

Technical data sheet

SIMPSON

Strong-Tie

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.

Advantages

- Great flexibility in use in new and refurbished condition.

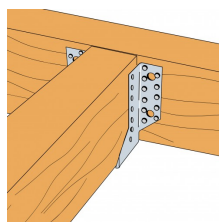
Applications

Support

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

Intend Use

- Joists
- Refurbishment of existing assemblies



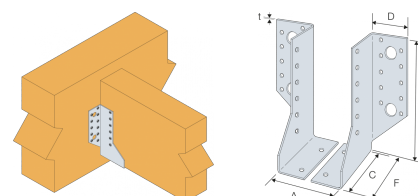
Installation Timber to timber

SDE

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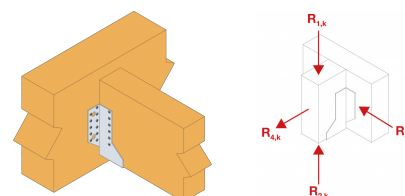
Technical Data

Product Dimensions



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

Product Capacities



References	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	5	20.3	17.6	14.6
SDED300/30	9	5	20.3	17.6	14.6
SDEG340/30	11	6	26.6	24	15.8
SDED340/30	11	6	26.6	24	15.8
SDEG380/30	11	6	26.6	24	13.9
SDED380/30	11	6	26.6	24	13.9
SDEG440/30	14	7	33.2	33.2	14
SDED440/30	14	7	33.2	33.2	14

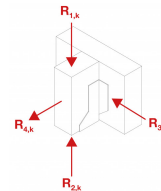
Capacities are given for a pair of SDE (SDEG + SDED)

Combined Load:

$$\left(\frac{F_{1/2,d}}{R_{1/2,d}} \right)^2 + \left(\frac{F_{3,d}}{R_{3,d}} \right)^2 + \left(\frac{F_{4,d}}{R_{4,d}} \right)^2 \leq 1$$

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Product Capacities - Timber to Timber - Full nailing Br36

Table "Product Capacities - Timber to Timber - Full nailing Br36" cannot be displayed : no references available.

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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:

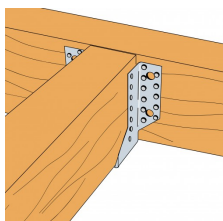
- *Mechanical anchor:* WA M12-104/5 pin
- *Chemical anchor:* AT-HP resin + LMAS M12-150/35 threaded rod

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 accommodate the fasteners specified.
- Each SDE piece must also be nailed through the holes underneath the joist.



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