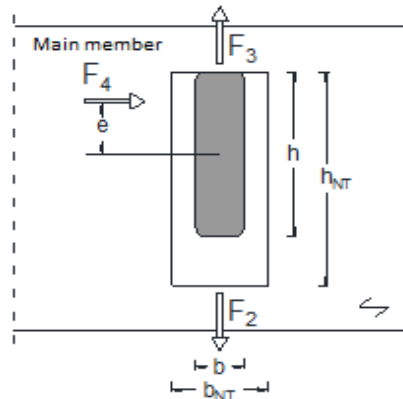




GH - Top UV 30

ETA 11/0036



For further design notes, refer to UV connectors in general, structural calculations

Dimensions

Timber-to-timber 40x85x16

Characteristic resistances per connector in kN All holes filled with screws

		Screws 45°						
		6x100	6x120	6x140	6x160	6x180	6x200	
Screws 90°	5x50	F _{1,Rk}	1,45	1,45	1,45	1,45	1,45	1,45
		F _{2,Rk}	19,2	19,2	19,2	19,2	19,2	19,2
		F _{3,Rk}	5,31	6,53	7,50	8,72	9,72	9,72
		F _{4,Rk}	e = 0 mm	5,20	5,20	5,20	5,20	5,20
	e = 43 mm		1,50	1,50	1,50	1,50	1,50	1,50
	5x60	F _{1,Rk}	1,76	1,76	1,76	1,76	1,76	1,76
		F _{2,Rk}	20,4	20,4	20,4	20,4	20,4	20,4
		F _{3,Rk}	5,31	6,53	7,50	8,72	9,72	9,72
		F _{4,Rk}	e = 0 mm	5,44	5,44	5,44	5,44	5,44
	e = 43 mm		1,57	1,57	1,57	1,57	1,57	1,57
	5x70	F _{1,Rk}	2,08	2,08	2,08	2,08	2,08	2,08
		F _{2,Rk}	21,2	21,6	21,6	21,6	21,6	21,6
F _{3,Rk}		5,31	6,53	7,50	8,72	9,72	9,72	
F _{4,Rk}		e = 0 mm	5,67	5,67	5,67	5,67	5,67	5,67
	e = 43 mm	1,64	1,64	1,64	1,64	1,64	1,64	
Minimum height of secondary member in mm		120	130	145	160	175	190	
Minimum width of secondary member in mm		60						
Resistance design value: $F_{i,Rd} = F_{i,Rk} \cdot k_{mod} / \gamma_{M,Timber}$ where $\gamma_{M,Timber} = 1.3$								



Characteristic resistances per connector in kN, partially screwed

		Screws 45°						
		6x100	6x120	6x140	6x160	6x180	6x200	
Screws 90°	5x50	F _{1,Rk}	1,45	1,45	1,45	1,45	1,45	1,45
		F _{2,Rk}	10,7	10,7	10,7	10,7	10,7	10,7
		F _{3,Rk}	5,31	6,53	7,50	8,72	9,72	9,72
		F _{4,Rk}	e = 0 mm	5,20	5,20	5,20	5,20	5,20
	e = 43 mm		1,50	1,50	1,50	1,50	1,50	1,50
	5x60	F _{1,Rk}	1,76	1,76	1,76	1,76	1,76	1,76
		F _{2,Rk}	11,3	11,3	11,3	11,3	11,3	11,3
		F _{3,Rk}	5,31	6,53	7,50	8,72	9,72	9,72
		F _{4,Rk}	e = 0 mm	5,44	5,44	5,44	5,44	5,44
	e = 43 mm		1,57	1,57	1,57	1,57	1,57	1,57
	5x70	F _{1,Rk}	2,08	2,08	2,08	2,08	2,08	2,08
		F _{2,Rk}	12,0	12,0	12,0	12,0	12,0	12,0
		F _{3,Rk}	5,31	6,53	7,50	8,72	9,72	9,72
		F _{4,Rk}	e = 0 mm	5,67	5,67	5,67	5,67	5,67
	e = 43 mm		1,64	1,64	1,64	1,64	1,64	1,64
Minimum height of secondary member in mm		120	130	145	160	175	190	
Minimum width of secondary member in mm		60						
Resistance design value: $F_{i,Rd} = F_{i,Rk} \cdot k_{mod} / \gamma_{M,Timber}$ where $\gamma_{M,Timber} = 1.3$								