Technical Sheet

BNG
Wind Bracing Connector

For safe completion of laterals

Features

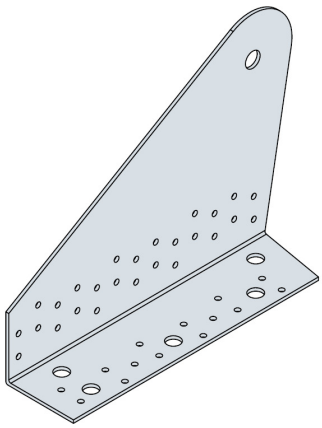
Material

Steel quality:

S250GD + Z275 according to DIN EN10346

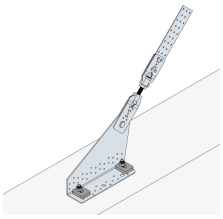
Corrosion protection:

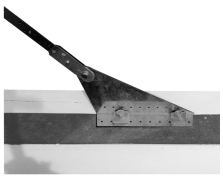
275 g / m galvanized on both sides 20mm



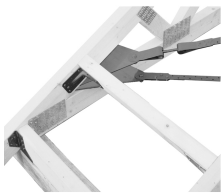




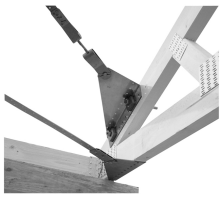




bnf-application-1-png.png



bnf-application-3-png.png



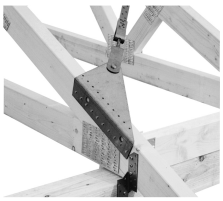
bnf-application-4-png.png



bnf-application-5-png.png



bnf-application-8-png.png



bnf-application-10-png.png

Benefits

• A ribbon connector to the end of X-shaped anchor system in the lower load range can be used BNF
• Unlike BPF BNG has a longer vertical leg with additional holes for fasteners.
• In addition to nails and screws, there is a possibility to connect BNG bolting to the rafters with screws or in concrete.
• U BNG60-B are two screw holes in the vicinity of the bending edge of the concrete connection

Applications

For Use With

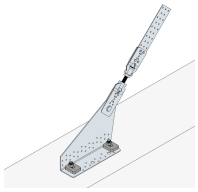
• To connect the X-shaped strip

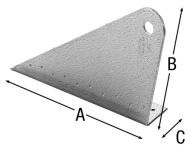
Technical Sheet

BNG
Wind Bracing Connector

Technical Data

Dimensions





Reference	Connector Dimensions											
	Other				Product Dimensions[mm]				Holes			
	Tun / DB nr.	NOB nr.	Box Quantity	Weight[kg]	A[mm]	A[mm]	E1[mm]	t[mm]	Holes on the top side		Holes in flange	
									Diameter	Qty	Diameter	Qty
BNG25-B	-	-	2	1.8	256	153	50	3	4 + 12.5	10 + 1	4 + 12.5	10 + 2
BNG60-B	-	-	2	2.6	262	198	69	3	5 + 21	26 + 1	5 + 13	14 + 5

Load-bearing capacity table (typical values) - selection option 1

Reference	Bracing capacity											
	Characteristic capacity - pattern 1											
	Timber width - bmin[mm]	min. value **) of:								Number of Fasteners		
		Steel Rk	Wood, at diagonal connection angle of:							Nails or bolts[antal]		
			30°	35°	40°	45°	50°	55°	60°	Side	Top	Type
BNG25-B	-	-	-	-	-	-	-	-	-	-	-	-
BNG60-B	58	34.3/kmod	10.9	23.8	29.4	31.9	39.6	32	27.7	-	13	CNA4,0x50

Load-bearing capacity table (typical values) - selection option 2

Reference	Bracing capacity											
	Characteristic capacity - pattern 2											
	Timber width - bmin[mm]	Number of Fasteners			min. value **) of:							
		Nails or bolts[antal]			Steel Rk	Wood, at diagonal connection angle of:						
		Side	Top	Type		30°	35°	40°	45°	50°	55°	60°
BNG25-B	45	-	10	CNA3,1x40	20.6/kmod	15.3	16.2	17.3	18.8	21.8	23.6	25.2
BNG60-B	-	-	-	-	-	-	-	-	-	-	-	-

Load-bearing capacity table (typical values) - selection option 3

Reference	Bracing capacity											
	Characteristic capacity - pattern 3											
	Timber width - bmin[mm]	min. value **) of:								Number of Fasteners		
		Steel Rk	Wood, at diagonal connection angle of:							Nails or bolts		
			30°	35°	40°	45°	50°	55°	60°	Side	Top	Type
BNG25-B	45	20.6/kmod	14.7	15.6	16.7	18.1	19.9	20.5	15.5	10	-	CNA3,1x40
BNG60-B	50	34.3/kmod	15	19.5	19.7	26.8	31.6	31	24.7	14	-	CNA4,0x50

Technical Sheet

BNG
Wind Bracing Connector

Load-bearing capacity table (typical values) - design variant 4

Reference	Bracing capacity											
	Characteristic capacity - pattern 4											
	Timber width - bmin[mm]	min. value **) of:								Number of Fasteners		
		Steel Rk	Wood, at diagonal connection angle of:							Nails or bolts		
			30°	35°	40°	45°	50°	55°	60°	Side	Top	Type
BNG25-B	50	20.6/kmod	23.3	28.1	32	35.1	26.8	26.3	21.9	10	10	CNA3,0x40
BNG60-B	58	34.3/kmod	44.2	39.8	33.4	35.4	36.4	37.5	35.7	14	13	CNA4,0x50

Load-bearing capacity table (typical values) - design variant 5

Reference	Bracing capacity											
	Characteristic capacity - pattern 5											
	Timber width - bmin[mm]	min. value **) of:								Number of Fasteners		
		Steel Rk	Wood, at diagonal connection angle of:							Nails or bolts		
			30°	35°	40°	45°	50°	55°	60°	Side	Top	Type
BNG25-B	58	20.6/kmod	10.5	11.1	11.9	12.9	14.2	15.9	18.2	2	-	M12 bolt*
BNG60-B	58	34.3/kmod	11.9	12.5	13.4	14.5	16	15.7	12.8	3	-	M12 bolt*

* with U-shaped washer 40x50x10

Load-bearing capacity table (typical values) - concrete design variant

Reference	Bracing capacity											
	Characteristic capacity - pattern 6											
	Timber width - bmin[mm]	min. value **) of:								Number of Fasteners		
		Steel Rk	Wood, at diagonal connection angle of:							Nails or bolts		
			30°	35°	40°	45°	50°	55°	60°	Side	Top	Type
BNG25-B	-	20.6/kmod	11.1	12.8	15.3	12.6	9.8	7.9	6.7	2	-	BoAX-II M12 *
BNG60-B	-	34.3/kmod	8.5	9.2	10	11	12.3	13.2	10.5	2	-	BoAX-II M12 *

* with U-shaped washer 40x50x10

Installation

Fixing

- **CNA4,0 × L Nail**
- **or CSA5,0 × L Bolt**
- **or M12 bolts for connection to a concrete / steel**

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