

Technical Sheet

**FRUL
SIDER**

SIMPSON
StrongTie

VF Concrete Screw

VF is a concrete screw Ø7.5 mm for the assembly of window and door frame elements designed for fixings in various building materials.

Features

Benefits

- Ideal for stand-off fixings
- Allows fixings near the edge
- Small hole diameter
- Prevents deformation of the frame

Applications

Material

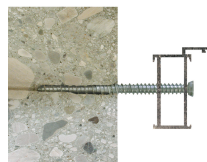
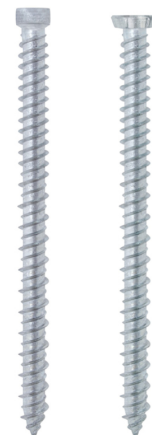
- Steel
- White zinc plated

Applications

- Window and door frames
- Wood profiles and battens
- Connectors

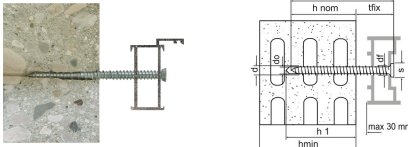
Suitable for

- Non-cracked concrete
- Solid brick
- Honeycomb brick (partially suitable)
- Aerated concrete (partially suitable)
- Solid stone (partially suitable)
- Wood



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Technical Data



Product Dimension - Cylindrical Head Screw

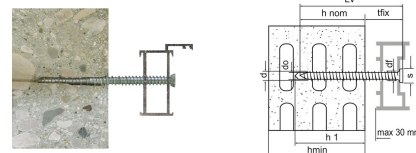
Reference	Metallic fixings dimensions								Installation data		
	Product Dimensions[mm]			Title	Other				Installation data		Spacing and edge distances
	Dimensions [dxLv][mm]	Head diameter [s][mm]	Bit		Hole diameter [d _o][mm]	Hole diameter in fixture [df][mm]	Fixture thickness [tf _{ix}] ⁽¹⁾ [mm]	Qty per box[pcs]	Qty per outer box	Nominal embedment depth [h _{nom}][mm]	Min. hole depth [h _{1>}][mm]
<i>(1)Max fixing thickness refers to installation on concrete</i> <i>* Not covered by CE certification</i>											

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Product Dimension - Countersunk Head Screw

Reference	Metallic fixings dimensions									Installation data		
	Product Dimensions[mm]			Title	Other					Installation data		Spacing and edge distances
	Dimensions [dxLv][mm]	Head diameter [s][mm]	Bit		Hole diameter [d_o][mm]	Hole diameter in fixture [d_f][mm]	Fixture thickness [t_fix] (*)[mm]	Qty per box[pcs]	Qty per outer box	Nominal embedment depth [h_nom][mm]	Min. hole depth [h_1>][mm]	Min. support thickness [h_min][mm]
19419B0704000	Ø7,5x40	11.5	T-30	VF	6	6.2	10	100.0	1200	30	40	60
19419B0706000	Ø7,5x60	11.5	T-30	VF	6	6.2	30	100.0	800	30	40	60
19419B0707000	Ø7,5x70	11.5	T-30	VF	6	6.2	40	100.0	800	30	40	60
19419B0708000	Ø7,5x80	11.5	T-30	VF	6	6.2	50	100.0	800	30	40	60
19419B0709000	Ø7,5x90	11.5	T-30	VF	6	6.2	60	100.0	800	30	40	60
19419B0710000	Ø7,5x100	11.5	T-30	VF	6	6.2	70	100.0	800	30	40	60
19419B0712000	Ø7,5x120	11.5	T-30	VF	6	6.2	90	100.0	600	30	40	60
19419B0713500	Ø7,5x135	11.5	T-30	VF	6	6.2	105	100.0	600	30	40	60
19419B0715000	Ø7,5x150	11.5	T-30	VF	6	6.2	120	100.0	600	30	40	60
19419B0718000	Ø7,5x180	11.5	T-30	VF	6	6.2	150	100.0	400	30	40	60
19419B0721000	Ø7,5x210*	11.5	T-30	VF	6	6.2	180	50.0	200	30	40	60
19419B0724000	Ø7,5x240*	11.5	T-30	VF	6	6.2	210	50.0	-	30	40	60

(1) Max fixing thickness refers to installation on concrete

* Size not covered by CE certification

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Recommended loads / for single anchors 1)

Reference	Metallic fixings dimensions		Metallic fixings loads								
	Product Dimensions[mm]	Title	Recommended loads 1) for single anchor								
	Dimensions [dxLv] [mm]		Max torque 5) [Nm]	Honeycomb brick (Bimattone) 2) fb _k ≥ 10 N/mm²		Solid brick 2) fb _k ≥ 20 N/mm²		Pine-wood 3) ρ _k = 450kg/m³		Concrete C20/25	
				N _{reC} [kN]	V _{reC} [kN]	N _{reC} [kN]	V _{reC} [kN]	N _{reC} [kN]	V _{reC} [kN]	N _{reC} [kN]	V _{reC} [kN]
19419B0709000	Ø7,5x90	VF	20	0.1	0.3	1.3	1.5	1.1	-	1.5	1.5
19419B0710000	Ø7,5x100	VF	20	0.1	0.3	1.3	1.5	1.1	-	1.5	1.5
19419B0713500	Ø7,5x135	VF	20	0.1	0.3	1.3	1.5	1.1	-	1.5	1.5
19419B0715000	Ø7,5x150	VF	20	0.1	0.3	1.3	1.5	1.1	-	1.5	1.5
19419B0718000	Ø7,5x180	VF	20	0.1	0.3	1.3	1.5	1.1	-	1.5	1.5

1)The allowable loads Nzul / Vzul were determined from the average values of the breaking loads, taking into account a safety factor γ = 4 (γ = 5 for vertically perforated bricks). Design and dimensioning shall be carried out in accordance with the Friulsider design guide.

2) Anchoring base without plaster layer.

concrete: h_{nom} = 30mm

solid masonry: h_{nom} = 40mm

honeycomb brick (Bimattone): h_{nom} = 60mm

3) Pine wood average gross density ρ_k = 450 kg/m³ / moisture content approx. 12 % / fiber direction α > 30°.

Pine wood: h_{nom} = 40mm

5) The installation torque must be adjusted according to the type of installation and the anchoring base.

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Installation

