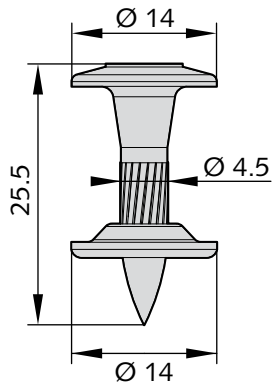
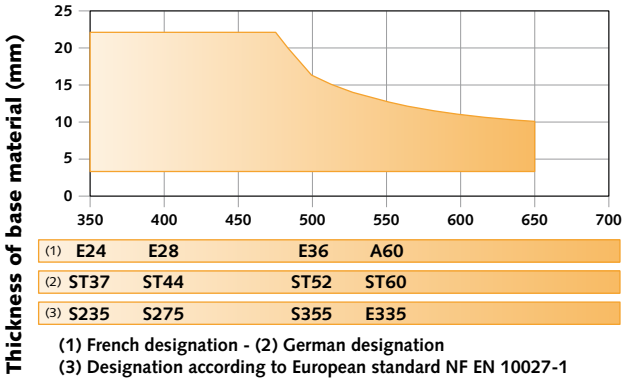
SPIT SBR14



Code 030750 (in bulk) / 030760 (in tube)

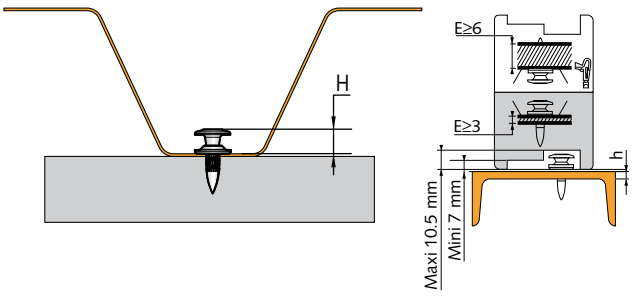
APPLICATION LIMIT



(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



A control card

Thickness of base material	H_{min}[1] (mm)	H_{max}[1] (mm)
3 ≤ h < 6 mm[2]	7	10.5
h ≥ 6 mm	5	10.5

(1) Values obtained with 0.75 mm steel sheet.
(2) French rules AT CSTB.

DESCRIPTION

Cladding panels / roofing

PROPERTIES MATERIAL

The SBR14 nails is composed of :

Shank in carbon steel

- Ultimate tensile strength : 2300 N/mm²
- Yield strength : 1600 N/mm²
- Electrogalvanizing, min zinc coating 7 µm
- Hardness : 54 to 58 HRc

One steel washer

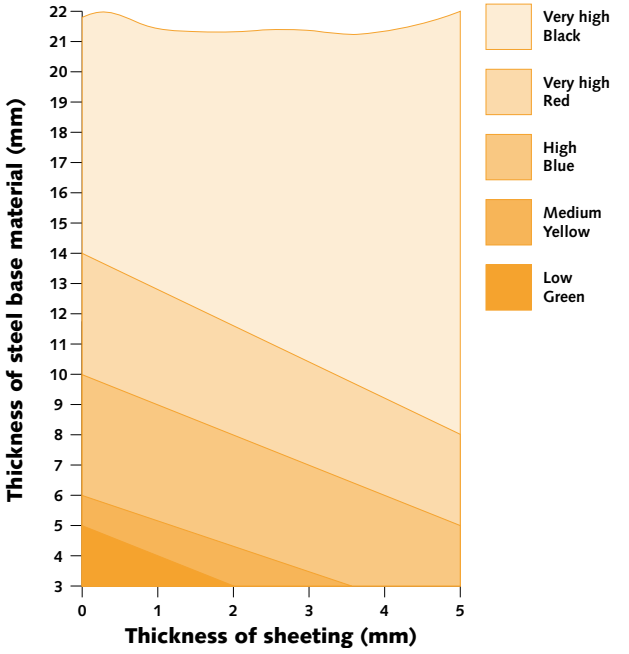
- Min zinc coating 8 µm
- Electrogalvanizing
- The plate washer developed for a good clamping of the plates to avoid damages when shooting.

Kesternitch test, 2 cycles exposure

TOOLS

P230 – P525L

POWER SETTING



SPIT SBR14

ACCORDING FRENCH RULES (TECHNICAL APPROVAL ISSUE FROM CSTB, N° 5/04-1775) :

Thickness of base material S235 (E24) quality	Characteristic load[1] (kN), for connection of one sheet with thickness 0,75 mm **fuk > 400 N/mm² (S280GD)** N_{rk}
3 ≤ h < 6 mm	3
h ≥ 6 mm	6

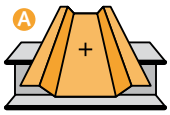
[1] according to the standard NF P 84-206, ref. DTU 43.3

ACCORDING DIBT GERMAN APPROVAL N° Z-14.1-4 :

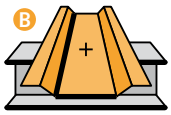
¬ Base material :

Resistance of base material S235 (E24) and with a thickness higher than 6mm according to the field of application given in the first page.

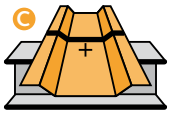
¬ Sheetings and type of connections :



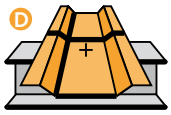
1 sheeting



2 sheetings



2 Sheetings



4 sheetings

Sheeting thickness (mm)	Characteristic loads [kN]		Design loads [kN]		Recommended laods [kN]		Connection type
	Shear	Tensile	Shear	Tensile	Shear	Tensile	
	V_{Rk}	N_{Rk}	V_{Rd}	N_{Rd}	V_{Rec}	N_{Rec}	
0.63	3.4	2.4	2.5	1.8	1.7	1.2	A B C D
0.75	4.4	4.0	3.3	3.0	2.2	2.0	A B C D
0.88	5.6	5.2	4.2	3.9	2.8	2.6	A B C D
1.00	6.8	6.4	5.1	4.8	3.4	3.2	A B C D
1.13	8.2	7.8	6.1	5.9	4.1	3.9	A
1.25	9.4	9.4	7.1	7.1	4.7	4.7	A
1.50	9.4	9.4	7.1	7.1	4.7	4.7	A
1.75	9.4	9.4	7.1	7.1	4.7	4.7	A
2.00	9.4	9.4	7.1	7.1	4.7	4.7	A
2.50	9.4	9.4	7.1	7.1	4.7	4.7	A

$V_{Rd} = V_{Rk} / \gamma_M$: the design load is calculated from the characteristic load and a partial safety factor **$\gamma_M = 1.33$.**

$N_{Rd} = \alpha_{cycl} \times N_{Rk} / \gamma_M$: the design load is calculated from the characteristic load and a partial safety factor **$\gamma_M = 1.33$** and **$\alpha_{cycl} = 1$.**

For the calculation of the recommended load, we applied the partial safety factor **$\gamma_F = 1.5$.**