

BIFIX® 4.8XL 1P EcoZin

Carbon Steel Self-Drilling Stitching Screw



PRODUCT DESCRIPTION

BIFIX® 4.8XL 1P EcoZin, carbon steel self-drilling stitching screw with a hex washer head and bonded EPDM sealing washer, designed for metal-to-metal fixing of side lap joints in steel roofing and wall cladding systems. Coated with JOPAL advanced EcoZin™ corrosion protection system.

TYPICAL APPLICATIONS / KEY FEATURES

- Side lap joints of profiled steel roofing sheets
- Side lap joints of profiled steel wall cladding sheets
- Metal-to-metal fixing of thin steel sheets
- Roofing and façade sheet overlap connections
- Light gauge steel sheet assemblies

- Carbon steel self-drilling screw
- Hex washer head (Hex 8 drive)
- 14 mm bonded steel washer with 2 mm EPDM sealing washer
- EcoZin™ high corrosion resistance coating system
- No pre-drilling required
- Reliable weather-tight seal
- Drilling Capacity $t + t : \leq 2 \text{ mm}$

SIZE RANGE

Art. Code	Diameter (mm)	Length (mm)	Drill Point	Clamping Thickness (mm)	Washer Ø (mm)	Pcs/Box
10014801614	4.8	16	1P	0-3	14	500
10014802014	4.8	20	1P	0-4	14	500

TECHNICAL DATA

General Technical Data		
Property	Unit	Value
Material Standard	—	Carbon Steel (SAE 1022)
Head Type	—	Hex Washer Head
Drive Size	mm	Hex 8
Washer Diameter	mm	14
EPDM Thickness	mm	2
Coating System	—	EcoZin™ 1000-1500 SST
Recommended Installation Speed	rpm	1800-2500
Tensile Load	kN	10.1
Single Shear Load	kN	6.5
Torsional Strength	Nm	7.0

Pull-Out Resistance P_o — Steel Substrate ($F_u \geq 450 \text{ MPa}$)					
Steel Substrate t (mm)	0.91	1.21	1.52	1.90	2.00
Gauge	20	18	16	14	12
Pull-Out Resistance (kN)	1.67	2.23	2.79	3.48	3.67

Pull-Over Resistance P_{ov} — Steel Sheet ($F_u \geq 450 \text{ MPa}$)						
Steel Sheet t (mm)	0.46	0.53	0.61	0.76	0.91	1.21
Gauge	26	25	24	22	20	18
Pull-Over Resistance (kN)	4.30	5.02	5.74	7.17	8.62	11.47

Pull-Over Resistance — Aluminium Sheet ($F_u \geq 215 \text{ MPa}$)						
Aluminium Sheet t (mm)	0.46	0.53	0.61	0.76	0.91	1.21
Gauge	26	25	24	22	20	18
Pull-Over Resistance (kN)	4.30	5.00	5.74	7.15	8.60	11.45