



Drop-in anchors

# DI-PLUS



X ANCHORS



**SYMPAFIX**<sup>®</sup>  
serious fixings

by

**ICCONS**<sup>®</sup>  
Serious Connections<sup>®</sup>

# DROP-IN ANCHORS

## OVERVIEW

- **ETA part 6** multipoint approval for redundant fixings in cracked and non-cracked concrete
- Metric internal thread, suitable for bolts and threaded rods
- Drop-in anchor without collar (DI-PLUS) enables the user to **invisibly plug** the partially countersunk anchors when dealing with temporary fixings
- Suitable for **cracked and non-cracked concrete C20/25 up to C50/60**

## APPROVALS AND TEST REPORTS



0679-CPR-1037  
ETA-14/0481  
ETAG 001  
Part 6



Cracked Concrete



Sympafix Approved

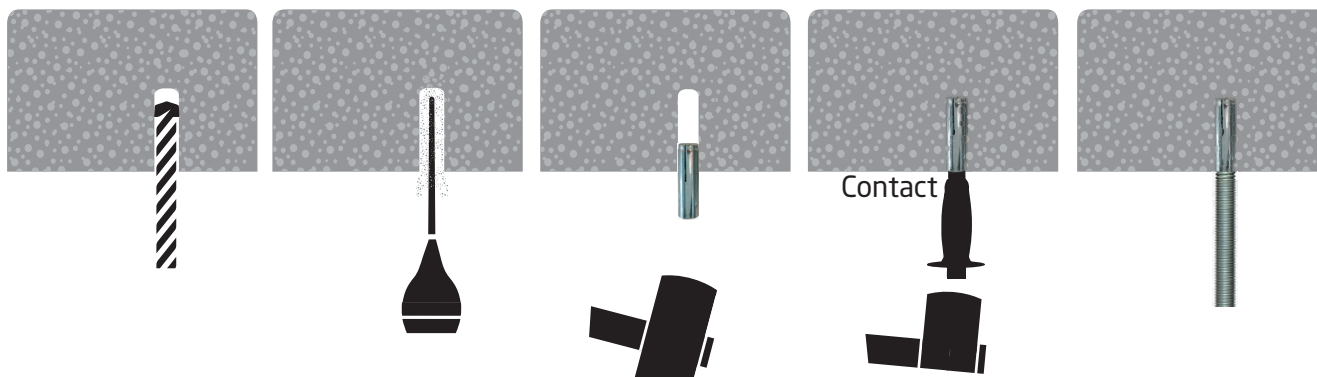


F120 Fire Rated

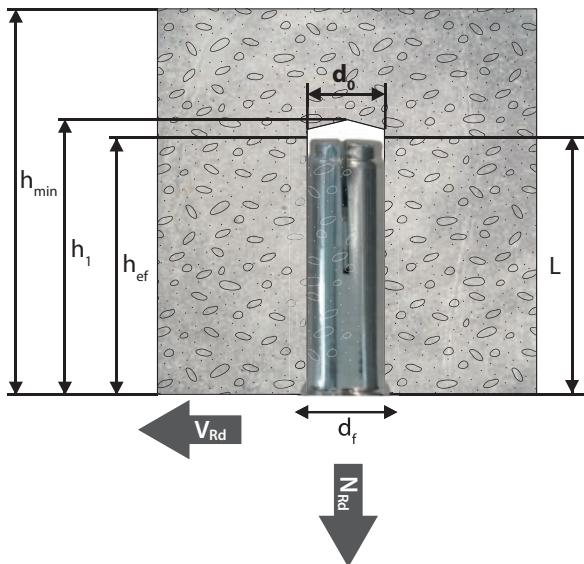


National Code Compliant

## INSTALLATION INSTRUCTIONS



## TECHNICAL DATA



- L:** anchor length
- t<sub>fix</sub>:** maximum fixture thickness
- d<sub>f</sub>:** diameter through hole fixture
- d<sub>o</sub>:** drill hole diameter
- h<sub>ef</sub>:** embedment depth
- h<sub>1</sub>:** minimum drill hole depth
- h<sub>min</sub>:** minimum member thickness
- N<sub>Rd</sub>:** design tension load
- V<sub>Rd</sub>:** design shear load

# DROP-IN ANCHORS

## Design Properties



### Drop-in anchor DI-PLUS (zinc plated)

ZINC INTERNAL



Part No.	Description.	mm	mm	M	qty	qty
<b>*DM08-A</b> (70780)	M8 x 30mm Drop-in anchor	10	32	M8	100	800
<b>DM10-A</b> (70782)	M10 x 40mm Drop-in anchor	12	42	M10	100	800
<b>DM12-A</b> (70784)	M12 x 50mm Drop-in anchor	16	52	M12	100	400

\* Lead times may apply



### Drop-in Setting Tool For use with standard non-lip Drop-In Anchors



Part No.	Description.	qty
<b>DST08</b>	Suits M8 Standard Drop-In anchors	1
<b>DST10</b>	Suits M10 Standard Drop-In anchors	1
<b>DST12</b>	Suits M12 Standard Drop-In anchors	1

### Technical / Installation Data

Type	Art.nr	Size indication	Anchor length (mm)	Diameter through hole fixture $d_f$ (mm)	Drill hole diameter $d_o$ (mm)	Embedment depth $h_{ef}$ (mm)	Minimum drill hole depth $h_1$ (mm)	Installation torque (Nm)	Minimum thread length (mm)	Minimum member thickness (mm)	Minimum spacing distance (mm)	Minimum edge distance (mm)
DI-PLUS M8	<b>70780</b>	M8x30	30	9	10	30	32	8	8	80	200	150
DI-PLUS M10	<b>70782</b>	M10x40	40	12	12	40	42	15	10	80	200	150
DI-PLUS M12	<b>70784</b>	M12x50	50	14	16	50	53	35	12	80	200	150

### Performance Data - Design Resistance

Type	Art.nr	Non-cracked concrete tension load $N_{rd}$ (kN)	Cracked concrete tension load $N_{rd}$ (kN)	Shear load $V_{rd}$ (kN)
DI-PLUS M8	<b>70780</b>	2.7	2.7	2.7
DI-PLUS M10	<b>70782</b>	1.9	1.9	1.9
DI-PLUS M12	<b>70784</b>	3.3	3.3	3.3

**Note:** Based on ETAG Part 6 multi point approval for redundant fixings in cracked and non-cracked concrete C20/25 to C50/60. Refer to ETAG 001 Part 6, Annex 1 for additional information.

### Characteristic load values in case of fire, without bending (kN)

Type	Art.nr	30 minutes	60 minutes	90 minutes	120 minutes
DI-PLUS M8	<b>70780</b>	0.37	0.33	0.26	0.18
DI-PLUS M10	<b>70782</b>	0.87	0.75	0.58	0.46
DI-PLUS M12	<b>70784</b>	1.69	1.26	1.10	0.84

**Note:** Characteristic values under fire exposure in concrete C20/25 to C50/60 in any direction without bending, design method C.