Technical Sheet

SDE
Width Adjustable Face Fix Joist Hanger

The SDE is a two piece, width adjustable face fix hanger. The two separate components that make up the SDE system can be adjusted to suit a range of joist widths between 60mm to 250mm. Each SDE is supplied as a pair. Optional bolt holes (13mm diameter).



Features

Material

- Galvanised steel S250GD + Z275 according to NF EN 10346.

Avantages

- Great flexibility in use in new and refurbished condition.

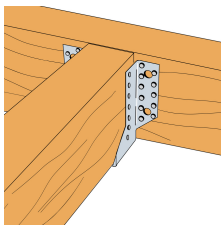
Applications

Support

- **Supporting member:** wood, concrete, steel
- **Supported member:** solid wood, composite lumber

Intend Use

- Joists
- Refurbishment of existing assemblies



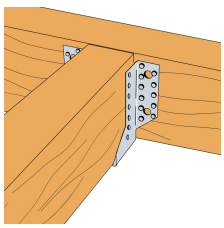
Installation Timber to timber



Two elements hangers SDEG



Two elements hangers SDED

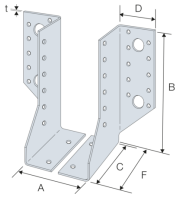


Installation Timber to timber

Technical Sheet

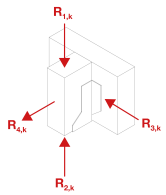
SDE
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Technical Data



Product Dimensions

Reference	Connector Dimensions													
	Timber size[mm]				Product Dimensions[mm]						Header holes		Joist holes	Other
	Height		Width		A[mm]	B[mm]	C[mm]	D[mm]	F[mm]	t[mm]	Round		Round	Weight[kg]
	Min[mm]	Max.[mm]	Min[mm]	Max.[mm]							Ø5[mm]	Ø13[mm]	Ø5[mm]	
SDEG300/30	120	177	60	250	60	118	84	41.5	86	2	9	2	5	0.18
SDED300/30	120	177	60	250	60	118	84	41.5	86	2	9	2	5	0.18
SDEG340/30	140	207	60	250	60	138	84	41.5	86	2	11	2	6	0.22
SDED340/30	140	207	60	250	60	138	84	41.5	86	2	11	2	6	0.2
SDEG380/30	160	237	60	250	60	158	84	41.5	86	2	11	2	6	0.26
SDED380/30	160	237	60	250	60	158	84	41.5	86	2	11	2	6	0.26
SDEG440/30	190	282	60	250	60	188	84	41.5	86	2	14	2	8	0.29
SDED440/30	190	282	60	250	60	188	84	41.5	86	2	14	2	7	0.29



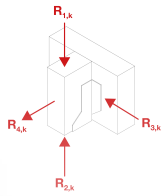
Product Capacities

Reference	Hanger capacity				
	Characteristic capacities - Timber to timber - Full nailing				
	Number of Fasteners		Product characteristic capacities - Timber C24[kN]		
	Header	Joist	$R_{1,k}$	$R_{2,k}$	$R_{3,k}$
	Qty	Qty	CNA4,0x50	CNA4,0x50	CNA4,0x50
SDEG300/30	9.0	5	20.3	17.6	14.6
SDED300/30	9.0	5	20.3	17.6	14.6
SDEG340/30	11.0	6	26.6	24	15.8
SDED340/30	11.0	6	26.6	24	15.8
SDEG380/30	11.0	6	26.6	24	13.9
SDED380/30	11.0	6	26.6	24	13.9
SDEG440/30	14.0	7	33.2	33.2	14
SDED440/30	14.0	7	33.2	33.2	14

Capacities are given for a pair of SDE (SDEG + SDED)
Combined Load:
$\left(\frac{F_{1/2,d}}{R_{1/2,d}}\right)^2+\left(\frac{F_{3,d}}{R_{3,d}}\right)^2\le1$

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Product Capacities - Timber to Timber - Full nailing Br36

Product Capacities - Timber to Timber - Full nailing Br36
See full table online ➡️

Reference	Number o Fasteners												
	Header	Jo									king Loads[kN]		$R_{2,s}W_{l,sh}$
	Qty	Qty	N3.75x30	CNA4,0x50	N3.75x30	Ø4.0x100	CNA4,0x50	Ø4.0x100	N3.75x30	Ø4.0x100	CNA4.0x50[kN]	N3.75x30	Ø4.0x10

Installation

Fasteners

On wood:

- CNA annular ring-shank nails dia. 4.0 x 50 mm
- Lag screws and bolts dia. 10 or dia. 12 mm

On concrete:

Concrete substrate:

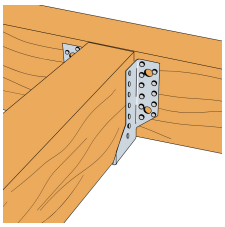
- *Mechanical anchor:* WA M12-104/5 pin
- *Chemical anchor:* AT-HP resin + LMAS M12-150/35 threaded rod

Hollow masonry substrate: **(check the load bearing capacity of the anchors)**

- *Chemical anchor:* AT-HP or POLY-GP resin + LMAS M12-150/35 + SH M16-130 screen

Installation

- Use all fasteners as specified in the table below.
- Check that the header can accomodate the fasteners specified.
- Each SDE piece must also be nailed through the holes underneath the joist.



Installation Timber to timber

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