

MOPUR3



CHARACTERISTICS

- Assessed for all types of concrete, cracked, non-cracked and all concrete applications.
- Certificate of contact with drinking water (WRAS).
- Fire resistance certificate for post-installed rebar (CSTB).
- Assessed studs from M8 to M30, even M27.
- Rebar used as stud from Ø8 to Ø32.
- Post-installed rebar Ø8 to Ø32.
- Use for high loads.
- Pure Epoxy 3:1 red colored, styrene free.
- Valid for dry, wet and flooded holes.
- Use for static or quasi-static loads and C1&C2 seismic loads.
- Versions in zinc plated steel and stainless steel A2 and A4.
- Temperature range: from -40°C to +70°C (long term maximum temperature +50°C).

CERTIFICATES



APPLICATIONS

- Use in indoor and outdoor environments.
- Structural applications.
- Fixing of building substructures.
- Rebar and start rebar.
- For fixing enginery, balconies, awnings, shelving units, billboards, catenaries, safety barriers, railings, handrails, etc.
- Large metric sizes, retaining walls.

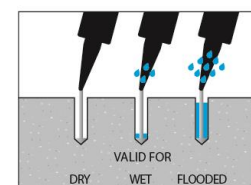
BASE MATERIAL



VALID FOR



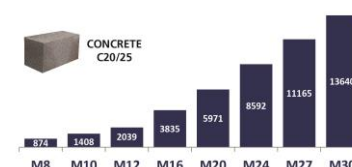
DRILL HOLE CONDITION



APPLICATION EXAMPLES



MAXIMUM RECOMMENDED LOADS [kg]



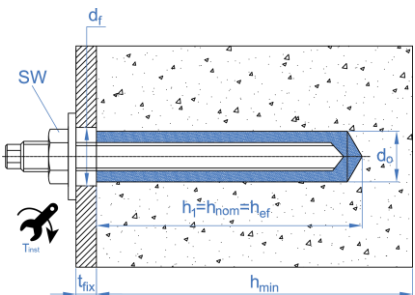
1. RANGE

ITEM	CODE	SIZE	PHOTO	COMPONENT	MATERIAL	
1	MOPUR30385 MOPUR30585	385 ml. 585 ml.		PURE EPOXY MORTAR	Pure epoxy resin. Format: cartridges of 385 and 585 ml.	12

2. ACCESSORIES

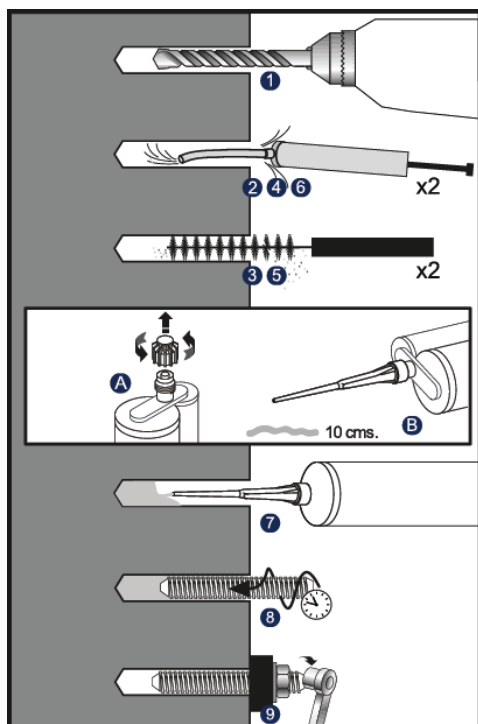
ITEM	CODE	PHOTO	COMPONENT	MATERIAL
1	MOPISP3385		APPLICATION GUNS	Gun for 385 ml cartridges
	MOPISP3585			Gun for 585 ml cartridges
2	EQ-AC EQ-A2 EQ-A4		STUD BOLTS	Threaded steel stud, class 5.8 ISO 898-1 Threaded stainless steel stud A2-70 Threaded stainless steel stud A4-70
3	MORCEPKIT		CLEANING BRUSHES	3 Cleaning brushes kit of ø14, ø20 and ø29 mm.
4	MOBOMBA		CLEANING PUMP	Pump for cleaning dust and drill hole fragments
5	MORCAPU		MIXING NOZZLE	Plastic. Helix static mixer.

3. INSTALLATION DATA - CONCRETE FIXING (SET UP PARAMETERS)

SIZE		M8	M10	M12	M16	M20	M24	M27	M30
d ₀ : nominal diameter	[mm]	10	12	14	18	22	26	30	35
d _f : fixture hole diameter ≤	[mm]	9	12	14	18	22	26	30	33
T _{ins} : torque ≤	[Nm]	10	20	40	80	150	200	240	275
Circular cleaning brush diameter		Ø20			Ø29			Ø40	
h _{ef,min}									
h _{ef} : effective depth	[mm]	60	60	70	80	90	96	108	120
h ₁ : drill hole depth	[mm]	65	65	75	85	95	101	113	
s _{cr,N} : critical spacing	[mm]	180	180	210	240	270	288	324	360
c _{cr,N} : critical edge distance	[mm]	90	90	105	120	135	144	162	180
c _{min} : minimum distance to edge	[mm]	40	40	40	40	50	50	50	50
s _{min} : minimum spacing	[mm]	40	40	40	40	50	50	50	50
h _{min} : minimum concrete thickness	[mm]	100	100	105	120	135	150	170	185
Standard stud									
h _{ef} : effective depth	[mm]	80	90	110	128	170	210	-	280
h ₁ : drill hole depth	[mm]	85	95	115	113	175	215	-	285
s _{cr,N} : critical spacing	[mm]	240	270	330	384	510	630	-	840
c _{cr,N} : critical edge distance	[mm]	120	135	165	192	255	315	-	420
c _{min} : minimum distance to edge	[mm]	40	45	55	65	85	105	-	140
s _{min} : minimum spacing	[mm]	40	45	55	65	85	105	-	140
h _{min} : minimum concrete thickness	[mm]	115	125	145	165	215	263	-	345
h _{ef,max}									
h _{ef} : effective depth	[mm]	160	200	240	320	400	480	540	600
h ₁ : drill hole depth	[mm]	165	205	245	325	405	485	545	605
s _{cr,N} : critical spacing	[mm]	480	600	720	960	1200	1440	1620	1800
c _{cr,N} : critical edge distance	[mm]	240	300	360	480	600	720	810	900
c _{min} : minimum distance to edge	[mm]	80	100	120	160	200	240	270	300
s _{min} : minimum spacing	[mm]	80	100	120	160	200	240	270	300
h _{min} : minimum concrete thickness	[mm]	195	235	275	360	445	535	600	665
Zinc plated stud code		EQAC08110	EQAC10130	EQAC12160	EQAC16190	EQAC20260	EQAC24300	---	EQAC30330
Stainless steel stud code A2 / A4		EQA208110 EQA408110	EQA210130 EQA410130	EQA212160 EQA412160	EQA216190 EQA416190	EQA220260 EQA420260	EQA224300 EQA424300	---	EQA230330 EQA430330
		- The h_{ef} depth value may be selected by the user ranging between h_{ef,min} = 8d and h_{ef,max} = 20d. Any intermediate values may be interpolated. - Critical distances are those where anchors in a group of anchors are not influenced by one another with regard to tension load effects. For smaller distances, down to minimum distances, corresponding reduction coefficients must be applied. - Standard studs are available for each measurement, as shown in the table.							

4. PRODUCT SET UP

4.1. CONCRETE SET UP



1. DRILL

Check the concrete base is compact and porosity is insignificant.

Suitable for wet, dry or flooded drill holes.

Cartridge installation temperature: $\geq 5^{\circ}\text{C}$.

Base material installation temperature: MOPUR3 $\geq +5^{\circ}\text{C}$

Use drill in hammer mode.

Drill to the specified diameter and depth values

2 - 6. BLOW AND CLEAN

Clear the drill holes completely of dust and fragments by following the procedure shown in the picture. If the drill hole is flooded, the water must be removed before mortar is injected.

A - B. OPEN CARTRIDGE

Screw the nozzle into the cartridge and place the assembly in the application gun. Squeeze on the trigger repeatedly until the mortar comes out of the nozzle in a uniform red color. Any iridescence indicates improper mixing. Always discard the first two doses of each cartridge: these are never to be used for fixing.

7. INJECT MORTAR

Insert the nozzle to the bottom of the drill hole and apply mortar: gradually remove the nozzle, ensuring there are no air bubbles. Fill the hole to $\frac{1}{2}$ and $\frac{3}{4}$ of its depth.

In the event of not fully using the cartridge, leave nozzle attached. Only change if using again and handling time has expired, remembering to discard the first two doses of mortar.

8. INSTALLATION

Introduce the stud to be installed by screwing it lightly down to the installation depth value manually; ensuring the mortar covers the stud thread. The introduction of the anchor must take place within the handling time. The mortar must seep from the top of the drill hole to ensure it is completely full and there are no gaps between the stud and the drill hole.

TEMPERATURE AND CURING TIME

TYPE	Base material temperature [$^{\circ}\text{C}$]	Handling time [min]	Curing time [hrs]
MOPUR3	+5	300	24
	+5 a +10	150	
	+10 a +15	40	18
	+15 a +20	25	12
	+20 a +25	18	8
	+25 a +30	12	6
	+30 a +35	8	4
	+35 a +40	6	2

9. APPLY TORQUE

Once the curing time has elapsed, apply torque, never exceeding the values indicated in the table.

5. STORAGE CONDITIONS

Keep the product stored in a cool, dry place, away from direct sunlight and heat sources, at an average temperature between +5 °C and +25 °C.



Shelf life of unopened cartridge: 18 months from the date of manufacture. The expiration date is indicated on the cartridge.

6. RESISTANCES

6.1 CONCRETE FIXATION

Characteristic resistances for C20/25 concrete for an isolated anchor (without considering anchor-to-anchor or anchor-to-edge distance effects) and class 5.8 studs or A4-70 stainless steel are shown in tables below.

CHARACTERISTIC RESISTANCES

CONCRETE CLASS	SIZE					M8	M10	M12	M16	M20	M24	M27	M30
NON-CRACKED CONCRETE	ZINC PLATED	Tension	$h_{ef,min} = 8d$	N_{Rk}	[kN]	<u>18,0</u>	23,4	29,5	36,1	43,0	47,4	56,6	66,3
			Standard stud	N_{Rk}	[kN]	<u>18,0</u>	<u>29,0</u>	<u>42,0</u>	73,0	111,7	153,4	--	236,1
			$h_{ef,max} = 20d$	N_{Rk}	[kN]	<u>18,0</u>	<u>29,0</u>	<u>42,0</u>	<u>79,0</u>	<u>123,0</u>	<u>177,0</u>	<u>230,0</u>	<u>281,0</u>
		Shear	$h_{ef,min} = 8d$	V_{Rk}	[kN]	<u>9,0</u>	<u>15,0</u>	<u>21,0</u>	<u>39,0</u>	<u>61,0</u>	94,8	113,1	132,5
			Standard stud	V_{Rk}	[kN]	<u>9,0</u>	<u>15,0</u>	<u>21,0</u>	<u>39,0</u>	<u>61,0</u>	<u>88,0</u>	<u>115,0</u>	<u>140,0</u>
			$h_{ef,max} = 20d$	V_{Rk}	[kN]	<u>9,0</u>	<u>15,0</u>	<u>21,0</u>	<u>39,0</u>	<u>61,0</u>	<u>88,0</u>	<u>115,0</u>	<u>140,0</u>
	STAINLESS STEEL	Tension	$h_{ef,min} = 8d$	N_{Rk}	[kN]	<u>26,0</u>	23,4	29,5	36,1	43,0	47,4	56,6	66,3
			Standard stud	N_{Rk}	[kN]	<u>26,0</u>	<u>41,0</u>	<u>59,0</u>	73,0	111,7	153,4	--	236,1
			$h_{ef,max} = 20d$	N_{Rk}	[kN]	<u>26,0</u>	<u>41,0</u>	<u>59,0</u>	<u>110,0</u>	<u>172,0</u>	<u>247,0</u>	<u>321,0</u>	<u>393,0</u>
		Shear	$h_{ef,min} = 8d$	V_{Rk}	[kN]	<u>13,0</u>	<u>20,0</u>	<u>30,0</u>	<u>55,0</u>	<u>86,0</u>	94,8	113,1	132,5
			Standard stud	V_{Rk}	[kN]	<u>13,0</u>	<u>20,0</u>	<u>30,0</u>	<u>55,0</u>	<u>86,0</u>	<u>124,0</u>	<u>161,0</u>	<u>196,0</u>
			$h_{ef,max} = 20d$	V_{Rk}	[kN]	<u>13,0</u>	<u>20,0</u>	<u>30,0</u>	<u>55,0</u>	<u>86,0</u>	<u>124,0</u>	<u>161,0</u>	<u>196,0</u>
CRACKED CONCRETE	ZINC PLATED	Tension	$h_{ef,min} = 8d$	N_{Rk}	[kN]	12,0	15,0	19,7	30,1	39,5	47,4	45,8	56,5
			Standard stud	N_{Rk}	[kN]	16,0	22,6	31,1	48,2	74,7	110,8	--	131,9
			$h_{ef,max} = 20d$	N_{Rk}	[kN]	<u>18,0</u>	<u>29,0</u>	<u>42,0</u>	<u>79,0</u>	<u>123,0</u>	<u>177,0</u>	229,0	<u>281,0</u>
		Shear	$h_{ef,min} = 8d$	V_{Rk}	[kN]	<u>9,0</u>	<u>15,0</u>	<u>21,0</u>	<u>39,0</u>	<u>61,0</u>	94,8	113,1	132,5
			Standard stud	V_{Rk}	[kN]	<u>9,0</u>	<u>15,0</u>	<u>21,0</u>	<u>39,0</u>	<u>61,0</u>	<u>88,0</u>	<u>115,0</u>	<u>140,0</u>
			$h_{ef,max} = 20d$	V_{Rk}	[kN]	<u>9,0</u>	<u>15,0</u>	<u>21,0</u>	<u>39,0</u>	<u>61,0</u>	<u>88,0</u>	<u>115,0</u>	<u>140,0</u>
	STAINLESS STEEL	Tension	$h_{ef,min} = 8d$	N_{Rk}	[kN]	12,0	15,0	19,7	30,1	39,5	47,4	45,8	56,5
			Standard stud	N_{Rk}	[kN]	16,0	22,6	31,1	48,2	74,7	110,8	--	131,9
			$h_{ef,max} = 20d$	N_{Rk}	[kN]	<u>26,0</u>	<u>41,0</u>	<u>59,0</u>	<u>110,0</u>	<u>172,0</u>	<u>247,0</u>	229,0	282,7
		Shear	$h_{ef,min} = 8d$	V_{Rk}	[kN]	<u>13,0</u>	<u>20,0</u>	<u>30,0</u>	<u>55,0</u>	<u>86,0</u>	94,8	113,1	132,5
			Standard stud	V_{Rk}	[kN]	<u>13,0</u>	<u>20,0</u>	<u>30,0</u>	<u>55,0</u>	<u>86,0</u>	<u>124,0</u>	<u>161,0</u>	<u>196,0</u>
			$h_{ef,max} = 20d$	V_{Rk}	[kN]	<u>13,0</u>	<u>20,0</u>	<u>30,0</u>	<u>55,0</u>	<u>86,0</u>	<u>124,0</u>	<u>161,0</u>	<u>196,0</u>

DESIGN RESISTANCES													
CONCRETE CLASS	SIZE					M8	M10	M12	M16	M20	M24	M27	M30
NON-CRACKED CONCRETE	ZINC PLATED	Tension	$h_{ef,min} = 8d$	N_{Rd}	[kN]	<u>12,0</u>	15,6	19,6	24,0	28,6	31,6	37,7	44,1
			Standard stud	N_{Rd}	[kN]	<u>12,0</u>	<u>19,3</u>	<u>28,0</u>	48,6	74,4	102,2	--	157,4
			$h_{ef,max} = 20d$	N_{Rd}	[kN]	<u>12,0</u>	<u>19,3</u>	<u>28,0</u>	<u>52,6</u>	<u>82,0</u>	<u>118,0</u>	<u>153,3</u>	<u>187,3</u>
		Shear	$h_{ef,min} = 8d$	V_{Rd}	[kN]	<u>7,2</u>	<u>12,0</u>	<u>16,8</u>	<u>31,2</u>	<u>48,8</u>	63,2	75,4	88,3
			Standard stud	V_{Rd}	[kN]	<u>7,2</u>	<u>12,0</u>	<u>16,8</u>	<u>31,2</u>	<u>48,8</u>	<u>70,4</u>	<u>92,0</u>	<u>112,0</u>
			$h_{ef,max} = 20d$	V_{Rd}	[kN]	<u>7,2</u>	<u>12,0</u>	<u>16,8</u>	<u>31,2</u>	<u>48,8</u>	<u>70,4</u>	<u>92,0</u>	<u>112,0</u>
	STAINLESS STEEL	Tension	$h_{ef,min} = 8d$	N_{Rd}	[kN]	<u>13,9</u>	15,6	19,6	24,0	28,6	31,6	37,7	44,1
			Standard stud	N_{Rd}	[kN]	<u>13,9</u>	<u>21,9</u>	<u>31,5</u>	48,6	74,4	102,2	--	157,4
			$h_{ef,max} = 20d$	N_{Rd}	[kN]	<u>13,9</u>	<u>21,9</u>	<u>31,5</u>	<u>58,8</u>	<u>91,9</u>	<u>132,0</u>	<u>171,6</u>	<u>210,1</u>
		Shear	$h_{ef,min} = 8d$	V_{Rd}	[kN]	<u>8,3</u>	<u>12,8</u>	<u>19,2</u>	<u>35,2</u>	<u>55,1</u>	63,2	75,4	88,3
			Standard stud	V_{Rd}	[kN]	<u>8,3</u>	<u>12,8</u>	<u>19,2</u>	<u>35,2</u>	<u>55,1</u>	<u>79,4</u>	<u>103,2</u>	<u>125,6</u>
			$h_{ef,max} = 20d$	V_{Rd}	[kN]	<u>8,3</u>	<u>12,8</u>	<u>19,2</u>	<u>35,2</u>	<u>55,1</u>	<u>79,4</u>	<u>103,2</u>	<u>125,6</u>
CRACKED CONCRETE	ZINC PLATED	Tension	$h_{ef,min} = 8d$	N_{Rd}	[kN]	8,0	10,0	13,1	20,1	26,3	31,6	30,5	37,7
			Standard stud	N_{Rd}	[kN]	10,7	15,0	20,7	32,1	49,8	73,8	--	87,9
			$h_{ef,max} = 20d$	N_{Rd}	[kN]	<u>12,0</u>	<u>19,3</u>	<u>28,0</u>	<u>52,6</u>	<u>82,0</u>	<u>118,0</u>	152,6	<u>187,3</u>
		Shear	$h_{ef,min} = 8d$	V_{Rd}	[kN]	<u>7,2</u>	<u>12,0</u>	<u>16,8</u>	<u>31,2</u>	<u>48,8</u>	63,2	75,4	88,3
			Standard stud	V_{Rd}	[kN]	<u>7,2</u>	<u>12,0</u>	<u>16,8</u>	<u>31,2</u>	<u>48,8</u>	<u>70,4</u>	<u>92,0</u>	<u>112,0</u>
			$h_{ef,max} = 20d$	V_{Rd}	[kN]	<u>7,2</u>	<u>12,0</u>	<u>16,8</u>	<u>31,2</u>	<u>48,8</u>	<u>70,4</u>	<u>92,0</u>	<u>112,0</u>
	STAINLESS STEEL	Tension	$h_{ef,min} = 8d$	N_{Rd}	[kN]	8,04	10,0	13,1	20,1	26,3	31,6	30,5	37,7
			Standard stud	N_{Rd}	[kN]	10,7	15,0	20,7	32,1	49,8	73,8	--	87,9
			$h_{ef,max} = 20d$	N_{Rd}	[kN]	<u>13,9</u>	<u>21,9</u>	<u>31,5</u>	<u>58,8</u>	<u>91,9</u>	<u>132,0</u>	152,6	188,5
		Shear	$h_{ef,min} = 8d$	V_{Rd}	[kN]	<u>8,3</u>	<u>12,8</u>	<u>19,2</u>	<u>35,2</u>	<u>55,1</u>	63,2	75,4	88,3
			Standard stud	V_{Rd}	[kN]	<u>8,3</u>	<u>12,8</u>	<u>19,2</u>	<u>35,2</u>	<u>55,1</u>	<u>79,4</u>	<u>103,2</u>	<u>125,6</u>
			$h_{ef,max} = 20d$	V_{Rd}	[kN]	<u>8,3</u>	<u>12,8</u>	<u>19,2</u>	<u>35,2</u>	<u>55,1</u>	<u>79,4</u>	<u>103,2</u>	<u>125,6</u>

MAXIMUM LOADS RECOMMENDED (when $\gamma_f = 1.4$)

CONCRETE CLASS	SIZE					M8	M10	M12	M16	M20	M24	M27	M30
NON-CRACKED CONCRETE	ZINC PLATED	Tension	$h_{ef,min} = 8d$	N_{rec}	[kN]	<u>8,5</u>	11,1	14,0	17,1	20,4	22,5	26,9	31,5
			Standard stud	N_{rec}	[kN]	<u>8,5</u>	<u>13,8</u>	<u>20,0</u>	34,7	53,2	73,0	--	112,4
			$h_{ef,max} = 20d$	N_{rec}	[kN]	<u>8,5</u>	<u>13,8</u>	<u>20,0</u>	<u>37,6</u>	<u>58,5</u>	<u>84,2</u>	<u>109,5</u>	<u>133,8</u>
		Shear	$h_{ef,min} = 8d$	V_{rec}	[kN]	<u>5,1</u>	<u>8,5</u>	<u>12,0</u>	<u>22,2</u>	<u>34,8</u>	45,1	53,8	63,1
			Standard stud	V_{rec}	[kN]	<u>5,1</u>	<u>8,5</u>	<u>12,0</u>	<u>22,2</u>	<u>34,8</u>	<u>50,2</u>	<u>65,7</u>	<u>80,0</u>
			$h_{ef,max} = 20d$	V_{rec}	[kN]	<u>5,1</u>	<u>8,5</u>	<u>12,0</u>	<u>22,2</u>	<u>34,8</u>	<u>50,2</u>	<u>65,7</u>	<u>80,0</u>
	STAINLESS STEEL	Tension	$h_{ef,min} = 8d$	N_{rec}	[kN]	<u>9,9</u>	11,1	14,0	17,1	20,4	22,5	26,9	31,5
			Standard stud	N_{rec}	[kN]	<u>9,9</u>	<u>15,6</u>	<u>22,5</u>	34,7	53,2	73,0	--	112,4
			$h_{ef,max} = 20d$	N_{rec}	[kN]	<u>9,9</u>	<u>15,6</u>	<u>22,5</u>	<u>42,0</u>	<u>65,7</u>	<u>94,3</u>	<u>122,6</u>	<u>150,1</u>
		Shear	$h_{ef,min} = 8d$	V_{rec}	[kN]	<u>5,9</u>	<u>9,1</u>	<u>13,7</u>	<u>25,1</u>	<u>39,3</u>	45,1	53,8	63,1
			Standard stud	V_{rec}	[kN]	<u>5,9</u>	<u>9,1</u>	<u>13,7</u>	<u>25,1</u>	<u>39,3</u>	<u>56,7</u>	<u>73,7</u>	<u>89,7</u>
			$h_{ef,max} = 20d$	V_{rec}	[kN]	<u>5,9</u>	<u>9,1</u>	<u>13,7</u>	<u>25,1</u>	<u>39,3</u>	<u>56,7</u>	<u>73,7</u>	<u>89,7</u>
CRACKED CONCRETE	ZINC PLATED	Tension	$h_{ef,min} = 8d$	N_{rec}	[kN]	5,7	7,1	9,4	14,3	18,8	22,5	21,8	26,9
			Standard stud	N_{rec}	[kN]	7,6	10,7	14,8	22,9	35,6	52,7	--	62,8
			$h_{ef,max} = 20d$	N_{rec}	[kN]	<u>8,5</u>	<u>13,8</u>	<u>20,0</u>	<u>37,6</u>	<u>58,5</u>	<u>84,2</u>	109,0	<u>133,8</u>
		Shear	$h_{ef,min} = 8d$	V_{rec}	[kN]	<u>5,1</u>	<u>8,5</u>	<u>12,0</u>	<u>22,2</u>	<u>34,8</u>	45,1	53,8	63,1
			Standard stud	V_{rec}	[kN]	<u>5,1</u>	<u>8,5</u>	<u>12,0</u>	<u>22,2</u>	<u>34,8</u>	<u>50,2</u>	<u>65,7</u>	<u>80,0</u>
			$h_{ef,max} = 20d$	V_{rec}	[kN]	<u>5,1</u>	<u>8,5</u>	<u>12,0</u>	<u>22,2</u>	<u>34,8</u>	<u>50,2</u>	<u>65,7</u>	<u>80,0</u>
	STAINLESS STEEL	Tension	$h_{ef,min} = 8d$	N_{rec}	[kN]	5,7	7,1	9,4	14,3	18,8	22,5	21,8	26,9
			Standard stud	N_{rec}	[kN]	7,6	10,7	14,8	22,9	35,6	52,7	--	62,8
			$h_{ef,max} = 20d$	N_{rec}	[kN]	<u>9,9</u>	<u>15,6</u>	<u>22,5</u>	<u>42,0</u>	<u>65,7</u>	<u>94,3</u>	109,0	134,6
		Shear	$h_{ef,min} = 8d$	V_{rec}	[kN]	<u>5,9</u>	<u>9,1</u>	<u>13,7</u>	<u>25,1</u>	<u>39,3</u>	45,1	53,8	63,1
			Standard stud	V_{rec}	[kN]	<u>5,9</u>	<u>9,1</u>	<u>13,7</u>	<u>25,1</u>	<u>39,3</u>	<u>56,7</u>	<u>73,7</u>	<u>89,7</u>
			$h_{ef,max} = 20d$	V_{rec}	[kN]	<u>5,9</u>	<u>9,1</u>	<u>13,7</u>	<u>25,1</u>	<u>39,3</u>	<u>56,7</u>	<u>73,7</u>	<u>89,7</u>

1 kN $\approx$ 100 kg

The italic font underlined values indicate steel failure, the bold values indicate concrete failure and the rest indicates pull-out failure.

COEFFICIENTS FOR TENSION LOADS IN PULL-OUT FAILURE IN HIGH-RESISTANCE CONCRETE TYPES

CONCRETE COEFFICIENT	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
Ψ_c (Non-cracked)	1,02	1,04	1,06	1,07	1,08	1,09
Ψ_c (Cracked)						

7. OFFICIAL DOCUMENTATION

The following documents are available through our Sales Department or on our official website: www.indexfix.com:

- MOPUR3 Safety Data Sheet.
- European Technical Assessment ETA 17/0659 for use in cracked and non-cracked concrete according to ETAG 001 Guide, option 1, for M8 to M30.
- European Technical Approval ETA 17/0658 for the installation of post-installed rebar with diameters from 8 to 32 mm according to technical report TR023.
- Classified A+ according to French Regulation DEVL11044875A relative to the emission of volatile pollutants for indoor use.
- Certification AVCP 1020-CPR-090-039159 for use in concrete.
- Certification AVCP 1020-CPD-090-039161 for post-installed rebar.
- WRAS certificate - 1506532 of material admitted for use in contact with drinking water.
- CSTB certificate (MRF 26072903 _ SP0363-1) of 14/12/2017 of the material's behavior in contact with fire for post-installed rebar connections.
- Declaration of Performance DoP MOPUR3.
- INDEXcal anchor calculation software.
- INDEXmor cartridge calculation needs software.