



Chemical anchor for use in concrete and masonry. Specially formulated for light or medium duty fixing into hollow or solid base materials.



[EN-ETA-13/0415](#), [UK-DoP-e13/0415](#), [FDS-POLYGP\(1.1\)UK](#)

FEATURES



Material

- Styrene free polyester
- Use with Simpson Strong-Tie threaded rod (LMAS) : galvanised steel and stainless A4-70

Benefits

- Fast curing.
- Non-flammable.
- Low odour.
- Colour changes when cured.



APPLICATIONS

Header member

Hollow or solid masonry.

For Use With

- Blinds
- Hinges
- Air conditioners
- Satellite Dishes
- Boilers

TECHNICAL DATA

Item Codes

References	Color	Content [ml]	Weight [kg]	Packaging [pcs]
POLY-GP380-FR*	Beige	380	0.9	12
Poly GP + LMAS M8*	-	-	-	-
Poly GP + LMAS M10*	-	-	-	-
Poly GP + LMAS M12*	-	-	-	-

Two nozzles are supplied with each cartridge. Downloadable Safety Data Sheet available from www.strongtie.eu

Performance Values

References	Tension [Rds,N] [kN]				Shear [Rds,V] [kN]			
	Solid Brick	Autoclaved aerated concrete blocks	Hollow Brick	Hollow concrete block	Solid Brick	Autoclaved aerated concrete blocks	Hollow Brick	Hollow concrete block
Poly GP + LMAS M8*	0.72	0.26	0.43	0.26	0.72	0.26	0.43	0.26
POLY-GP380-FR*	-	-	-	-	-	-	-	-
Poly GP + LMAS M10*	0.72	0.35	0.43	0.35	0.72	0.35	0.43	0.35
Poly GP + LMAS M12*	0.72	0.35	0.57	0.35	0.72	0.35	0.57	0.35

Performance values are calculated from published data characteristic values in the ETA on which partial safety factors from ETA and a partial coefficient = 1.4 yf actions are applied. Service charges include the sealing position in the holder and is adhered to the method of installation. For hollow brackets unknown resistance, site of trials are needed (in accordance with ICASA recommendations for use by construction professionals for the construction of ankles tests on site).

Design capacities - single anchor

References	Design capacities								
	Carbon or stainless steel								
	Tension - N_{Rd} [kN]				Shear - V_{rec} [kN]				Bending moment - MRd
Solid brick	Hollow brick	Hollow concrete block	Aerated concrete block	Solid brick	Hollow brick	Hollow concrete block	Aerated concrete block		
Poly GP + LMAS M8*	1	0.6	0.6	0.4	1	0.6	0.6	0.4	16
POLY-GP380-FR*	-	-	-	-	-	-	-	-	-
Poly GP + LMAS M10*	1	0.6	0.8	0.5	1	0.6	0.8	0.5	31.2
Poly GP + LMAS M12*	1	0.8	0.8	0.5	1	0.8	0.8	0.5	54.4

The design capacities have been calculated using the partial safety factors for resistances stated in ETA-approval(s). Design of anchoring must comply with ETAG029 " Design of Bonded Anchors"

Recommended capacities - single anchor

References	Recommended capacities								Bending moment - M_{Rd}
	Carbon or stainless steel								
	Tension - N_{rec} [kN]				Shear - V_{Rd} [kN]				
	Solid brick	Hollow brick	Hollow concrete block	Aerated concrete block	Solid brick	Hollow brick	Hollow concrete block	Aerated concrete block	
Poly GP + LMAS M8*	0.7	0.4	0.4	0.3	0.7	0.4	0.4	0.3	11.4
POLY-GP380-FR*	-	-	-	-	-	-	-	-	-
Poly GP + LMAS M10*	0.7	0.4	0.6	0.3	0.7	0.4	0.6	0.3	22.3
Poly GP + LMAS M12*	0.7	0.6	0.6	0.3	0.7	0.6	0.6	0.3	41.8

The design capacities have been calculated using the partial safety factors for resistances stated in ETA-approval(s), and additional 1.4 safety factor. Design of anchoring must comply with ETAG029 " Design of Bonded Anchors"

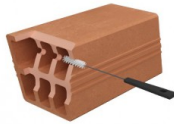
INSTALLATION

Curing Schedule

Temp of Support	-5°C	0°C	5°C	10°C	15°C	20°C	30°C
Working Time	25min	15min	12min	8min	7min	4min	2min
Curing Time	4h	3h	2h30	1h15	55min	30min	20min



Drill.



Brush.



Insert sieve.



Inject the resin.



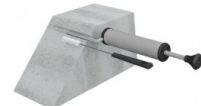
Insert the rod, turning slowly.



Once set, full load capacity is reached.



Drill.



Remove dust by brushing and blowing,



Fill the hole to half or two thirds, Withdrawing the nozzles with each pump.



Insert the rod, turning slowly.



Once set, full load capacity is reached.

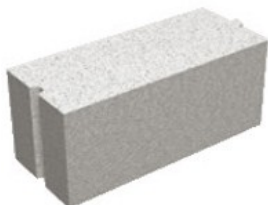
Solid Brick Installation



References	Ø drilling diameter [d0] [mm]	Maximum diameter of hole in the fixture [df] [mm]	Depth of the drilling hole [h1] [mm]	Wrench Size [Sw]	Installation Torque [Tinst] [Nm]	Depth of the drilling hole [hef] [mm]	Characteristic spacing - S _{cr,N} [mm]	Minimum spacing - S _{min} [mm]	Characteristic edge distance - C _{cr,N} [mm]	Minimum edge distance - C _{min} [mm]
Poly GP + LMAS M8*	10	9	85	13	4	80	160	50	80	50
POLY-GP380-FR*	-	-	-	-	-	-	-	-	-	-
Poly GP + LMAS M10*	12	12	85	15	6	80	200	50	100	50

References	Ø drilling diameter [d0] [mm]	Maximum diameter of hole in the fixture [df] [mm]	Depth of the drilling hole [h1] [mm]	Wrench Size [Sw]	Installation Torque [Tinst] [Nm]	Depth of the drilling hole [hef] [mm]	Characteristic spacing - S _{cr,N} [mm]	Minimum spacing - S _{min} [mm]	Characteristic edge distance - C _{cr,N} [mm]	Minimum edge distance - C _{min} [mm]
Poly GP + LMAS M12*	14	14	85	18	8	80	240	50	120	50

Cellular Concrete



References	Ø drilling diameter [d0] [mm]	Maximum diameter of hole in the fixture [df] [mm]	Depth of the drilling hole [h1] [mm]	Wrench Size [Sw]	Installation Torque [Tinst] [Nm]	Depth of the drilling hole [hef] [mm]	Characteristic spacing - S _{cr,N} [mm]	Minimum spacing - S _{min} [mm]	Characteristic edge distance - C _{cr,N} [mm]	Minimum edge distance - C _{min} [mm]
Poly GP + LMAS M8*	10	9	85	13	2	80	160	50	80	50
POLY-GP380-FR*	-	-	-	-	-	-	-	-	-	-
Poly GP + LMAS M10*	12	12	85	15	3	80	200	50	100	50
Poly GP + LMAS M12*	14	14	85	18	5	80	240	50	120	50

Foundation Brick



References	Ø drilling diameter [d0] [mm]	Size of the Sieve	Maximum diameter of hole in the fixture [df] [mm]	Depth of the drilling hole [h1] [mm]	Wrench Size [Sw]	Installation Torque [Tinst] [Nm]	Depth of the drilling hole [hef] [mm]	Characteristic spacing - S _{cr,N} [mm]	Minimum spacing - S _{min} [mm]	Characteristic edge distance - C _{cr,N} [mm]	Minimum edge distance - C _{min} [mm]
Poly GP + LMAS M8*	16	16x85 ou 16x130	9	135	13	4	130	500	100	250	100
POLY-GP380-FR*	-	-	-	-	-	-	-	-	-	-	-
Poly GP + LMAS M10*	16	16x85 ou 16x130	12	135	15	6	130	500	100	250	100
Poly GP + LMAS M12*	16	16x85 ou 16x130	14	135	18	6	130	500	100	250	100

Hollow Cinderblock



References	Ø drilling diameter [d0] [mm]	Size of the Sieve	Maximum diameter of hole in the fixture [df] [mm]	Depth of the drilling hole [h1] [mm]	Wrench Size [Sw]	Installation Torque [Tinst] [Nm]	Depth of the drilling hole [hef] [mm]	Characteristic spacing - S _{cr,N} [mm]	Minimum spacing - S _{min} [mm]	Characteristic edge distance - C _{cr,N} [mm]	Minimum edge distance - C _{min} [mm]
Poly GP + LMAS M8*	16	16x130	9	135	13	4	130	500	100	250	100
POLY-GP380-FR*	-	-	-	-	-	-	-	-	-	-	-
Poly GP + LMAS M10*	16	16x130	12	135	15	6	130	500	100	250	100
Poly GP + LMAS M12*	16	16x130	14	135	18	6	130	500	100	250	100