

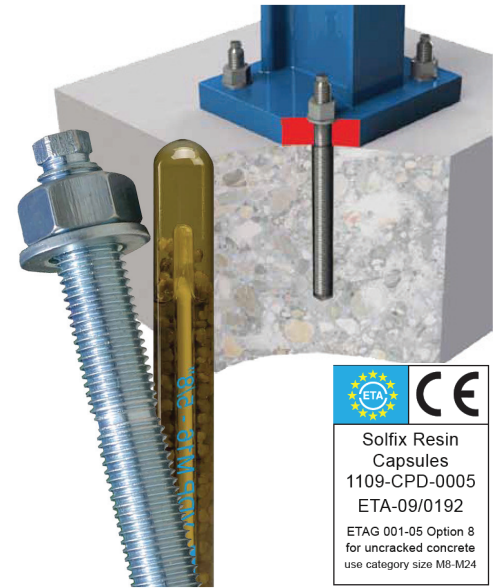
# SOLFIX RESIN CAPSULES



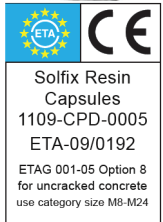
## Resin Glass Capsules

Solfix Resin Capsules are a Structural Anchoring System with ETA Approval Option 8 For Non-Cracked Concrete

- ETA approved glass capsule for non cracked concrete
- Fixing Anchor holes are drilled with either Rotary Drill Hammers or Diamond Drill Rigs.
- For Horizontal, Vertical or Overhead applications
- For use with M8 - M30 Anchor Studs Carbon Steel 5.8, 8.8 + Stainless Steel Grades



Colour	Product Code	Size
Pale Yellow	SOLFIXRESCAP	Varies



## SOLCEM - Building Chemicals & Admixtures

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### Product Description

Solfix Resin Capsules are designed specifically for applications in solid concrete and are available in the two variations, "Spin-In" OR "Hammer-In".

The resultant fixing is a bonded anchor consisting of a glass capsule and a threaded anchor rod with hexagon nut and washer of sizes M8, M10, M12, M16, M20 and M24 (for ETA Approval).

The glass capsule is placed into the hole and the anchor rod is driven by machine with simultaneous hammering and turning.

### Typical Uses

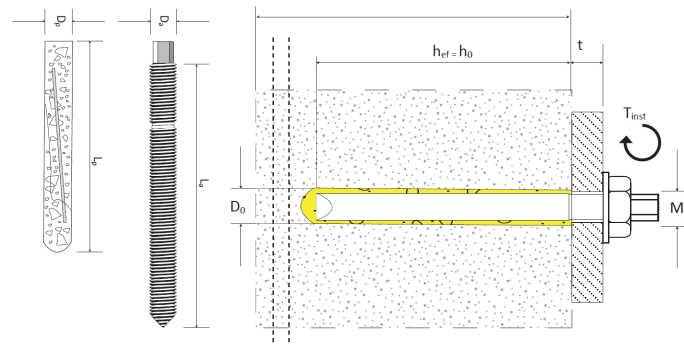
Solfix 500 is a two-part chemical anchoring resin designed to anchor threaded rods and rebar in concrete.

### Features & Benefits

- ETA approved glass capsule for non cracked concrete
- Fixing Anchor holes are drilled with Rotary Drills or Diamond Drill Rigs.
- For Horizontal, Vertical or Overhead applications
- For use with M8 - M30 Anchor Studs Carbon Steel 5.8, 8.8 + Stainless Steel
- Range of Loading 3.0kN to 60.0kN
- Concrete Quality C12/15 to C50/60 +

### Technical Data - capsule Specifications

$D_a$	$L_a$ (mm)	Capsule Type	$D_p$ (mm)	$L_p$ (mm)	$V_p$ (cc)	$V_s$ (cc/cm)
M8	110	V-E	9	80	4.0	0.4
M10	130	V-E	11	80	5.5	0.52
M12	160	V-E	13	95	9.0	0.66
M16	190	V-E	17	95	15.8	0.95
M20	260	V-E	22	175	53.0	2.4
M24	300	V-E	24	210	76.0	2.54



### Technical Data - Setting Dimensions

$D_a$	$d_0$ (mm)	$h_0$ (mm)	$d_r$ (mm)	$h_{min}$ (mm)	$t_{fix}$ (mm)	$T_{inst}$ Nm
M8	10	80	9	110	20	10
M10	12	90	12	120	30	20
M12	14	110	14	140	37	40
M16	18	125	18	160	49	80
M20	25	170	22	220	75	120
M24	28	210	26	260	67	180

### Technical Data - Typical Performance Data - Stainless Steel Studs A4

Type	Concrete Class		Unit	M8	M10	M12	M16	M20	M24
Characteristic Resistance	C25/30	$N_{um}$	kN	27.0	38.6	58.2	104.3	169.8	250.2
characteristic Shear	C25/30	$V_{um}$	kN	15.4	24.4	35.4	66.0	103.0	148.3
Design Resistance	≥ C20/25	N	kN	7.9	11.9	15.9	19.8	29.8	35.7
Design Shear	≥ C20/25	V	kN	6.0	9.2	13.3	25.2	39.4	56.8
Design Bending Moment		M	Nm	11.9	23.8	42.1	106.7	207.9	359.4
Effective Anchorage Depth		$h_{ef}$	mm	80	90	110	125	170	210
Spacing		$S_{cr,N}$	mm	140	180	220	250	340	420
Edge Distance		$C_{cr,N}$	mm	120	90	110	125	170	210
Minimum Spacing		$S_{min}$	mm	40	45	55	65	85	105
Minimum Edge Distance		$C_{min}$	mm	40	45	55	65	85	105
Minimum Thickness of Concrete		$h_{min}$	mm	110	120	140	160	220	260
Drill Hole Diameter		$d_o$	mm	10	12	14	18	25	28
Clearance Hole in Fixture		$d_r$	mm	9	12	14	18	22	26
Depth of Drill Hole		$h_o$	mm	80	90	110	125	170	210
Installation Torque		$T_{inst}$	Nm	10	20	40	80	120	180
Width Across Nut		SW	mm	13	17	19	24	30	36
Width Across Nut (Threaded Stud)		SW	mm	5	6	8	12	14	17

**Note:** Load data is taken from the Permissible Service Conditions of ETA 09/0192. Approved loads for single anchor without influence of spacing and edge distance for temperature -40°C to +80°C Total safety factor as per ETAG 001 included.

**Important Note:** Performance based on clean holes; HAMMER DRILLED - blown and then brushed with a stiff metal brush and blown again.

#### Typical Curing Times

Concrete Temperature	Dry Holes		Damp Holes	
	mins	mins	mins	mins
30°C	10	10	20	20
25°C	20	20	40	40
15°C	60	60	120	120
5°C	300	300	600	600

#### Storage & Shelf Life

This product should be stored between +5°C & +25°C.

The shelf life of this product is 24 months from date of manufacture

### Drill Hole Cleaning Accessories

#### Accessories - Blow Out pump

Blow Out Pump	drill hole Ø	body length
190mm	12-35mm	190mm
280mm	12-35mm	280mm
400mm	12-35mm	400mm



#### Accessories - Steel Brush

Steel Brush	drill hole Ø	body length
10mm Ø handle 200mm head 80mm	8 -10mm	250mm
13mm Ø handle 200mm head 80mm	12-16mm	250mm
18mm Ø handle 200mm head 80mm	18-24mm	250mm
28mm Ø handle 200mm head 80mm	28-35mm	250mm

