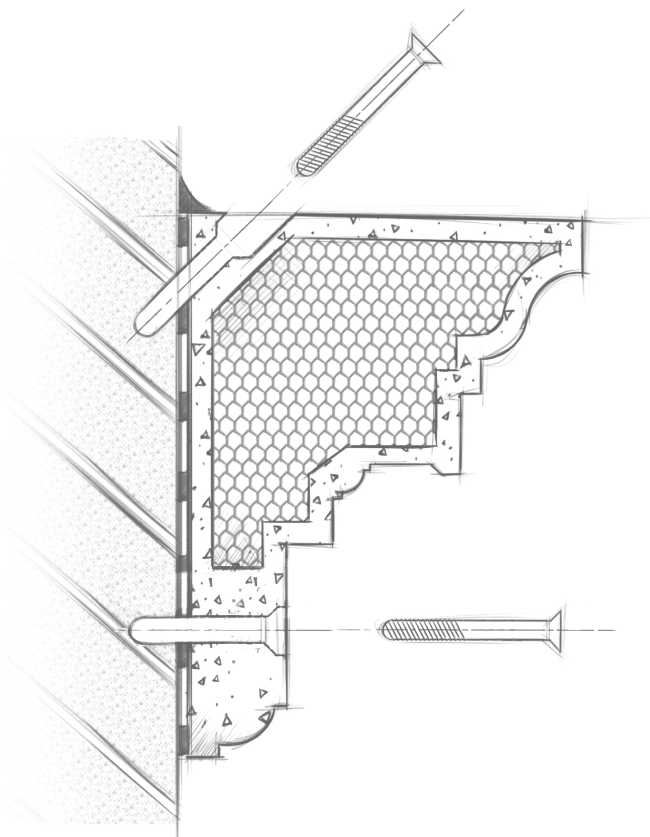


MELGRAND.



Solid Lightweight Moulds Installation Guide



V1.2020

SOLID LIGHTWEIGHT MOULDS INSTALLATION GUIDE

Solid Lightweight Moulds come in two standard forms:

Solid Lightweight:

- Architraves
- Stringers
- Sills

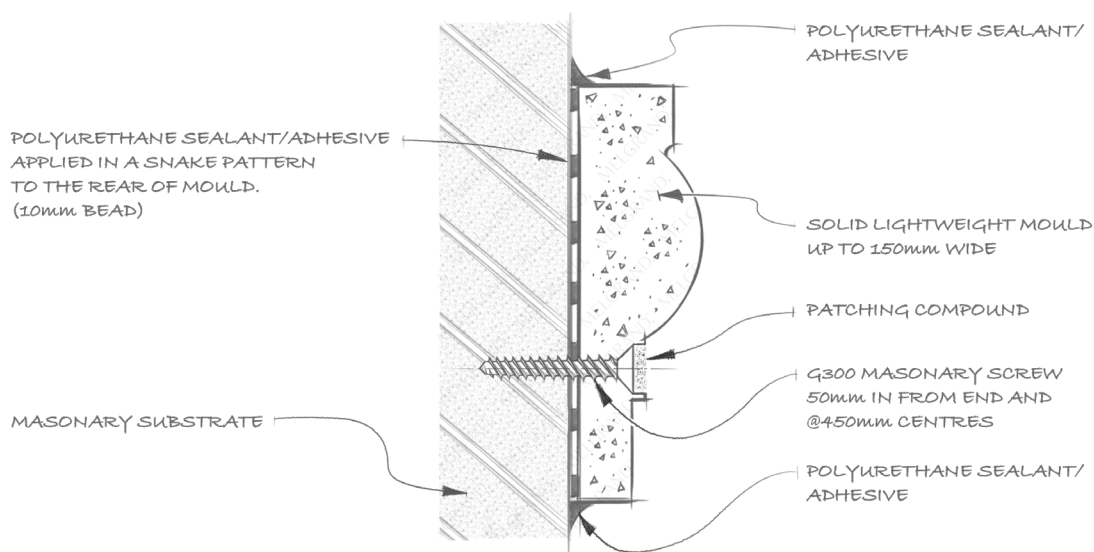
Solid Lightweight with polystyrene core:

- Sills
- Parapets and eaves

Both of the above are to be mechanically fixed to the following substrates;

- Precast concrete,
- Block work,
- Brick,
- Render and Harditex base sheet.

- Solid lightweight moulds without the polystyrene core are to be drilled and mechanically fixed to the substrate with G300 Masonry Screws. (Hammer drill must not be used when drilling through solid lightweight moulds).
- When fixing to fibre cement substrate, the solid lightweight moulding is to be predrilled and screwed through the fibre cement into the sub-frame, either steel or timber.
- Solid lightweight moulds can be easily cut with tungsten tipped handsaw and mitre box or electric compound drop saw with diamond tip blade.



FIXING DETAIL FOR SOLID LIGHTWEIGHT MOULDS
UP TO 150MM WIDE

SOLID LIGHTWEIGHT MOULDS INSTALLATION GUIDE

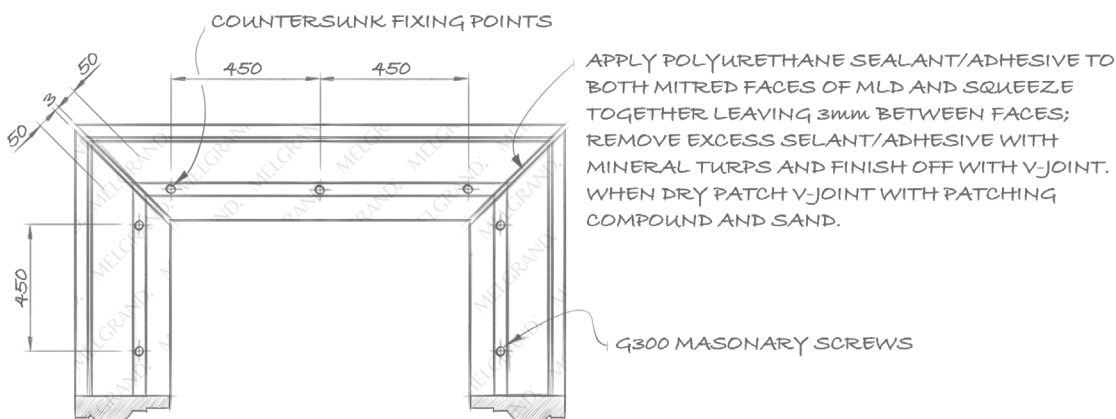
Substrate surface Preparation

Make sure the substrate is true and level prior to installing the solid lightweight moulds. Should the substrate be uneven, install suitable packers at the low points to make true the substrate.

When the solid lightweight moulding is installed onto a true and level substrate, it eliminates undue stress that can result in cracking of the moulding at a later date with expansion and contraction.

Position and Fixing

Prior to installing the solid lightweight moulding, mark the wall with a chalk line to achieve a level datum line and install temporary nails or timber blocks along the chalk line, so as to allow the moulding to sit in position, whilst being fixed in to the substrate.



FIXING DETAIL FOR SOLID LIGHTWEIGHT MOULDS
ABOVE 150mm WIDE

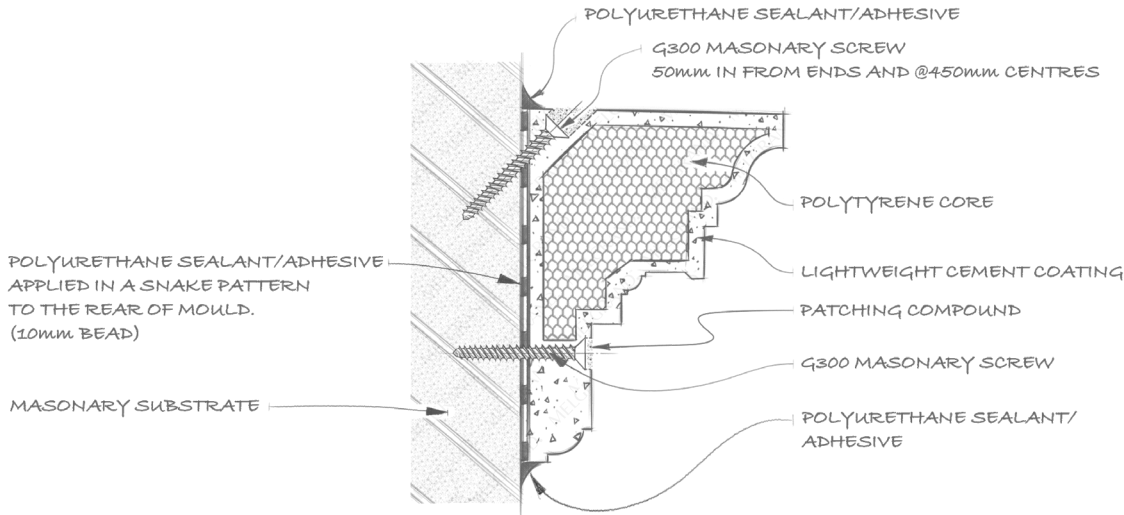
Solid Lightweight Moulds With Polystyrene Core

The solid lightweight moulds with a polystyrene core have an approximate 12mm thick layer of cementitious fibre reinforced cover completely encasing the core. It is reinforced and fully integral. The top and bottom leading edges of these mouldings are more solid with approximate 20mm depth of cement fibre reinforced cover.

The fixing of these mouldings is similar to the solid lightweight moulds without the polystyrene core with the difference being that, in a parapet style application, the top edge fixing is at an angle of 45 degrees through the top coating into the substrate and secured with an appropriate type masonry screw, 50mm in from each end and at 450mm centres.

SOLID LIGHTWEIGHT MOULDS INSTALLATION GUIDE

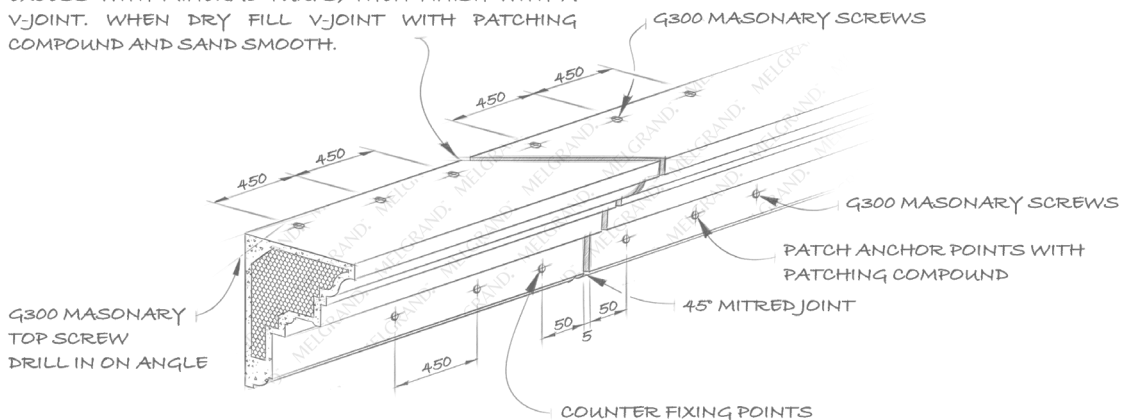
A double row of fixings is required for larger parapet mouldings. (refer to fixing positions for mouldings above 150mm wide and fixing positions for large standard lightweight moulds).



FIXING DETAIL FOR LARGE SOLID LIGHTWEIGHT MOULDS
ABOVE 150mm WIDE

The head of the G300 Masonry Screw is countersunk into the top layer of coating and patched using the zapfil patching compound. All other fixing instructions are the same as indicated for solid lightweight mouldings without polystyrene core. (refer to attached drawings for additional fixing details).

APPLY POLYURETHANE SEALANT/ADHESIVE TO BOTH FACES OF MOULD AND SQUEEZE TOGETHER, REMOVING EXCESS WITH MINERAL TURPS, THEN FINISH WITH A V-JOINT. WHEN DRY FILL V-JOINT WITH PATCHING COMPOUND AND SAND SMOOTH.



FIXING DETAIL FOR LARGE SOLID LIGHTWEIGHT MOULDS
ABOVE 150mm WIDE

SOLID LIGHTWEIGHT MOULDS INSTALLATION GUIDE

Where solid lightweight moulds are to be fixed to face brickwork, the area must be cleaned prior to installation and it is suggested to render or bag the brick around the window reveal to blend in with the window architrave moulding.

Brick joints must not be raked where mouldings are to be applied around windows to allow complete fixing and sealing to face brick substrate.

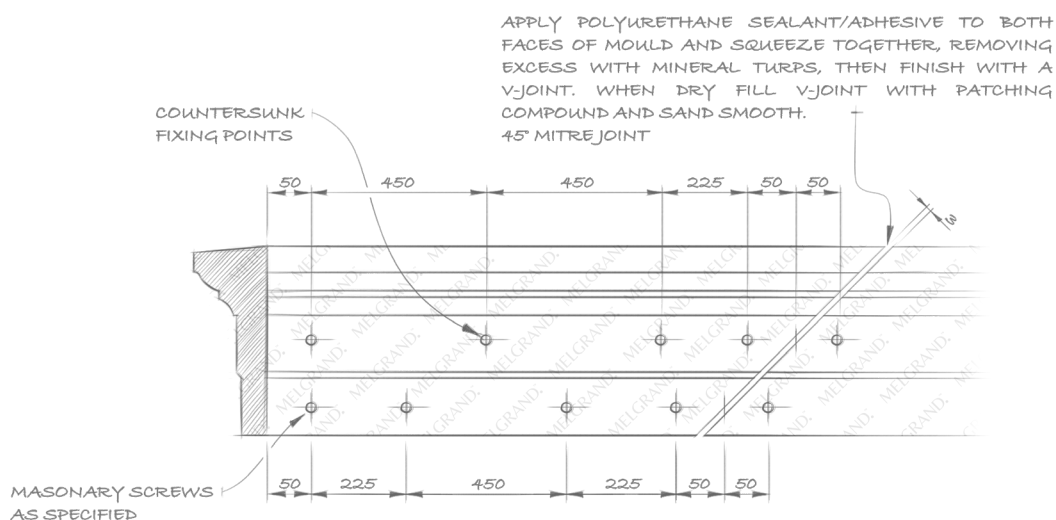
Where butt joints occur in solid lightweight mouldings with a polystyrene core the two abutting ends must be cut on a 45 degree mitre and the two ends are to be coated with Polyurethane Adhesive/ Sealant and squeezed together to form a 5mm joint gap between the mouldings. Excess Adhesive/ Sealant is to be removed leaving a fine visible pencil line joint.

Technical Services

To assist architects, engineers and the building industry in general, MELGRAND Architectural Products maintain a staff of experienced sales, engineers and technical representatives.

MELGRAND staff are able to advise on design and technical questions associated with the application of architectural solid lightweight mouldings.

Where butt joints occur in solid lightweight mouldings the two abutting ends must be cut on a 45 degree mitre and both ends are to be coated with Polyurethane Adhesive/ Sealant and squeezed together leaving a distance of approximately 3mm between moulds.



FIXING DETAIL FOR SOLID LIGHTWEIGHT MOULDS
ABOVE 150mm WIDE

SOLID LIGHTWEIGHT MOULDS INSTALLATION GUIDE

When fixing the solid lightweight mould, drill through the moulding and into the substrate with a masonry drill to suit the size of the masonry anchor (at least 3mm below the moulding surface, hammer drill must not be used when drilling through moulding).

The G300 Masonry Screw is then inserted through the moulding, into the substrate and then slowly screwed through the mould and into the substrate, with care taken not to damage the face of the moulding.

Fixings are to be installed within 50mm of each end of the moulding and then stagger fixings are to be installed at 450mm centres along the length of the moulding.

Where mouldings are wider than 150mm, two fixings are to be installed 50mm in from the ends and butt joints with ongoing fixings staggered at 450mm centres (refer to the fixing details for large standard lightweight moulds).

The above fixing specification relates to standard moulding. **Please check with MELGRAND Architectural Products for the preferred fixing method of non-standard profiles.**

Countersunk fixings can be filled with Patching Compound and smoothed off to achieve the same surface texture as the moulding. Patching compound can be sanded smooth when dry with 120 grit sandpaper.

After the full length of the moulding is fixed into position both abutting side edges must be sealed between the moulding and the substrate with Polyurethane Adhesive/ Sealant. (acrylic based gap filler mastics are not to be used).

Joins in the mouldings are to have a 5mm straight cut gap filled and surface leveled (clean) with Patching Compound leaving a fine visible pencil line joint.

When solid lightweight mouldings intersect an expansion joint in the substrate, the same size expansion gap must be carried through the mouldings, DO NOT run the moulding over the expansion joint.

Upon completion of the lightweight moulding installation the complete exposed surface of the moulding is to be painted with one coat of Masonry Sealer so as to eliminate moisture ingress and porosity difference between the patching compound and the moulding face.

As the solid lightweight mouldings have sharp, clean, straight lines in the profile, it is not recommended to overcoat the moulding with render or texture.

WARRANTY

MELGRAND does warrant solid lightweight mouldings are free from defects caused by faulty manufacture or materials. If any of the MELGRAND profiles are so defective, MELGRAND will as an option either replace them or reimburse the purchaser for the purchase price.

The fixing methods recommended in this literature are formulated along the lines of good building practice and are intended to assist experienced tradesman in construction procedures. However, this literature is not intended to be an exhaustive statement of all relevant data as the successful installation of the MELGRAND system depends on numerous factors outside the control of MELGRAND eg. quality of workmanship, particular design requirement etc. The company accepts no responsibility for or in connection with the quality of moulding installation or their suitability for any purpose when installed. This warranty excludes all other warranties and liability for damage or loss in connection with defects in MELGRAND products, other than those compulsorily imposed by legislation, notable the Trade Practices Act.

SOLID LIGHTWEIGHT MOULDS INSTALLATION GUIDE

Solid Lightweight Moulds Accessories Estimate Sheet

NYLON ANCHORS

Large profiles

8 anchors/3.0m length (top)

7 anchors/3.0m length (bottom)

Small profiles

8 anchors/3.0m length (top)

7 anchors/2.4m length (bottom)

SEALANT/ADHESIVE

1 x 600ml Polyurethane sausage for every 12 lineal meters (moulds up to 120mm wide)

2 x 600ml Polyurethane sausage for every 12 lineal meters (moulds 120mm to 200mm)

3 x 600ml Polyurethane sausage for every 12 lineal meters (moulds 200mm to 300mm)

(applied to back of moulding plus top and bottom abutting edges)

PATCHING COMPOUND

1 x 1kg for 30 lineal meters

(applied to joints, mitres and fixing points)

WESTOX CRETESEAL

10m² per Litre

The coverage rate may vary based on the porosity of the moulding.



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FINE ARCHITECTURAL PRODUCTS

melgrand.com.au



ADDRESS

VIC 6-8 Anderson Road, Thornbury 3071
NSW 6/376 Newbridge Rd, Moorebank 2170

CONTACT

1300 663 118
Fax 1300 676 233
sales@melgrand.com.au