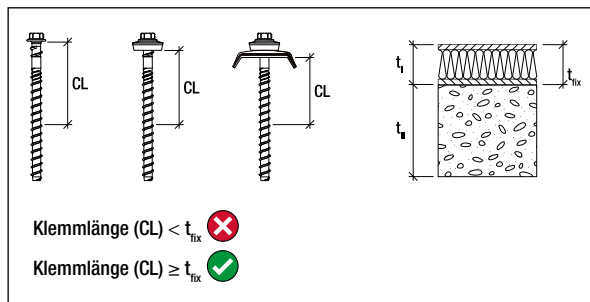
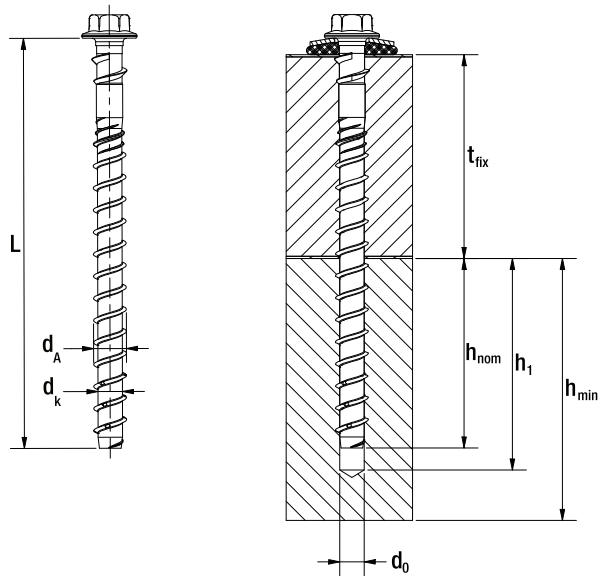


Betonschraube JC6-D-7,5xL



Verankerungsgrund

- > Bewehrter oder unbewehrter Normalbeton nach EN 206:1-2017
- > Festigkeitsklasse C20/25 bis C50/60 nach EN 206:1-2017
- > Gerissener oder ungerissener Beton

Technische Daten

Nominelle Einschraubtiefe	$h_{nom} \geq$ [mm]	65,0
Vorgebohrtes Loch im Sandwichelement	d_{sw} [mm]	6,0–6,5
Bohrlochdurchmesser	d_0 [mm]	6,0
Schneidendurchmesser des Bohrers	d_{cut} [mm]	6,05–6,40
Empfohlener Schneidendurchmesser des Bohrers	d_{cut} [mm]	6,15–6,40
Bohrlochtiefe bis zum tiefsten Punkt	$h_1 \geq$ [mm]	80,0
Mindestbauteildicke	h_{min} [mm]	100
Schraubenaußendurchmesser	d_A [mm]	7,5
Schraubenkerndurchmesser	d_K [mm]	5,55
Material	1.4401 nach EN 10088-1-2015 mit gehärteter Furchzone	

Charakteristische Tragfähigkeit in gerissenem und ungerissenem Beton C20/25-C50/60

Stahlversagen

Charakteristische Zugfestigkeit	$N_{Rk,s}$ [kN]	15,7
Charakteristische Scherfestigkeit	$V_{Rk,s}$ [kN]	9,6

Auszugsversagen

Charakteristischer Widerstand in gerissenem Beton C20/25	$N_{Rk,p}$ [kN]	4,0
Charakteristischer Widerstand in ungerissenem Beton C20/25	$N_{Rk,p}$ [kN]	8,0
Steigender Faktor für $N_{Rk,p}$	ψ_C	C25/30 1,04
		C30/37 1,07
		C35/45 1,09
		C40/50 1,12
		C45/55 1,14
		C50/60 1,16
Teilweiser Sicherheitsfaktor	γ_{inst} [-]	1,0
	$\gamma_{Mp}^{1)}$ [-]	1,5

¹⁾ In Ermangelung anderer nationaler Vorschriften

Hinweise



ETA-21/1107



Fachregeln des
Metallleichtbaus (IFBS)



Augenschutz benutzen



Gehörschutz benutzen



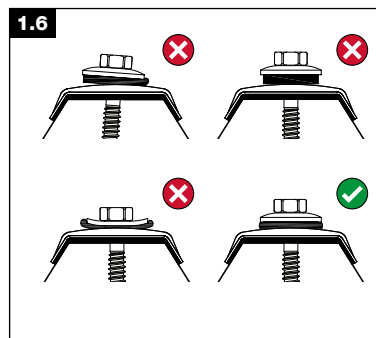
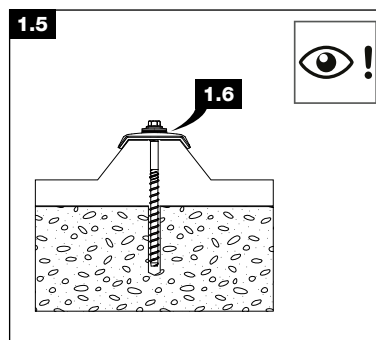
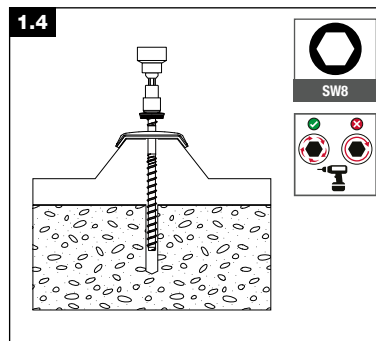
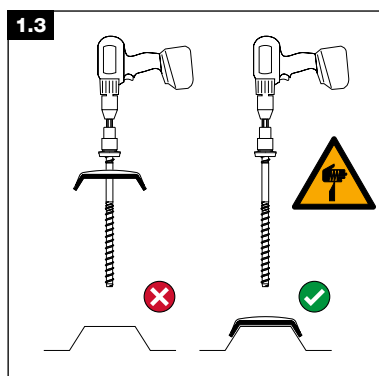
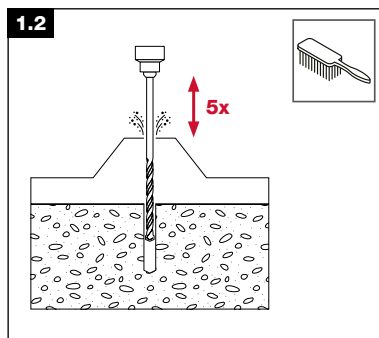
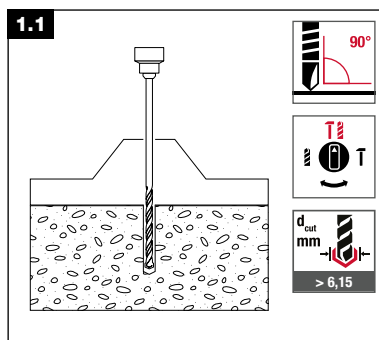
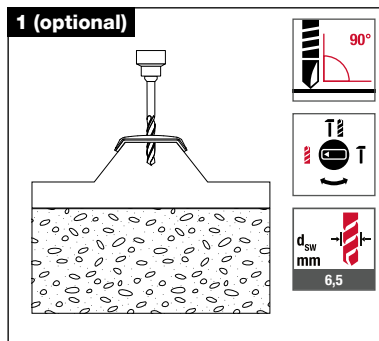
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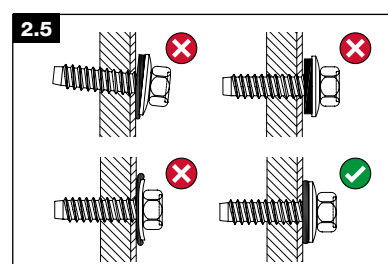
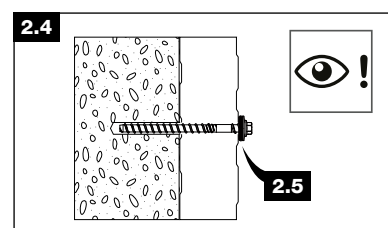
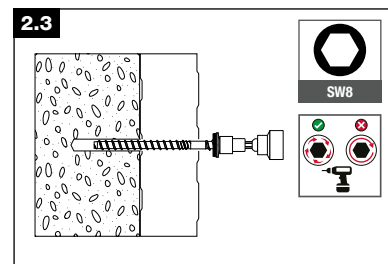
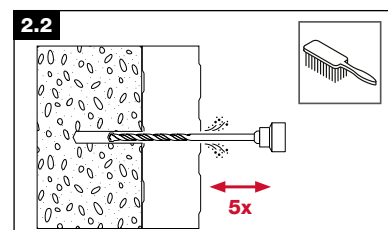
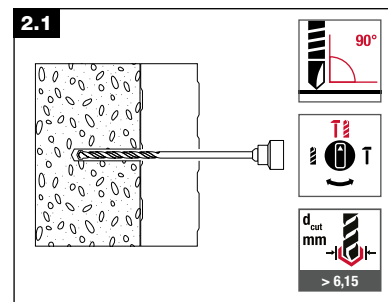
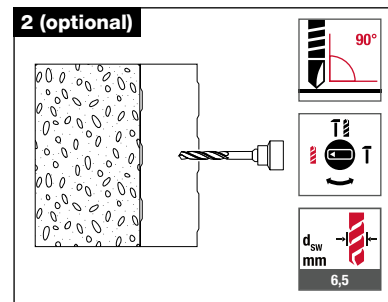
Bewehrung detektieren

Betonschraube JC6-D-7,5xL

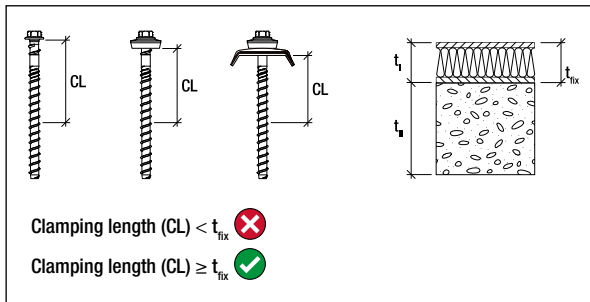
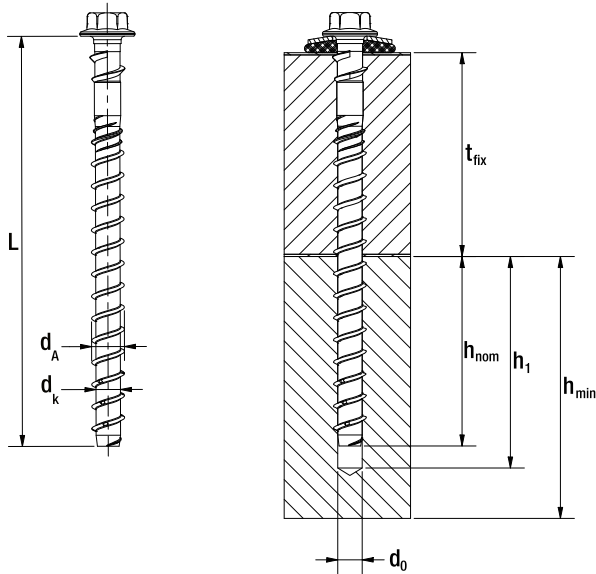
Montageablauf (Beispiel 1)



Montageablauf (Beispiel 2)



Concrete screw JC6-D-7.5xL



Anchoring substrate

- > Reinforced or non-reinforced normal weight concrete according to EN 206:1-2017
- > Strength class C20/25 to C50/60 according to EN 206:1-2017
- > Cracked or uncracked concrete

Technical data

Nominal embedment depth	$h_{nom} \geq$ [mm]	65.0
Predrilled hole in sandwich panel	d_{sw} [mm]	6.0–6.5
Drill hole diameter	d_0 [mm]	6.0
Drill bit cutting diameter	d_{cut} [mm]	6.05–6.40
Recommended drill bit cutting diameter	d_{cut} [mm]	6.15–6.40
Drill hole depth to deepest point	$h_1 \geq$ [mm]	80.0
Minimum thickness of base materials	h_{min} [mm]	100
Thread diameter	d_A [mm]	7.5
Core diameter	d_K [mm]	5.55
Material	1.4401 acc. EN 10088-1-2015 mit gehärteter Furchzone	

Characteristic load capacity

in cracked and non-cracked concrete C20/25-C50/60

Steel failure

Characteristic tension resistance	$N_{Rk,s}$ [kN]	15.7
Characteristic shear resistance	$V_{Rk,s}$ [kN]	9.6

Pull-out failure

Characteristic resistance in cracked concrete C20/25	$N_{Rk,p}$ [kN]	4.0
Characteristic resistance in non-cracked concrete C20/25	$N_{Rk,p}$ [kN]	8.0
Increasing factor for $N_{Rk,p}$	ψ_C	C25/30 1.04
		C30/37 1.07
		C35/45 1.09
		C40/50 1.12
		C45/55 1.14
		C50/60 1.16
Partial safety factor	γ_{inst} [-]	1.0
	$\gamma_{Mp}^{1)}$ [-]	1.5

¹⁾ In absence of other national regulations

Notes



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Rules of lightweight metal construction (IFBS)



Wear eye protection



Wear ear protection



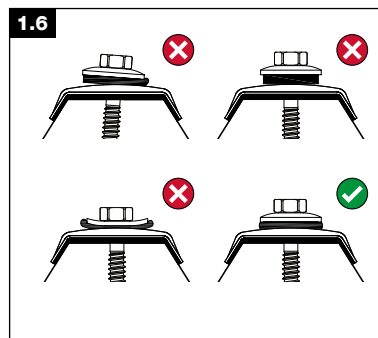
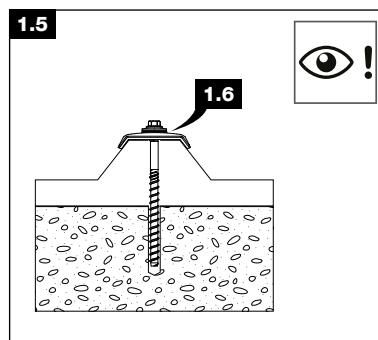
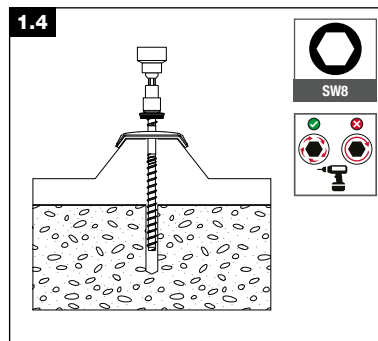
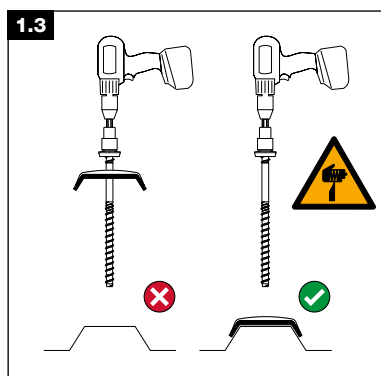
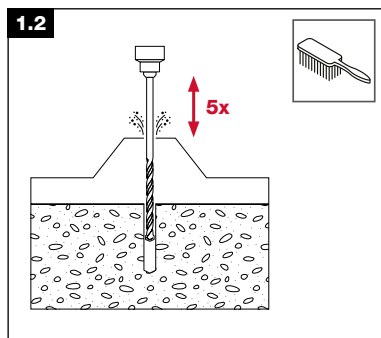
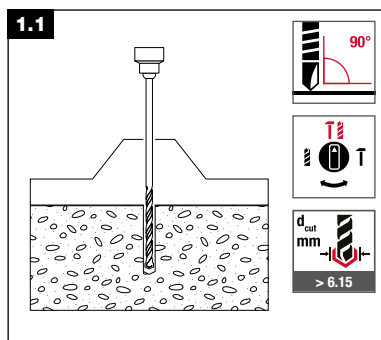
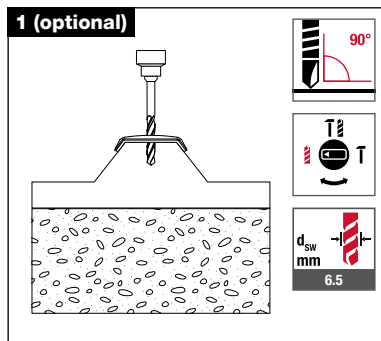
Store dry until installation



Detect reinforcement

Concrete screw JC6-D-7.5xL

Assembly process (example 1)



Assembly process (example 2)

