

BSNN-Z Joist hanger ZPRO

Joist hangers are used for the connection of secondary beams to main beams or posts. ZPRO coating is a unique coating - corresponding to a zinc layer of approx. 55 μm

Features

Material

Steel quality:
S250GD + ZPRO

Corrosion protection:
ZPRO coating - corresponding to a zinc layer of approx. 55 μm

Benefits

- The BSNN-Z joist hangers are also approved for three-axle loads.
- Connections to concrete, steel and masonry are permissible, see static values.

Applications

Suitable On

Supporting member:

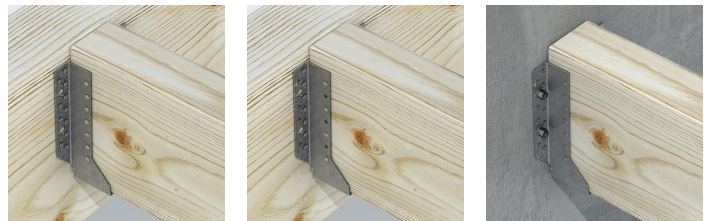
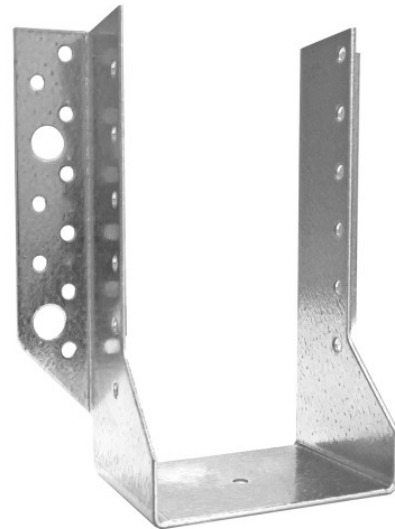
- Solid wood, engineered wood, concrete, steel

Supported member:

- Solid wood, engineered wood

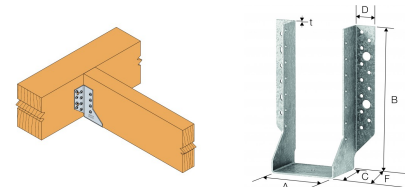
When to Use

- For connections of secondary beams made of wood or engineered wood to main beams / posts made of engineered wood or concrete / steel.



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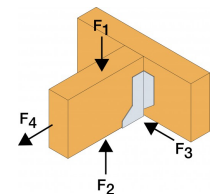
Technical Data



Product dimensions

References	DB nr.	NOBB nr.	Joist Dimensions [mm]				Product dimensions [mm]						Header holes		Joist holes	Box Quantity
			Width		Height		A	B	C	D	F	t	Ø5 [mm]	Ø11.5 [mm]	Ø5 [mm]	
			min	max	min	max										
BSNN45/93Z	2125769	-	43	45	102	139	45	92	60	27	63	2	8	2	6	50
BSNN45/138Z	2125775	-	43	45	148	206	45	138	60	27	63	2	16	2	10	40
BSNN45/168Z	2125778	-	43	45	178	251	45	168	60	27	63	2	18	4	12	40
BSNN48/91Z	-	57071000	46	48	101	136	48	91	60	27	63	2	8	2	6	50
BSNN48/136Z	-	57071015	46	48	146	204	48	136	60	27	63	2	16	2	10	40
BSNN48/166Z	-	57071026	46	48	176	249	48	166	60	27	63	2	18	4	12	40

Product capacities - Timber to timber - full nailing



References	Product capacities - Timber to timber - Full nailing															
	Fasteners		Characteristic capacities - Timber C24 [kN]													F
	Header	Joist	R _{1,k}						R _{2,k}							
	Qty	Qty	CNA 4.0x35	CNA 4.0x40	CNA4.0x50	CNA4.0x60	CSA 5.0x40	CNA 4.0x35	CNA 4.0x40	CNA4.0x50	CNA4.0x60	CSA 5.0x40	CNA 4.0x35	CNA 4.0x40	CNA4.0x50	
BSNN45/93Z	8	6	7.2	8.4	-	-	16.1	4.7	4.7	-	-	4.6	3.4	3.9	-	
BSNN45/138Z	16	10	17.1	19.9	-	-	27	6.6	6.6	-	-	6.5	6.7	7.7	-	
BSNN45/168Z	18	12	22.1	25.4	-	-	31.5	7.4	7.4	-	-	7.3	7.8	9	-	
BSNN48/91Z	8	6	7.1	8.4	-	-	15.9	5	5	-	-	5	3.4	3.9	-	
BSNN48/136Z	16	10	16.9	19.7	-	-	27	7	7	-	-	7	6.7	7.7	-	
BSNN48/166Z	18	12	21.9	25.2	-	-	31.5	7.9	7.9	-	-	7.9	7.8	9	-	

The uplift capacities R_{2,k} are determined for a joist with a height of 4/3x B (B = height of BSNN). Also for connection. For smaller sizes it may be possible to determine a higher capacity according to the ETA.

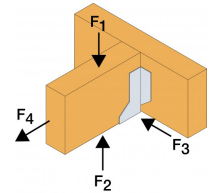
Combined load:

$$\sum \left(\frac{F_{i,d}}{R_{i,d}} \right)^2 \leq 1$$

Technical data sheet



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Product capacities - Timber to timber - Partial nailing

References	Product capacities - Timber to timber - Partial nailing														
	Fasteners		Characteristic capacities - Timber C24 [kN]												
	Header	Joist	R _{1,k}					R _{2,k}					F		
	Qty	Qty	CNA 4.0x35	CNA 4.0x40	CNA4.0x50	CNA4.0x60	CSA 5.0x40	CNA 4.0x35	CNA 4.0x40	CNA4.0x50	CNA4.0x60	CSA 5.0x40	CNA 4.0x35	CNA 4.0x40	CNA4.0x50
BSNN45/93Z	6	3	6.4	7.4	-	-	11.3	3.8	4.5	-	-	4.6	1.3	1.4	-
BSNN45/138Z	10	6	11.5	13.3	-	-	18	6.6	6.6	-	-	6.5	2.4	2.7	-
BSNN45/168Z	12	6	13.3	14.6	-	-	18	7.4	7.4	-	-	7.3	2.9	3.2	-
BSNN48/91Z	6	3	6.3	7.4	-	-	11.3	3.8	4.5	-	-	5	1.3	1.4	-
BSNN48/136Z	10	6	11.4	13.2	-	-	18	7	7	-	-	7	2.4	2.7	-
BSNN48/166Z	12	6	13.3	14.6	-	-	18	7.9	7.9	-	-	7.9	2.9	3.2	-

Combined load:

$$\sum \left(\frac{F_{i,d}}{R_{i,d}} \right)^2 \leq 1$$

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Installation

Fixing

Timber support:

- CNA-G 4.0xl or CSA-Z 5.0xl

Steel Support:

- Bolt M10

Concrete Support:

- Anchor M10

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