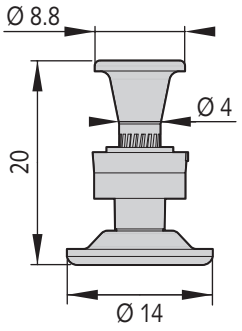
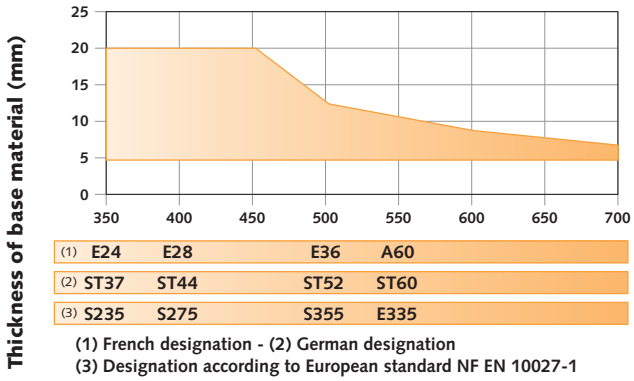
# SPIT SBR9




**Code 032650**

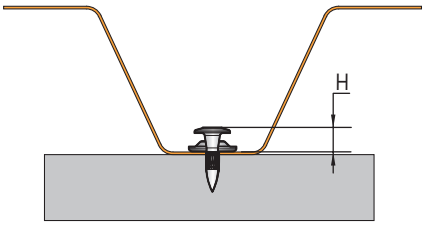
## APPLICATION LIMIT




(1) French designation - (2) German designation
(3) Designation according to European standard NF EN 10027-1

**Ultimate tensile strength of base material (N/mm²)**

## CONTROL FIXING




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

## DESCRIPTION

Fix metal cladding sheets to steel framework.

## PROPERTIES MATERIAL

The SBR9 pin is composed of:

### Shank in carbon steel

- Ultimate tensile strength: 2000 N/mm²
- Yield strength: 1600 N/mm²
- Hardness: 54-58 HRc
- Electrogalvanizing, Min zinc coating 7 µm

### One steel washer

- Min zinc coating 8 µm
- The plate washer developed for a good clamping of the plates to avoid damages when firing.

## TOOL

P370

## RECOMMENDED LOAD

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

| Sheet thickness (1) $F_{uk}$ > 390N/mm² (S320GD) | Design resistance [kN] | | Recommended load [kN] | |
|---|---|---|---|---|
| | Tensile | Shear | Tensile | Shear |
| | $N_{Rd}$ | $V_{Rd}$ | $N_{Rec}$ | $V_{Rec}$ |
| 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 |

**$F_{rec} = F_{Rk} / 2.5$**: 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 2 mm, it is possible to use 2 sheets of 1 mm.