

POLY-GPG General Purpose Resin Mortar

Chemical anchor for use in concrete and masonry. Specially formulated for light or medium duty fixing into hollow or solid base materials. It can be used indoor (COV A+) and can be thrown with standard waste

Ominaisuudet

Material

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

Benefits

- Peeler cartridge: quick and simple use
- Hazardless components, styren free and odorless,
- Can be stock with non-flammable goods,
- The cartridge can be thrown (used or not) with standard goods
- Exists in several colors: beige, grey and white.

Sovellus

Suitable on

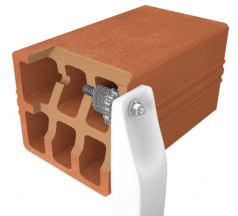
- Brick.
- Hollow or solid masonry..
- Cellular concrete

When to use

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



Fixation d'une rampe d'escalier



Fixation d'un store

POLY-GPG
General Purpose Resin Mortar

Technical Data

Références

Table "Références" cannot be displayed : no references available.

Design resistance – Tension – NRd [kN] – Carbon steel 5.8

| Tuotenro | Design resistance – NRd – Carbon steel 5.8 [kN] | | | | | | | |
|---------------------|---|--------|--------|--------|-----------------------|--------|--------|--------|
| | Non-cracked concrete | | | | | | | |
| | h _{ef} = 8d | | | | h _{ef} = 12d | | | |
| | C20/25 | C30/37 | C40/50 | C50/60 | C20/25 | C30/37 | C40/50 | C50/60 |
| POLY-GPG + LMAS M8 | 6.3 | 6.3 | 6.3 | 6.3 | 9.4 | 9.4 | 9.4 | 9.4 |
| POLY-GPG + LMAS M10 | 9.8 | 9.8 | 9.8 | 9.8 | 14.7 | 14.7 | 14.7 | 14.7 |
| POLY-GPG + LMAS M12 | 13.1 | 13.1 | 13.1 | 13.1 | 19.6 | 19.6 | 19.6 | 19.6 |
| POLY-GPG + LMAS M16 | 19.9 | 19.9 | 19.9 | 19.9 | 29.9 | 29.9 | 29.9 | 29.9 |
| POLY-GPG + LMAS M20 | 28.7 | 28.7 | 28.7 | 28.7 | 43.1 | 43.1 | 43.1 | 43.1 |
| POLY-GPG + LMAS M24 | 37.9 | 37.9 | 37.9 | 37.9 | 56.8 | 56.8 | 56.8 | 56.8 |

Concrete :

1. The design loads have been calculated using the partial safety factors for resistances stated in ETA-approval(s). The loading figures are valid for unreinforced concrete and reinforced concrete with a rebar spacing $s \geq 15$ cm (any diameter) or with a rebar spacing $s \geq 10$ cm, if the rebar diameter is 10mm or smaller.
2. The figures for shear are based on a single anchor without influence of concrete edges. For anchorages close to edges ($c \leq \max [10 h_{ef}; 60d]$) the concrete edge failure shall be checked per ETAG 001, Annex C, design method A.
3. Concrete is considered non-cracked when the tensile stress within the concrete is $\sigma_L + \sigma_R \leq 0$. In the absence of detailed verification $\sigma_R = 3$ N/mm² can be assumed (σ_L equals the tensile stress within the concrete induced by external loads, anchors loads included).

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Design resistance – Tension – N_{Rd} [kN] – Stainless steel A4-70

| Tuotenro | Design resistance – N_{Rd} – Stainless steel A4-70 [kN] | | | | | | | |
|---------------------|---|--------|--------|--------|----------------|--------|--------|--------|
| | Non-cracked concrete | | | | | | | |
| | $h_{ef} = 8d$ | | | | $h_{ef} = 12d$ | | | |
| | C20/25 | C30/37 | C40/50 | C50/60 | C20/25 | C30/37 | C40/50 | C50/60 |
| POLY-GPG + LMAS M8 | 6.3 | 6.3 | 6.3 | 6.3 | 9.4 | 9.4 | 9.4 | 9.4 |
| POLY-GPG + LMAS M10 | 9.8 | 9.8 | 9.8 | 9.8 | 14.7 | 14.7 | 14.7 | 14.7 |
| POLY-GPG + LMAS M12 | 13.1 | 13.1 | 13.1 | 13.1 | 19.6 | 19.6 | 19.6 | 19.6 |
| POLY-GPG + LMAS M16 | 19.9 | 19.9 | 19.9 | 19.9 | 29.9 | 29.9 | 29.9 | 29.9 |
| POLY-GPG + LMAS M20 | 28.7 | 28.7 | 28.7 | 28.7 | 43.1 | 43.1 | 43.1 | 43.1 |
| POLY-GPG + LMAS M24 | 37.9 | 37.9 | 37.9 | 37.9 | 56.8 | 56.8 | 56.8 | 56.8 |

Concrete :

1. The design loads have been calculated using the partial safety factors for resistances stated in ETA-approval(s). The loading figures are valid for unreinforced concrete and reinforced concrete with a rebar spacing $s \geq 15$ cm (any diameter) or with a rebar spacing $s \geq 10$ cm, if the rebar diameter is 10mm or smaller.
2. The figures for shear are based on a single anchor without influence of concrete edges. For anchorages close to edges ($c \leq \max [10 h_{ef}; 60d]$) the concrete edge failure shall be checked per ETAG 001, Annex C, design method A.
3. Concrete is considered non-cracked when the tensile stress within the concrete is $\sigma_L + \sigma_R \leq 0$. In the absence of detailed verification $\sigma_R = 3$ N/mm² can be assumed (σ_L equals the tensile stress within the concrete induced by external loads, anchors loads included).

Design resistance – Shear – V_{Rd} [kN] – Carbon steel 5.8

| Tuotenro | Design resistance – V_{Rd} – Carbon steel 5.8 [kN] | | | | | | | |
|---------------------|--|--------|--------|--------|----------------|--------|--------|--------|
| | Non-cracked concrete | | | | | | | |
| | $h_{ef} = 8d$ | | | | $h_{ef} = 12d$ | | | |
| | C20/25 | C30/37 | C40/50 | C50/60 | C20/25 | C30/37 | C40/50 | C50/60 |
| POLY-GPG + LMAS M8 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| POLY-GPG + LMAS M10 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| POLY-GPG + LMAS M12 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 |
| POLY-GPG + LMAS M16 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 |
| POLY-GPG + LMAS M20 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 |
| POLY-GPG + LMAS M24 | 70.4 | 70.4 | 70.4 | 70.4 | 70.4 | 70.4 | 70.4 | 70.4 |

Concrete :

1. The design loads have been calculated using the partial safety factors for resistances stated in ETA-approval(s). The loading figures are valid for unreinforced concrete and reinforced concrete with a rebar spacing $s \geq 15$ cm (any diameter) or with a rebar spacing $s \geq 10$ cm, if the rebar diameter is 10mm or smaller.
2. The figures for shear are based on a single anchor without influence of concrete edges. For anchorages close to edges ($c \leq \max [10 h_{ef}; 60d]$) the concrete edge failure shall be checked per ETAG 001, Annex C, design method A.
3. Concrete is considered non-cracked when the tensile stress within the concrete is $\sigma_L + \sigma_R \leq 0$. In the absence of detailed verification $\sigma_R = 3$ N/mm² can be assumed (σ_L equals the tensile stress within the concrete induced by external loads, anchors loads included).

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Design resistance – Shear – V_{Rd} [kN] – Stainless steel A4-70

| Tuotenumero | Design resistance – V_{Rd} – Stainless steel A4-70 [kN] | | | | | | | |
|---------------------|---|--------|--------|--------|----------------|--------|--------|--------|
| | Non-cracked concrete | | | | | | | |
| | $h_{ef} = 8d$ | | | | $h_{ef} = 12d$ | | | |
| | C20/25 | C30/37 | C40/50 | C50/60 | C20/25 | C30/37 | C40/50 | C50/60 |
| POLY-GPG + LMAS M8 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 |
| POLY-GPG + LMAS M10 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 |
| POLY-GPG + LMAS M12 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 |
| POLY-GPG + LMAS M16 | 35.3 | 35.3 | 35.3 | 35.3 | 35.3 | 35.3 | 35.3 | 35.3 |
| POLY-GPG + LMAS M20 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 |
| POLY-GPG + LMAS M24 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 |

Concrete :

1. The design loads have been calculated using the partial safety factors for resistances stated in ETA-approval(s). The loading figures are valid for unreinforced concrete and reinforced concrete with a rebar spacing $s \geq 15$ cm (any diameter) or with a rebar spacing $s \geq 10$ cm, if the rebar diameter is 10mm or smaller.
2. The figures for shear are based on a single anchor without influence of concrete edges. For anchorages close to edges ($c \leq \max [10 h_{ef}; 60d]$) the concrete edge failure shall be checked per ETAG 001, Annex C, design method A.
3. Concrete is considered non-cracked when the tensile stress within the concrete is $\sigma_L + \sigma_R \leq 0$. In the absence of detailed verification $\sigma_R = 3$ N/mm² can be assumed (σ_L equals the tensile stress within the concrete induced by external loads, anchors loads included).

Design resistance – Bending moment – M_{Rd} [Nm] – Concrete

| Tuotenumero | Design resistance – Bending moment – M_{Rd} - Concrete [Nm] | |
|---------------------|---|-----------------------|
| | Carbon steel 5.8 | Stainless steel A4-70 |
| POLY-GPG + LMAS M8 | 15.2 | 16.7 |
| POLY-GPG + LMAS M10 | 29.6 | 33.3 |
| POLY-GPG + LMAS M12 | 52 | 60.9 |
| POLY-GPG + LMAS M16 | 132.8 | 148.7 |
| POLY-GPG + LMAS M20 | 259.2 | 291 |
| POLY-GPG + LMAS M24 | 448 | 502.6 |

Concrete :

1. The design loads have been calculated using the partial safety factors for resistances stated in ETA-approval(s). The loading figures are valid for unreinforced concrete and reinforced concrete with a rebar spacing $s \geq 15$ cm (any diameter) or with a rebar spacing $s \geq 10$ cm, if the rebar diameter is 10mm or smaller.
2. The figures for shear are based on a single anchor without influence of concrete edges. For anchorages close to edges ($c \leq \max [10 h_{ef}; 60d]$) the concrete edge failure shall be checked per ETAG 001, Annex C, design method A.
3. Concrete is considered non-cracked when the tensile stress within the concrete is $\sigma_L + \sigma_R \leq 0$. In the absence of detailed verification $\sigma_R = 3$ N/mm² can be assumed (σ_L equals the tensile stress within the concrete induced by external loads, anchors loads included).

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Design resistance – hef = 80 mm (\leq M8) or 85 mm (\geq M10) – Carbon steel \geq 4.6 /
 Stainless steel \geq A2-70

| Tuotenro | Design resistance – Carbon steel \geq 4.6 / stainless steel \geq A2-70 | | | |
|---------------------|--|----------------|-----------------------|----------------|
| | hef = 80 mm (\leq M8) or 85 mm (\geq M10) | | | |
| | Tension - N_{Rd} [kN] | | Shear - V_{Rd} [kN] | |
| | Solid Clay Masonry | Hollow Masonry | Solid Clay Masonry | Hollow Masonry |
| POLY-GPG + LMAS M8 | 1.6 | 0.3 | 0.8 | 0.6 |
| POLY-GPG + LMAS M10 | 2 | 0.6 | 2.4 | 0.6 |
| POLY-GPG + LMAS M12 | 2 | 0.6 | 2.4 | 0.6 |
| POLY-GPG + LMAS M16 | - | - | - | - |
| POLY-GPG + LMAS M20 | - | - | - | - |
| POLY-GPG + LMAS M24 | - | - | - | - |

Masonry :

| | Compressive strength f_b [N/mm ²] | Bulk density ρ [kg/m ³] |
|--------------------|---|--|
| Solid clay masonry | \geq 18 | \geq 1600 |
| Hollow masonry | \geq 6 | \geq 900 |

1. The design resistances have been calculated using the partial safety factors for resistances stated in ETA-approval(s).
2. The recommended loads have been calculated using the partial safety factors for resistances stated in ETA-approval(s) and with a partial safety factor for actions of $\gamma_F=1.4$.
3. For combined tension and shear loads or anchor groups and/or in case of edge influence, a calculation acc. TR 054, design method A shall be performed. For details see ETA - assessment(s)
4. Temperature range: -40°C/+40°C (T_{mlp} = +24°C)
5. Coefficient factor β for in situ tests acc. ETAG 029 see ETA-19/XXXX; Annex C2
6. Displacements under service load see ETA-19/0420; Annex C2 & C3

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Design resistance – Bending moment – MRd [Nm] – Masonry

| Tuotenro | Design resistance – Bending moment – MRd - Masonry [Nm] | | |
|---------------------|---|------------------|-------------------------|
| | Carbon steel 5.8 | Carbon steel 8.8 | Stainless steel ≥ A2-70 |
| POLY-GPG + LMAS M6 | 6.4 | 9.6 | 7.1 |
| POLY-GPG + LMAS M8 | 15.2 | 24 | 16.7 |
| POLY-GPG + LMAS M10 | 29.6 | 48 | 33.3 |
| POLY-GPG + LMAS M12 | 52.8 | 84 | 59 |
| POLY-GPG + LMAS M16 | - | - | - |
| POLY-GPG + LMAS M20 | - | - | - |
| POLY-GPG + LMAS M24 | - | - | - |
| POLY-GPG + Ø8 | - | - | - |
| POLY-GPG + Ø10 | - | - | - |
| POLY-GPG + Ø12 | - | - | - |
| POLY-GPG + Ø16 | - | - | - |
| POLY-GPG + Ø20 | - | - | - |
| POLY-GPG + Ø25 | - | - | - |
| POLYGPG300BG-SE | - | - | - |

Masonry :

| | Compressive strength f_b [N/mm ²] | Bulk density ρ [kg/m ³] |
|--------------------|---|--|
| Solid clay masonry | ≥ 18 | ≥ 1600 |
| Hollow masonry | ≥ 6 | ≥ 900 |

1. The design resistances have been calculated using the partial safety factors for resistances stated in ETA-approval(s).
2. The recommended loads have been calculated using the partial safety factors for resistances stated in ETA-approval(s) and with a partial safety factor for actions of $\gamma_F=1.4$.
3. For combined tension and shear loads or anchor groups and/or in case of edge influence, a calculation acc. TR 054, design method A shall be performed. For details see ETA - assessment(s)
4. Temperature range: -40°C/+40°C (T_{mlp} = +24°C)
5. Coefficient factor β for in situ tests acc. ETAG 029 see ETA-19/XXXX; Annex C2
6. Displacements under service load see ETA-19/0420; Annex C2 & C3

Design resistance – Tension – NRd [kN] – Rebar

| Tuotenro | Design resistance – NRd – Rebar [kN] | | | | | | | |
|----------------|--------------------------------------|--------|--------|--------|----------------|--------|--------|--------|
| | Non-cracked concrete | | | | | | | |
| | $h_{ef} = 8d$ | | | | $h_{ef} = 12d$ | | | |
| | C20/25 | C30/37 | C40/50 | C50/60 | C20/25 | C30/37 | C40/50 | C50/60 |
| POLY-GPG + Ø8 | 4.9 | 4.9 | 4.9 | 4.9 | 7.4 | 7.4 | 7.4 | 7.4 |
| POLY-GPG + Ø10 | 7.7 | 7.7 | 8.4 | 8.4 | 11.5 | 11.5 | 12.7 | 12.7 |
| POLY-GPG + Ø12 | 11.1 | 12.2 | 12.2 | 13.3 | 16.6 | 18.2 | 18.2 | 19.9 |
| POLY-GPG + Ø16 | 15.3 | 16.8 | 16.8 | 18.4 | 23 | 25.3 | 25.3 | 27.6 |
| POLY-GPG + Ø20 | 23.9 | 26.3 | 26.3 | 28.7 | 35.9 | 39.5 | 39.5 | 43.1 |
| POLY-GPG + Ø25 | 37.4 | 41.1 | 44.9 | 48.6 | 53.8 | 59.2 | 64.6 | 70 |

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Design resistance – Shear – V_{Rd} [kN] – Rebar

| Tuotenro | Design resistance – V_{Rd} – Rebar [kN] | | | | | | | |
|----------------|---|--------|--------|--------|----------------|--------|--------|--------|
| | Non-cracked concrete | | | | | | | |
| | $h_{ef} = 8d$ | | | | $h_{ef} = 12d$ | | | |
| | C20/25 | C30/37 | C40/50 | C50/60 | C20/25 | C30/37 | C40/50 | C50/60 |
| POLY-GPG + Ø8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| POLY-GPG + Ø10 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 |
| POLY-GPG + Ø12 | 20.3 | 20.3 | 20.3 | 20.3 | 20.3 | 20.3 | 20.3 | 20.3 |
| POLY-GPG + Ø16 | 36.2 | 36.2 | 36.2 | 36.2 | 36.2 | 36.2 | 36.2 | 36.2 |
| POLY-GPG + Ø20 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 |
| POLY-GPG + Ø25 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 |

Design resistance – Bending moment – M_{Rd} [Nm] – Rebar

| Tuotenro | Design resistance – Bending moment – M_{Rd} – Rebar [Nm] |
|----------------|--|
| POLY-GPG + Ø8 | 21.6 |
| POLY-GPG + Ø10 | 42.3 |
| POLY-GPG + Ø12 | 73.5 |
| POLY-GPG + Ø16 | 173.7 |
| POLY-GPG + Ø20 | 339.1 |
| POLY-GPG + Ø25 | 662.7 |

POLY-GPG
General Purpose Resin Mortar

Asennus

Curing Schedule

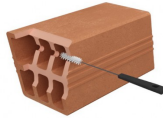
| Temperature of the anchorage base $T_{\text{base material}}$ | Working time (Gel time) t_{gel} | Curing time (in dry concrete) $t_{\text{cure, dry}}$ | Curing time (in wet concrete) $t_{\text{cure, wet}}$ |
|---|---|---|---|
| $0^{\circ}\text{C} \leq T_{\text{base material}} < +10^{\circ}\text{C}$ | 20 min | 90 min | 3:00 h |
| $+10^{\circ}\text{C} \leq T_{\text{base material}} < +20^{\circ}\text{C}$ | 9 min | 60 min | 2:00 h |
| $+20^{\circ}\text{C} \leq T_{\text{base material}} < +30^{\circ}\text{C}$ | 5 min | 30 min | 1:00 h |
| $+30^{\circ}\text{C} \leq T_{\text{base material}} \leq 40^{\circ}\text{C}$ | 3 min | 20 min | 40 min |

- **Manual Air Cleaning (MAC)** for all drill hole diameters $d_0 \leq 24$ mm and drill holl depth $h_0 \leq 10d$:
 4x blowing (hand pump)
 4x brushing
 4x blowing (Hand pump)
- **Compressed Air Cleaning (CAC)** for all drill hole diameters d_0 and drill hole depths :
 2x blowing (min. 6 bar - oil free compressed air)
 2x brushing
 2x blowing (min. 6 bar - oil free compressed air)
- **Cartridge temperature (Bond material) : $\geq +20^{\circ}\text{C}$**

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Poraa.



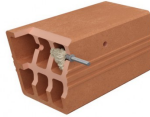
Harjaa.



Asenna reikähyly.



Injektoi injektointimassa.



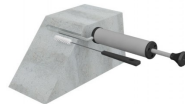
Asenna kierretanko hitaasti pyörittäen.



Kovettumisen jälkeen liitoksella on täysi kestävyys.



Poraa.



Poista pöly harjaamalla ja puhaltamalla.



Täytä reiästä puolet tai kaksi kolmasosaa, vedä sekoitusputkea ulospäin jokaisella painalluksella.



Asenna LMAS-kierretanko hitaasti pyörittäen.

Kovettumisen jälkeen liitoksella on täysi kestävyys.

Installation parameters – Concrete

| Tuotenro | Installation parameters - Concrete | | | | | |
|---------------------|------------------------------------|--|--|--|------------------|---|
| | Ø drilling [d ₀] [mm] | Max. fixture hole Ø [d _f] [mm] | Drilling depth (8d) [h ₀ =h _{ef} =8d] [mm] | Drilling depth (12d) [h ₀ =h _{ef} =12d] [mm] | Wrench size [SW] | Installation torque [T _{inst}] [Nm] |
| POLY-GPG + LMAS M8 | 10 | 9 | 64 | 96 | 13 | 10 |
| POLY-GPG + LMAS M10 | 12 | 12 | 80 | 120 | 17 | 12 |
| POLY-GPG + LMAS M12 | 14 | 14 | 96 | 144 | 19 | 20 |
| POLY-GPG + LMAS M16 | 18 | 18 | 128 | 196 | 24 | 40 |
| POLY-GPG + LMAS M20 | 24 | 22 | 160 | 240 | 30 | 70 |
| POLY-GPG + LMAS M24 | 28 | 26 | 192 | 288 | 36 | 90 |

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Spacing, edge distances and member thickness – Concrete

| Tuotenro | Spacing, edge distance and member thickness - Concrete | | | | | | | | | |
|---------------------|--|--|--|--|---|---|---|---|---------------------------------|---------------------------------------|
| | Effective embedment depth (8d) [$h_{ef,8d}$] [mm] | Characteristic spacing for $h_{ef,8d}$ [$S_{cr,N}$] [mm] | Characteristic edge distance for $h_{ef,8d}$ [$C_{cr,N}$] [mm] | Min. member thickness for $h_{ef,8d}$ [h_{min}] [mm] | Effective embedment depth (12d) [$h_{ef,12d}$] [mm] | Characteristic spacing for $h_{ef,12d}$ [$S_{cr,N}$] [mm] | Characteristic edge distance for $h_{ef,12d}$ [$C_{cr,N}$] [mm] | Min. member thickness for $h_{ef,12d}$ [h_{min}] [mm] | Min. spacing [S_{min}] [mm] | Min. edge distance [C_{min}] [mm] |
| POLY-GPG + LMAS M8 | 64 | 192 | 96 | 100 | 96 | 288 | 144 | 126 | 40 | 40 |
| POLY-GPG + LMAS M10 | 80 | 240 | 120 | 110 | 120 | 360 | 180 | 150 | 50 | 50 |
| POLY-GPG + LMAS M12 | 96 | 288 | 144 | 126 | 144 | 432 | 216 | 174 | 60 | 60 |
| POLY-GPG + LMAS M16 | 128 | 384 | 192 | 158 | 196 | 588 | 294 | 226 | 80 | 80 |
| POLY-GPG + LMAS M20 | 160 | 480 | 240 | 190 | 240 | 720 | 360 | 270 | 100 | 100 |
| POLY-GPG + LMAS M24 | 192 | 576 | 288 | 222 | 288 | 864 | 432 | 318 | 120 | 120 |

Installation parameters – Masonry – Solid clay masonry

| Tuotenro | Installation parameters - Solid clay masonry | | | | |
|---------------------|--|--|-------------------------------|-----------------------------------|---|
| | \emptyset drilling [d_0] [mm] | Max. fixture hole \emptyset [d_f] [mm] | Drilling depth [h_1] [mm] | Embedment depth [h_{ef}] [mm] | Installation torque [T_{inst}] [Nm] |
| POLY-GPG + LMAS M6 | 8 | 7 | 85 | 80 | 1 |
| POLY-GPG + LMAS M8 | 10 | 9 | 85 | 80 | 1 |
| POLY-GPG + LMAS M10 | 12 | 12 | 90 | 85 | 1 |
| POLY-GPG + LMAS M12 | 14 | 14 | 90 | 85 | 1 |

Installation parameters – Masonry – Hollow masonry

| Tuotenro | Installation parameters - Hollow masonry | | | | |
|---------------------|--|--|-------------------------------|-----------------------------------|---|
| | \emptyset drilling [d_0] [mm] | Max. fixture hole \emptyset [d_f] [mm] | Drilling depth [h_1] [mm] | Embedment depth [h_{ef}] [mm] | Installation torque [T_{inst}] [Nm] |
| POLY-GPG + LMAS M6 | 12 | 7 | 85 | 80 | 2 |
| POLY-GPG + LMAS M8 | 12 | 9 | 85 | 80 | 2 |
| POLY-GPG + LMAS M10 | 16 | 12 | 90 | 85 | 2 |
| POLY-GPG + LMAS M12 | 16 | 14 | 90 | 85 | 2 |

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Spacing, edge distances and member thickness – Masonry – Solid clay masonry

| Tuotenumero | Spacing, edge distance and member thickness - Solid clay masonry | | | |
|---------------------|--|---|-------------------------------|---------------------------------------|
| | Min. spacing [S_{min}] [mm] | | | Min. edge distance [C_{min}] [mm] |
| | $s_{cr,N} = s_{min}$ [mm] | $s_{cr,N} \parallel = s_{min} \parallel$ [mm] | $s_{cr,N}^T = s_{min}^T$ [mm] | $c_{cr,N} = c_{min}$ [mm] |
| POLY-GPG + LMAS M6 | 240 | - | - | 120 |
| POLY-GPG + LMAS M8 | 240 | - | - | 120 |
| POLY-GPG + LMAS M10 | 255 | - | - | 127.5 |
| POLY-GPG + LMAS M12 | 255 | - | - | 127.5 |

Spacing, edge distances and member thickness – Masonry – Hollow masonry

| Tuotenumero | Spacing, edge distance and member thickness - Hollow masonry | | | |
|---------------------|--|---|-------------------------------|---------------------------------------|
| | Min. spacing [S_{min}] [mm] | | | Min. edge distance [C_{min}] [mm] |
| | $s_{cr,N} = s_{min}$ [mm] | $s_{cr,N} \parallel = s_{min} \parallel$ [mm] | $s_{cr,N}^T = s_{min}^T$ [mm] | $c_{cr,N} = c_{min}$ [mm] |
| POLY-GPG + LMAS M6 | - | 250 | 120 | 100 |
| POLY-GPG + LMAS M8 | - | 250 | 120 | 100 |
| POLY-GPG + LMAS M10 | - | 250 | 120 | 100 |
| POLY-GPG + LMAS M12 | - | 250 | 120 | 100 |

Installation parameters – Rebar

| Tuotenumero | Installation parameters – Rebar | | |
|---------------------------|-------------------------------------|--|--|
| | \emptyset drilling [d_d] [mm] | Drilling depth ($8d$) [$h_0=h_{ef}=8d$] [mm] | Drilling depth ($12d$) [$h_0=h_{ef}=12d$] [mm] |
| POLY-GPG + $\emptyset 8$ | 12 | 64 | 96 |
| POLY-GPG + $\emptyset 10$ | 14 | 80 | 120 |
| POLY-GPG + $\emptyset 12$ | 16 | 96 | 144 |
| POLY-GPG + $\emptyset 16$ | 20 | 128 | 192 |
| POLY-GPG + $\emptyset 20$ | 25 | 160 | 240 |
| POLY-GPG + $\emptyset 25$ | 32 | 200 | 288 |

POLY-GPG General Purpose Resin Mortar

Spacing, edge distances and member thickness – Rebar

| Tuotenumero | Spacing, edge distance and member thickness – Rebar | | | | | | | | | |
|----------------|---|---|---|---|---|--|--|--|---------------------------------------|---|
| | Effective embedment depth (8d) [h _{ef,8d}] [mm] | Characteristic spacing for h _{ef,8d} [S _{cr,N}] [mm] | Characteristic edge distance for h _{ef,8d} [C _{cr,N}] [mm] | Min. member thickness for h _{ef,8d} [h _{min}] [mm] | Effective embedment depth (12d) [h _{ef,12d}] [mm] | Characteristic spacing for h _{ef,12d} [S _{cr,N}] [mm] | Characteristic edge distance for h _{ef,12d} [C _{cr,N}] [mm] | Min. member thickness for h _{ef,12d} [h _{min}] [mm] | Min. spacing [S _{min}] [mm] | Min. edge distance [C _{min}] [mm] |
| POLY-GPG + Ø8 | 64 | 192 | 96 | 100 | 96 | 288 | 144 | 126 | 40 | 40 |
| POLY-GPG + Ø10 | 80 | 240 | 120 | 110 | 120 | 360 | 180 | 150 | 50 | 50 |
| POLY-GPG + Ø12 | 96 | 288 | 144 | 126 | 144 | 432 | 216 | 174 | 60 | 60 |
| POLY-GPG + Ø16 | 128 | 384 | 192 | 168 | 192 | 576 | 288 | 232 | 80 | 80 |
| POLY-GPG + Ø20 | 160 | 480 | 240 | 210 | 240 | 720 | 360 | 290 | 100 | 100 |
| POLY-GPG + Ø25 | 200 | 600 | 300 | 264 | 288 | 864 | 432 | 352 | 120 | 120 |

