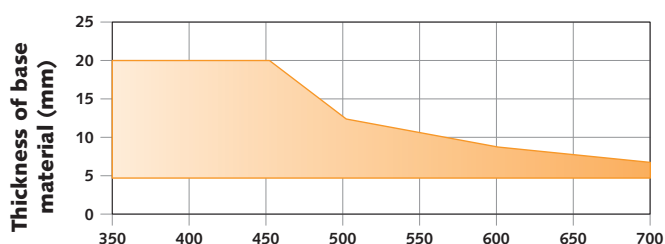


Eurocode 032650

Application limit

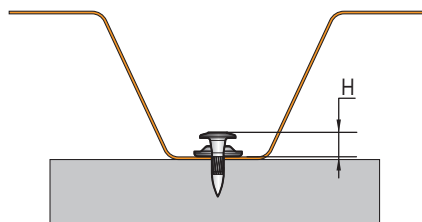


S235 S275 S355 E335

Designation according to European standard EN 10027-1

Ultimate tensile strength of base material (N/mm²)

Fixing control



- $H_{\text{mini}} = 5 \text{ mm}$ and $H_{\text{maxi}} = 7 \text{ mm}$ for guaranteeing the recommended working loads within the application limits.
- Max sheet thickness : 2 sheets with max thickness of 1mm.

Description

For fixing metal cladding sheets to steel framework

Material properties

The SBR9 nails are composed of :

- **Carbon steel shank**
 - Ultimate tensile strength : 2000 N/mm²
 - Yield strength : 1600 N/mm²
 - Electrogalvanised, Min zinc coating 7 µm
- **Steel washer**
 - Min zinc coating 8 µm
 - The washer is designed to give effective clamping force

Tools

P370 & P200

Recommended loads

The recommended loads given below are suitable for a resistance of base material higher than 400 N/mm² and with a minimum thickness of 5mm.

Sheet thickness ⁽¹⁾ Fuk > 390N/mm ² (S320GD)	Design resistance [kN]		Recommended load [kN]	
	Shear	Tensile	Shear	Tensile
	N_{Rd}	V_{Rd}	V_{Rec}	N_{Rec}
0.75 mm	2.5	2.2	1.7	1.4
1.00 mm	3.2	3.2	2.2	2.2
1.25 mm	4.0	4.7	2.6	3.1
1.50 mm	4.1	4.7	2.8	3.1
2.00 mm	4.3	4.7	2.9	3.1

$F_{\text{rec}} = F_{Rk} / 2.5$: the recommended load is calculated from the characteristic load and a global safety factor equal to 2.5.

Recommended load is calculated with a safety factor $\gamma_F = 1.5$.

⁽¹⁾ For a sheet thickness equal to 2mm, it is possible to use 2 sheets of 1mm.