

Render Solutions

System:
Client:
Applicator:
Project:
Date:

Author:

System Specification

System Specification

weberpral M

Scraped Finish

A one-coat through-coloured cementitious render, in a range of

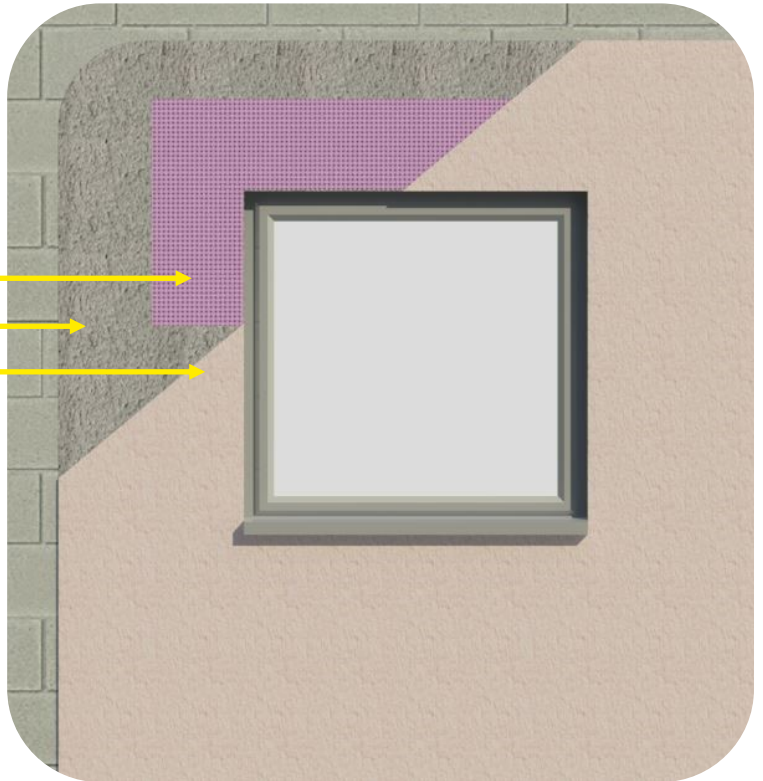
MATERIALS REQUIRED

weber standard meshcloth

weberend aid (If required)

weberpral M

The choice of substrate to receive a render finish is important to maximise bond and help reduce cracking. The main factors to consider when choosing a substrate to be rendered are: Strength, Suction and Key. Typically a medium-density 1350-1450kg/m³, 3.6-7.3kN general purpose, concrete block with a mortar cement:lime:sand ratio of 1:1:6 will satisfy these requirements. Industry Best Practice should be followed in regard movement control. The recommendations in BS5628 : Part 3 and BS EN 13914-1 should be observed.



FOR THE DESIGNER

weberpral M is scrape is a one-coat render, normally applied to a finished thickness of 15mm-25mm. The finished thickness depends on site exposure. **weberpral M** is a through-coloured mortar and is available in a range of colours. The scrape texture is achieved by scratching the surface using a nail float. This operation is carried out when the mortar is almost dry and removes the surface laitance to leave a coloured face with a light pitted texture. **weberend protect** is a surface treatment for protecting render from water and liquid ingress. Prevents ingress of most types of surface contamination, including water, oil and graffiti whilst maintaining the surface aesthetics and allowing the substrate to breathe. weberpral is available in 24 colours.

For the Estimator

weberend aid

weberpral M (15mm thickness)

weber CL150

weber mesh standard

weberend protect

4kg/m² in 25kg bags

21/kg/m² 25kg bags

0.1 litre/m² in 25 litre bottles

approx. 45m² a roll

5m² per litre (dependant on porosity)

Contractor's/clients design team need to ensure the system installed meets the building regulations requirements along with undertaking design liability for the building and its entirety including compliance with supplementary guidance. barriers

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M20 Plastered/Rendered/Roughcast/Dry Dash Coatings. One Coat Render Systems Ss_25_45_70_60

To be read with Preliminaries/General conditions.
TYPE [S] OF COATINGS.

160A WEBER PROPRIETARY ONE-COAT COLOUR RENDER SYSTEM:

- Project:
- Location: To specified wall areas as identified on architect's drawings or other Contract Documents
- Manufacturer: Saint-Gobain Weber
- Product reference: **weberpral M**
- Substrate - Masonry background
- Background: Masonry with a suitable strength and compatible with a 1:1:6 mortar mix could be confirmed by block manufacturer. The recommendations in BS528: Part 3 and BS EN 13914-1: 2016 should be observed. Refer to clause 509A
- Thickness:
- **15 to 25mm (finished).** 15mm finished thickness (min) to Sheltered/ Moderate and 20mm finished thickness (min) Severe as per BS EN13914-1: 2016. **Very severe** weather conditions minimum 20mm finished thickness (Assumptions based upon BS EN 13914 – 1: 2016) Refer to approved document C table 4
- Finish: **Scraped finish refer to clause 861A, Ashlar finish 861B, Roughcast finish 866A, Dry Dash 871A.**
- Colour
- Flatness: Comply to BS EN 1996 – 2: 2006 /BS5606: 1990
- Reaction to Fire: A1 – EN998-1, the product is classified as 'non-combustible' (as defined by the building regulations) as it contains less than 1% organic material and is therefore unrestricted by these regulations. This classification applies to the complete colour
- Water Absorption: W2 (EN998-1)
- Durability: (Adhesion after weathering cycles) $\geq 0.2 \text{ N/mm}^2$ (A, B, C) (EN998-1)
- Durability: (Water permeability after weathering cycles) $\leq 1 \text{ ml/cm}^2$ (EN998-1)
- Environmental: BBA Environmental profile certificate **EP 17/1005**
- BBA Certificate: 17/5464
- Accessories: Render only beads, if required by the system or product, or if specified, shall be of appropriate design, gauge and material as supplied by Weber. Beads to be located and fixed as detailed on Architect's drawings or Weber's bespoke/typical details (this may involve bedding RO beads in **weberend bead adhesive**). Structural, temporary or bead fixings shall be of suitable strength and durability approved and supplied by Weber. Where meshcloth is being incorporated as treatment to areas of potential high stress it shall be weber mesh cloth standard a standard duty, balanced, open weave, glass fibre meshcloth, coated for alkaline resistance, available in 1m x 50m rolls
- **Other Requirements:**
- Ensure movement joints coincide with the building, refer to clauses 647 & 650A
- **To achieve consistent colour, use same batch or alternatively blend mixed batches on site**
- For complementary concrete repair solutions refer to clause 321A and contact Saint-Gobain Weber
- Reduce maintenance cycle use **weberend protect** and Repair and maintenance guides are available upon request
- Change of colour and increased weather protection complimentary with the use of **webersil P**

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- Impact Resistance: Provides adequate resistance to impact damage and cracking in all normal circumstances. Where the product is exposed to severe impact (e.g. some industrial sites) or applied over existing background cracks, precautions may be required to reduce the risk of damage.
- Guarantees **will only be issued** if requested prior to project commencement. Weber's written instructions must be followed
- **Any non-Weber products used within the system will invalidate the guarantee and the performance cannot be supported.**

PREPERATION

- Substrate must provide suitable key / suction. The adequate use of movement joints will help reduce stress build up in the substrate and thus reduce the risk of cracking. Movement joints must continue through the render to the substrate
- All the major building components must be fitted. This includes copings, cappings and flashings, windows and doors, soffits and fascia's etc. The fittings must be detailed to protect the finished render from staining due to localised water run-off. Flue pipes, air bricks and weep holes should also be in final position prior to the application of render. Refer to clause 322A
- If required weber CL150 fungicidal wash to kill moss, algae or unseen spores/any organic growth.
- Application of **weberend aid** as a key coat to provide mechanical key using a hawk and trowel in a tight layer 2–3 mm thick to the substrate. Texture the surface using a well loaded roller. Apply no more than 2–3 m2 before texturing Ensure the final texture achieved is a deep heavy stipple finish with a minimum textured depth of 5–10 mm and leave to cure for 48 hours. Insufficient key will inhibit the render bond; this is particularly relevant on low suction substrates where capillary absorption is minimal.
- Fit render only base (drip), stop and corner beads, where required
- To reduce substrate cracks being visible Weber recommend incorporating **webermesh standard** (meshcloth) into the weberend aid key coat to typical stress points areas, such as above and below openings.

GENERAL REQUIREMENTS

290 KEY COAT TO BACKGROUND (IF APPLICABLE)

- Substrate: Suitable Masonry refer to data sheet/best practice/application guide
- Mix: weberend aid to provide mechanical key applied to substrate.
- Thickness: 3mm.
- Finish: Texture the surface using a well loaded roller.

300A SPECIFICATION VARIATION

- Any variation to this specification (or any Saint-Gobain Weber specification) must be agreed prior to commencement of works with Saint-Gobain Weber, who will amend and reissue the specification (and guarantee offer where applicable) in accordance with the agreed variation/s. Any other relevant or significant variations in the prevailing circumstances and construction method or build-up must also be notified in writing to Saint-Gobain Weber prior to commencement of works. Saint-Gobain Weber will not accept any liability for any costs associated with any consequential issues arising from unauthorised variations or un-notified changes in circumstances relating to the application or performance of Saint-Gobain Weber products or systems.

310A DESIGN

- Complete the detailed design of the system and associated features shown on the drawings to meet the requirements of this specification.

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320A INTEGRITY

- The installation must be weather tight under all anticipated conditions. Consult with Saint-Gobain Weber Technical for specific details and relating to particular conditions.
- The installation must be capable of resisting all dead loads and design live loads, including impact and wind loads, and accommodate all thermal movements without damage.

321A STRUCTURAL REPAIRS:

- All necessary repairs to the structure must be carried out by suitably qualified contractors and be complete prior to the application of Saint-Gobain Weber products and systems. Contact Saint-Gobain Weber 08703 330070 for complimentary technical mortars solutions and specifications.

322A WINDOW CILL PROJECTION:

- Where window frames incorporating window cills are to be provided by others, then the cill must project sufficiently beyond the outside line of the Saint-Gobain Weber render system to a recommended 40mm minimum.

403A SERVICES

- Contractor cannot remove or alter services and equipment (Including BT cables) and ensure that all services are maintained throughout contract. The appointed contractor must arrange removal of services/equipment prior to rendering and reinstallation after completion of rendering works.

404A PROTECTION

- All entrances, footpaths and balcony's **must** be fully protected during installation of Weber render systems. Footpaths need to be cleared at night to allow safe access and egress prior to departure. Windows/door screens (glazing) to be fully protected during operations. Frames/concrete to remain clean as work proceeds.
- Landscaping must be fully protected (polythene or similar) and environs kept clean along with mixing areas for materials fully protected.
- After removal of scaffold, all areas must have environs cleaned and rubbish removed within a one-week period.
- Gas flues to be fully protected during casting and cleaned on completion (Contractor to forward method statement prior to starting work) as clauses 420A and 514.

407A EXISTING WINDOWS

- Contractor must check all floor windows/balcony doors prior to starting work on application and on completion, that they will open when work is complete.

411A INSTALLATION

- To be carried out by a contractor recommended by the system manufacturer. Reference should be made to project specification, method statement, drawings and all other relevant literature. Contact Saint-Gobain Weber for appropriate list of recommended contractors.
- All rendering must be in accordance with the relevant recommendations of BS 13914-1: 2005 Design, Preparation & Application of External Rendering & Internal Plastering, BS 8000: Code of Practice for Plastering and Rendering, and Saint-Gobain Weber's printed instructions. All Saint-Gobain Weber masonry paints and decorative finishes must be applied to dry backgrounds, strictly in accordance with Saint-Gobain Weber instructions.

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419A CONTROL SITE SAMPLE(S)

- Prior to work commencing the appointed sub-contractor shall prepare on site a sample panel, incorporating each of the approved products refer to 160A, of suitable area and representative of the quality of workmanship which can be achieved. Sample panel to be on site in approved location throughout the contract for inspection/comparison purposes.

420A GAS FLUES

- All existing gas flues penetrating the fabric, **must** be checked by a Gas safe heating engineer prior to works starting and a full report issued for the works to be carried out. Any flues that require alteration or are not meeting the required standard to be reported immediately. Landlord/Home owner gas safety record must be issued (CP12) prior to main works commencing and on completion of works. Contractor must contact residents where gas flues extend through the external wall and agree time for boiler to be switched off by contractor during casting (protect flue during casting, clean flue on completion). Contractor must arrange access to check system and switch boiler back on (could be outside of normal working hours and needs to be allowed for within the contractor's costs).

421A HEALTH & SAFETY

- It is strictly the contractor's responsibility to ensure that all works are executed in accordance with current health and safety legislation. Guidance must be taken from relevant and current HSE publications.
- Scaffolding safety, the location of rubbish skips, access ladders etc. must be agreed with the client/principal contractor/ principal designer and be in accordance with current Health and Safety regulations.
- The use of all Saint-Gobain Weber materials must be in accordance with relevant Product and Safety Data Sheets which are available at www.uk.weber

422A SCAFFOLDING

- Wherever possible independent scaffolding should be used to avoid the need to subsequently make good putlog holes and other breaks in the work. Where the scaffolding is required to be tied back to the building it is normal to recommend "boxouts" to reduce the incidence of patches left by putlogs and to provide access points for future scaffolding required for maintenance inspection and repairs. The scaffolding must be arranged to enable good access to be obtained to the whole of the face of the building. Sufficient clearance for working is required between the scaffolding and the finished surface of the render (allowance must be included for the thickness of the finished system on the face of the building). Adequate consideration should be taken to prevent following trades or removal of scaffolding from soiling or damaging to finished render system.

423A UNIFORMITY OF COLOUR AND TEXTURE

- Ensure that supplies of materials are sufficient to give consistent and uniform colour and texture. To minimise variations in colour use materials from the same batch, avoid dry jointing and continuous surfaces must be completed without breaks. Programming of work to coincide with elevation breaks, stoppages and weather.

425A PROGRAMMING THE WORK

- It must be ensured that the work is programmed to be carried out during suitable weather conditions, taking into consideration seasonal variations and allow sufficient time in the programme for stoppages due to inclement weather.

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MATERIALS AND MAKING OF MORTAR

429A SITE STORAGE

- Site storage and protection of Saint-Gobain Weber materials must be in accordance with the manufacturer's instructions.

449A ADMIXTURES

- Do not use admixtures of any type with proprietary mixes unless otherwise instructed by Saint-Gobain Weber.

451A CLEANLINESS/PROTECTION

- Protect thoroughly all existing work, windows and approaches using suitable boards, sheets, etc. Clean off all droppings on to finished work immediately. Protection of all fenestrations and fixtures and fittings must be accounted for on all Saint-Gobain Weber products including all pigmented primers, bonding agents and fungicidal washes.

459A CONTAMINATION

- Do not allow contamination of one type of material by another, or by any set material.
- Only use clean cold water and mix in non-contaminated mixing tubs. Ensure only full bags are used when mixing.

461A INITIAL SET

- Do not use mixes after initial set has taken place. Do not retemper or reconstitute mixes.

481A CURING

- Take all necessary precautions to prevent newly rendered surfaces from drying out too rapidly.

492A MESH REINFORCEMENT

- Manufacturer/ Supplier: weber standard mesh cloth.
- Product reference: As above.
- Proportions (approximate): 1000mm x 50,000mm to be applied at typical points of stress
- Condition: As new and stored correctly
- Distribution: Above and below openings by a minimum 500mm above and 200mm past embedded within the key coat or alternatively mid thickness of the applied render (not in contact with the wall).

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495A MIXING (HAND APPLIED)

- Render mortars (site-made):
- Batching: By volume. Use clean and accurate measurement of water. To ensure continuity of batch numbers to complete panels, elevations and those visibly adjacent where this is not possible materials batches should be intermixed by volume.
- Mix proportions: 5.5 litres of water per bag and gradually add contents of the bag and mix thoroughly using a suitable drill and whisk.
- **weberpral**: Mix thoroughly for 5 – 10 minutes and do not over mix.
- Mixes: Of uniform consistence and free from lumps. Do not retemper or reconstitute mixes.
- Contamination: Prevent intermixing with other materials.
- Mixing for weberpral products are as follows: Render pump when mixing the following should be considered: Use only materials directed in correct quantity. Discard suspect materials, which are damp or contaminated. Add proportion of gauging liquid first to prevent clogging the mixer. Don't over mix. Only mix sufficiently to combine materials - then use immediately. Once material has been mixed do not attempt to re-temper it to a workable consistency by adding more water.

495B MIXING (MACHINE APPLIED)

- Render mortars (site-made):
- Batching: By volume. Use clean and accurate measurement of water. To ensure continuity of batch numbers to complete panels, elevations and those visibly adjacent where this is not possible materials batches should be intermixed by volume.
- Mix proportions: 5.5 litres of water per bag and gradually add contents of the bag and mix thoroughly using a suitable batch or continuous spray render machine/pump.
- **weberpral**: Mix thoroughly for 5 – 10 minutes and do not over mix.
- Mixes: Of uniform consistence and free from lumps. Do not retemper or reconstitute mixes.
- Contamination: Prevent intermixing with other materials.

497 COLD WEATHER

- General: Do not use frozen materials or apply coatings on frozen or frost bound substrates.
- External work: Avoid when air temperature is at or below 5°C and falling or below 5°C and rising. Maintain temperature of work above freezing until coatings have fully hardened. Do not apply if there is any likelihood of frost within a 24-hour period.

497A HOT WEATHER

- General: Do not use in full sunlight or in temperatures above 35°C.
- External work: In warm conditions the cooling of the substrate may be in order prior to work commencing. Likewise, in warm dry periods curing of the freshly applied mortar may be required over a 72-hour period by controlled mist spraying with clean water to ensure hydration.
- Internal work: As above curing of the render may be required.

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497B ADVERSE WEATHER

- Application of the system renders and paints must not be carried out in inclement weather conditions as described in BS 13914 & BS 6150 respectively. Do not use frozen materials and do not apply materials to frost bound surfaces. In sunny weather work should commence on the shady side of the building and be continued round following the sun to prevent the rendering drying out too rapidly. Saint-Gobain Weber renders and adhesives must not be applied in rain, fog or mist, at temperatures below 5°C or above 30°C and or if exposure to frost, mist or rain is likely to occur during drying. Maintain temperature of the work above 5°C until adhesive/mortar/render has fully hardened.
- Protect newly rendered surfaces against rain and snow by covering when precipitation occurs. Replace coatings damaged by rain or frost. Care must be taken to programme works to avoid the use of darker render colours to reduce the risk of lime bloom in winter months or within adverse weather conditions. Where extreme and or excessive weather conditions persist, provision must be given for extensions to work periods within the main contract documents. Refer to Saint-Gobain Weber technical services for further assistance.

499A INSPECTION OF COMPLETED INSTALLATION

- As soon as possible after completion of the work and before removing scaffolding, carry out an inspection to identify any defects and report immediately.

PREPARING SUBSTRATES

509A BACKGROUNDS GENERAL

- The substrate should be constructed of durable and moderately strong materials specifically designed to receive modern renders. All substrates should be clean, suitably dry, sound and free from anything that may interfere with the adhesion, such as oil, grease, organic matters and soluble salts.
- Blockwork should have an open texture or a designed key for rendering. Relying on the raking of mortar joints is not sufficient to provide adequate key alone. Smooth dense blocks with little mechanical key should have the key enhanced by an application of **weberend aid** stipple coat. It is important that the block chosen for the scheme is suitable to receive external cement render. Contact block manufacturer for guidance on the suitability of the blocks to receive render along with advice on the correct bedding mortar mix appropriate to the construction. The **weberpral** products have similar characteristics to those of a 1:1:6 cement: lime: sand mix. In our experience a general-purpose medium density concrete block will generally meet the criteria as detailed in this section.
- Brickwork: Provide sufficient key, new brickwork should be laid with the mortar joint recessed 10 – 12mm by width and depth squarely. Existing brickwork will require the joints raking back to the above dimensions. If the joint is too hard, the key should be provided through using a stipple coat of weberend aid. Bricks with a water absorption of less than 7% will require an application of weberend aid regardless of the joints being raked to ensure a good bond of the render due to the lack of suction and key provided by the brick face.
- Some common bricks may contain deleterious sulphate salts. If possible, advice should be sought from the brick manufacturer regarding their use as a substrate for rendering in that location, particularly in high exposure or potentially damp areas. An application of weberend-aid will deter sulphates from crystallising and impairing the bond of the render.
- Concrete: coated with weberend aid stipple coat to provide satisfactory key. No-fines concrete will provide a satisfactory key.

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510A SUITABILITY OF SUBSTRATES

- Soundness: Free from loose areas, cracks and gaps. Before preparation or applications of coatings ensure that: Backgrounds are structurally sound and secure, adequately true and level, free from contamination and loose areas, reasonably dry and in a suitable condition to receive specified coatings.
- The treatment of backgrounds is subject to remedial survey, clauses 160A and full Saint-Gobain Weber recommendations. All cutting, chasing, fixing of concealed conduits, service outlets and the like, and making good of the background is completed.
- Cutting, chasing, making good, fixing of conduits and services outlets and the like: Completed.
- All necessary repairs to the structure should be carried out by suitably qualified contractors and be complete prior to the application of Saint-Gobain Weber products and systems. Remove all television aerials, brackets, lights or tenant's fittings from work surfaces. Disconnect, make safe and carefully remove all live or used cables etc, to be replaced on completion.
- Tolerances: Permitting specified flatness/ regularity of finished coatings.
- Cleanliness: Free from dirt, dust, efflorescence and mould, and other contaminants incompatible with renders. weber CL150 biocidal wash to be applied where algae is visible. Drench the affected area with undiluted weber CL150 using a brush or sprayer. Leave the area for 48 hours to ensure the product as killed all the algae and then wash the area using a pressurised washer with a fanned water jet.
- Strength – the substrate, including joints, must be stronger than the render and should be able to adequately support and restrain it.
- Suction – good adhesion of a render is dependent on good porosity of the substrate. If the suction is too high the render will not hydrate sufficiently. If it is too little there will not be a good bond.
- Texture – to ensure a good bond the substrate should have an open texture, otherwise **weberend aid** will need to be used.
- Typically, a medium-density ($1350\text{--}1450\text{kg/m}^3$, $3.6\text{--}7.3\text{kN}$), general purpose, concrete block with a mortar cement: lime: sand ratio of 1:1:6 will satisfy these requirements.

511A PREPARATION OF BACKGROUNDS

- Substrates to receive render must be clean, sound and dry. The construction must be free from oil contamination, dust, fungal growth, crystallised salts and any other factors that may impair the adhesion of the applied system or form a weak intermediate layer. Fungal or algae growth can be removed using a wash of **weber CL150**.

512A LINE AND LEVEL OF BUILDING

- The background construction should be sufficiently true, in line and plumb to accommodate the product specified and its constraints. The render alone should not be used to correct gross irregularities. As a guide, the maximum that can be achieved is a correction of a deviation of 5mm underneath a 2m straight edge placed anywhere on the surface of the substrate.

514 PREPARATION: EXISTING SERVICES, ETC

- Disconnect, make safe and carefully remove all live or used cables etc., to be replaced on completion. Remove all television aerials, brackets, lights or tenant's fittings from work surfaces and replace upon completion (by main contractor). All existing rainwater and waste disposal fittings to be redirected away from the substrate and Saint-Gobain Weber Render surface whilst works proceed. Replace and refit upon completion of work taking into consideration the thickness of the Saint-Gobain Weber render system. Mechanical fixing of rainwater goods to follow Saint-Gobain Weber technical manual recommendations. All gas and balance and mechanical flues to be extended to anticipated line of system in accordance with British Gas recommendation.

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538A KEY COAT (IF APPLICABLE)

- Materials: **weberend aid**: (polymer modified cement and sand mix which includes an integral bonding agent)
- Mix proportions (**weberend aid**: water): 3:1.
- Consistency: Thick slurry, well mixed.
- Application: By trowel or spray to form a continuous 2 – 3mm coat and then textured with a well loaded roller to form a depth of texture of 5 – 10mm.
- Curing: Controlled to achieve a firm bond to substrate and allow 2 – 3 days before rendering.
- If the substrate cannot provide sufficient support to the rendering, as in the case of smooth concrete, high-density concrete blockwork, engineering brick etc., then a weberend-aid stipple coat should be used. Using a hawk and trowel apply **weberend aid** to a thickness of 2-3mm. Apply no more than 2-3 square metres before producing a deep texture with well loaded roller or brush. Allow to cure for a minimum period of 24 hours.

541 BONDING AGENT APPLICATION

- General: Not applicable

556A REMOVING ALL EXISTING RENDER

- Location and extent: Agree, at least on a provisional basis, before work commences.
- Minimize extent of removal and renewal.
- Render for removal: Detached, hollow, soft, friable, badly cracked, affected by efflorescence or otherwise damaged.
- Cracks: All crack should be professionally assessed for risk of further movement and repaired following a suitable specification.

557A REMOVING DEFECTIVE EXISTING RENDER

- Render for removal: Detached, hollow, soft, friable, badly cracked, affected by efflorescence or otherwise damaged. Removing defective render: Cut out to regular rectangular areas with straight edges. Horizontal and vertical edges: Square cut or slightly undercut. Bottom edges to external render: Do not undercut. Render with imitation joints: Cut back to joint lines. Cracks: Fine hairline cracking/ crazing: Leave. Other cracks: Cut out to a width of 75 mm (minimum). Dust and loose material: Remove from exposed substrates and edges.

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BEADS/ JOINTS

636 PROFILLED BEADS/ STOPS

- Standard: In accordance with BS EN 13914-1.

640A BEADS/ STOPS GENERALLY

- Location: External angles and stop ends, except where specified otherwise.
- Corners: Neat mitres at return angles.
- Fixing: Secure, using longest possible lengths, plumb, square and true to line and level, ensuring full contact of wings with substrate.
- Beads/ stops for external render: Fix mechanically.
- Finishing: After coatings have been applied remove surplus material, while still wet, from surfaces of beads/ stops exposed to view.
- Provide beads/stops at all external angles and stop ends except where specified otherwise. Where uneven dub out the substrate in line of new base bead sufficient to provide flat surface ready to receive render beads to be mechanically fixed in true line and level. Cut neatly, form mitres at return angles and remove sharp edges, swarf and other potentially dangerous projections. Fix securely, using the longest possible lengths, plumb, square and true to line and level, ensuring full contact of wings with background.
- After coatings have been applied, remove coating material while still wet from surfaces of beads/stops, which are to be exposed to view.

646A CRACK CONTROL AT JUNCTIONS BETWEEN DISSIMILAR SOLID SUBSTRATES

- Locations: Where defined movement joints are not required, such as dissimilar that are under compression on a horizontal plane and no risk of movement a standard weber meshcloth can be used.
- Width of installation across face of dissimilar substrates material with weber meshcloth by 200mm each side of the junction.
- Where the render is to be continued over joints between dissimilar solid backgrounds which are in the same plane and rigidly bonded or tied together, all junctions to have a movement joint.

647 CONSTRUCTION/MOVEMENT JOINTS

- Form joints accurately to detail and in locations shown on the architectural drawings. If modifications to any joint location or design are necessary on site, agree revisions with the design team before proceeding. All movement joints to be designed and installed in accordance with relevant Saint-Gobain Weber written recommendations.

650A MOVEMENT JOINTS

- Form joints in coatings to coincide with structural movement joints in background using movement joint bead (reference as per clause 636). Ensure that joints extend through coating to background. All movement joints to be designed and installed in accordance with Saint-Gobain Weber recommendations. Guidance on the placement of movement joints should be gained from the specified block manufacturer and used in conjunction with the BS 5628-3 Code of Practice for Use of Masonry and BS 6093 Code of Practice for Design of Joints and Jointing in Building Construction. The guidance given in these standards is that joints should usually be included at 6m intervals and 3m from corners, however, this will vary depending upon the type of construction and the strength of the brick or block.

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www.uk.weber



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EXTERNAL RENDERING

810A APPLICATION GENERALLY

- Application of render: Firmly and in one continuous operation maintaining a flowing edge between angles and joints. Achieve good adhesion.
- Appearance of finished surfaces: Even and consistent working method is maintained across all panels receiving render. Free from rippling, hollows, ridges, cracks and crazing.
- Accuracy: Finish to a true plane, to correct line and level, with angles and corners to a right angle unless specified otherwise, and with walls and reveals plumb and square.
- Drying: Prevent excessively rapid or localized drying out.

810B APPLICATION GENERALLY

- It is important to have a suitable number of operatives in proportion to the panel size to maintain a flowing wet edge when applying material across the entire panel. Use of a render pump will increase speed of application/productivity along with maintaining a more consistent output compared to traditional manual application. However, with renders that require manual finishing techniques, e.g. scraped textures and Ashlar, it is important to consider how the area can be finished within the open time of the product. Size of application areas should be aligned to the resources available to finish them. Consideration should be given to ensure that the rendered work can be completed in a progressive sequence. This will help to avoid long delays between finishing dates, which in itself may contribute to differences in appearance between the panels. Any changes in application procedure, due to differences in climatic conditions for example, can result in shade variation between rendered bays. Whenever possible the panels should be finished on an external angle.
- weberpral renders are full thickness renders applied in either one or two passes designed to hydrate together as one monolithic coat. The thickness of the passes is determined by the method of finishing and upon the chosen means of application. As an example; for a 15 mm finished thickness, a single 18mm pass can be applied with a machine in one application. By hand, this same thickness would be achieved by the application of two 9mm passes (on average). The initial pass in this instance would normally be allowed to gel prior to the second pass. In areas of high stress (i.e. around a door or window opening) the reinforcement mesh can be added into the fresh initial pass. It is important to ensure a finished monolithic render application; the second pass is generally applied within an hour of the initial pass (may alter depending on conditions). To avoid exposing the interface between the two passes during the finishing process with either application method, the final pass for scraped finishes must not be less than 8mm. Exposing the cement rich interface between the passes produces a 'halo' effect, which is only exaggerated by further scraping.

820 DUBBING OUT FOR RENDERING

- General: Correct substrate inaccuracies however the render should not be used to resolve gross irregularities in the construction.
- Thickness of any one coat (maximum): 25 mm in isolated patches up to 30mm.
- Total thickness (maximum): 25 mm, otherwise obtain instructions.

831A REINFORCEMENT

- The mesh should be cut into strips that will extend past the junction of dissimilar materials or point of weakness by 200 - 500mm and pressed evenly into freshly applied render with a trowel or spatula, ensuring that it is not in direct contact with the substrate, and then overlaid with further render to encapsulate the mesh. If using a **weberend aid** stipple coat it is better embedded in this application.

It is the design team overall responsibility to ensure the proposed Weber system is suitable for the building in question. Our liability is to ensure that system performs as stated within our literature & based upon installation to our recommendations.

Saint-Gobain Weber, Dickens House, Enterprise Way, Maulden Road, Flitwick, Bedfordshire, MK45 5BY

861A SCRAPED FINISH

- Finish: Scraped to expose aggregate and achieve an even texture.
- To achieve a flat level finish, passes of material should be applied in even thickness and levelled with a straight edge of suitable length. Regardless of the method of application (machine or hand) it is recommended that Weber levelling tools be used as part of the process. Specialist Weber serrated edges for levelling pral materials tend to be easier to handle and help to remove air pockets trapped in the wet render during application, particularly from hand application. The applied material should be ruled level and flattened with a spatula to allow for finishing. This should be done during application whilst the material is still workable. It is important to avoid over troweling of cement renders, as this will bring an excessive amount of cement laitance to the surface. This can create a harder surface to scrape when working with pral renders. Remove all trowel marks, and after partial take-up, scrape back 2-3mm to develop the final colour and texture required.

861B ASHLAR FINISH

- Finish: Scraped to expose aggregate and achieve an even texture.
- Mix and apply **weberpral M** to specified thickness - this will be 3mm more than finished thickness. Rule off with a straight edge to achieve satisfactory in-plane surface. Remove all trowel marks, and after partial take-up, scrape back 2-3mm to develop the final colour and texture required. 15mm minimum thickness must be achieved after ashlar cut - e.g. 10mm deep cut requires overall finished thickness of 25mm.

866A ROUGHCAST FINISH

- Finish: Left as cast with an even thickness and texture.
- The initial basecoat should be applied by machine at a thickness relevant to the exposure rating. Additionally, any variances in suction of the substrate should be unified particularly between the mortar joint and the block. The base coat should be ruled level and flat and then allowed to pick up for a period of between 1 and 2 hours before application of the second pass. The second pass, applied by render pump gives the textured finish to the desired effect. Various textures can be achieved from a Tyrolean fine finish through to a heavy roughcast effect. The process of achieving these textures is by lowering the pressure of the render pump for heavier textures and speeding up for finer finishes. Additionally the nozzle size of the spray gun can be varied to assist in these textures. A consistent texture is normally produced by moving the spray gun with a circular action, maintaining a regular distance and orientation between the nozzle end and the render panel. During the application of this pass a flowing edge must be maintained and thought should be given regarding potential obstructions when applying texture (design of scaffolding). The less number of interruptions to this operation will allow for the best finish.

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871A DRY DASH FINISH

- Coarse aggregate: To BS EN 12620. Well washed.
- size: 6mm.
- Type: weber dash.
- Application and finishing: Achieve firm adhesion to an even overall appearance. After throwing aggregate tap particles lightly into coating.
- Mix and apply **weberpral M** by render pump or traditional methods in the usual manner. For 15mm render thickness apply an initial pass to a nominal 10mm, rule level. When sufficiently hard but still green typically between 1 & 16 hours later depending upon climatic conditions and suction provided by the substrate apply a secondary butter/dash receiver coat 5mm in thickness. (Please note for a 20mm finished thickness apply a 15 mm initial pass, followed by 5mm under the same guidance). Attempting to dash into a full thickness of render, not applied in layers may lead to slumping and loss of the aggregate into the render. A flowing edge must be maintained to the render which must not be allowed to skin over before the stone is applied. On completion aggregate should be lightly tamped into the render with a wood or plastic float to ensure that a good bond is obtained. All aggregate should be washed and reasonably dry. The optimum size of aggregate is between 4 – 8mm.

880 CURING AND DRYING

- General: Prevent premature setting and uneven drying of each coat.
- Curing coatings: Keep each coat damp by covering with polyethylene sheet and/ or spraying with water.
- Curing period (minimum): As render manufacturer's recommendations.
- Final coat: Hang sheeting clear of the final coat.
- Drying: Allow each coat to dry thoroughly, with drying shrinkage substantially complete before applying next coat.
- Protection: Protect from frost and rain.

881A CURING AND DRYING

- Do not apply: If frost is forecast within 24 hours of use. In damp/wet conditions. In temperatures below 5°C or above 30°C On elevations in direct sunlight or where the substrate is hot. Curing with a fine spray of clean water may be necessary during rapid drying conditions. In hot climates, curing as above is essential for 3-5 days after application.

It is the design team overall responsibility to ensure the proposed Weber system is suitable for the building in question. Our liability is to ensure that system performs as stated within our literature & based upon installation to our recommendations.

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Application Guide

1.0 GENERAL

1.1 MATERIAL HANDLING FOR **weberpral** PRE-BAGGED CEMENTITIOUS PRODUCTS

weberpral cementitious products are made to Weber formulations using ingredients of their approval. Consideration shall be given to the health and safety guidance with regard to cementitious materials. Material safety datasheet are available on request from Weber Additives must not be added without specific approval as it will invalidate any guarantee with regard to the **weberpral** material. **weberpral** cementitious products are available as factory batched, dry bagged mortar mixes, ready for use simply by adding water.

1.2 STORAGE

Dry bagged factory batched products must be stored off the ground and protected from the weather. All contain cement and are therefore made useless if affected by dampness. Manufacturers use stretch wrap on pallets of material to provide stability during transportation. It should not be relied upon to protect materials against wet weather.

The material required for complete and adjoining panels should all be from the same batch number or be thoroughly dry mixed together before use.

Stored under proper conditions, dry-bagged **weberpral** products have a shelf life of 12 months.

1.3 WATER REGULATION

Any water used for mixing of renders should be clean and free from contaminants. (i.e. potable). The water supply must be freely accessible throughout the project. Note that when applying by pump some machines require connection to a dedicated, uninterrupted supply. Failure in that supply will stop application.

1.4 WEATHER CONSTRAINTS

COLD

- Don't work with frosted materials or on frosted substrates.
- Don't use cementitious materials unless temperature is 5° Centigrade and rising.
- In cold weather, if frost is forecast, stop work in time to allow the material to set sufficiently to prevent frost damage. The drying conditions will vary according to wind, temperature and humidity and may take several hours.
- In frosty weather where minimum temperature conditions cannot be met work can only proceed when suitable protection is provided and the temperature raised.

HOT

- In extremes of hot weather avoid working on elevations subject to direct sunlight or walls, which will become sunny during the application. Apply material preferably after direct sunlight has passed elevation/panel.
- Too rapid dehydration will cause a cementitious material to fail. When rendering use water spray to damp-down walls thoroughly prior to application to control suction, and shade from direct sunlight.

WET

- Don't work during rainfall or if rainfall is anticipated during initial set unless full protection is provided.
- Don't allow rain to strike newly applied material, particularly if strong colours have been chosen for rendering.
- Don't render on saturated backgrounds as this can impair bond strength and cause unsightly lime bloom to occur.
- The sorptivity (suction property) of the background is critical and if there is doubt as to the amount of water in the substrate, sample panels should be carried out on trial areas to determine the effect on the render.
- Backgrounds containing an excessive amount of water are more likely to give problems where work has been stopped for a period due to inclement weather.

2.0 SUBSTRATES

All substrates should be clean, suitably dry, sound and free from anything that may interfere with the adhesion, such as oil, grease, organic matters and soluble salts.

The substrate, including joints, must be of equal strength or stronger than the render and should be able to adequately support and restrain it.

Good adhesion of a render is dependent on good porosity of the substrate. If the suction is too high the render will not hydrate sufficiently. If it is too little there will not be a good bond.



Blocks that are fair faced or paint grade should always cause concern due to their smooth face. To ensure a good bond the substrate should have an open texture or utilize a key coat **weberend aid**

Blocks are the equivalent in surface area to six bricks, raking the joints is not an option to provide key for render.

2.1 ULTRA LIGHTWEIGHT MASONRY CONCRETE BLOCK

Up to 950kg/m³ with a compressive strength of 3.6 - 7.3N/mm² greater emphasis is on the design and management of movement. However from an application perspective suction control will be required by lightly spraying with a fine mist of clean water evenly before the render is applied. Saturation should be avoided as this will cause excessive shrinkage.

2.2 MEDIUM MASONRY CONCRETE BLOCK

1350 to 1450kg/m³ with a compressive strength of 3.6 - 7.3N/mm² Suitable to receive a direct application of render.



2.3 LOW DENSITY AIRCRETE

480kg/m³ with a compressive strength 2.9 - 3.6N/mm² not suitable for **weberpral** rendering

2.4 NORMAL DENSITY AIRCRETE

530 - 810kg/m³ with a compressive strength of 3.6 - 9.0N/mm² suction control will be required by lightly spraying with a fine mist of clean water evenly before the render is applied. Saturation should be avoided as this will cause excessive shrinkage and will prohibit bond in this instance.

Note: We are aware that some blockwork is progressively being formulated with varying quantities of recycled materials. These recycled materials can dramatically affect the water absorbency of the block with extreme examples absorbing twice the water volume over a short period. For this reason it is imperative that due care is taken to protect blockwork from the weather in both storage and construction. These blocks often appear similar in appearance to standard masonry. It is therefore essential, prior to rendering, that a suction assessment should be undertaken to ascertain the level of absorbency within the blockwork. Should the level of absorbency be deemed as high, action will be required. In normal circumstances careful controlled dampening with water may suffice, however in more extreme cases an application of **weberend aid** would be needed. If in doubt please contact Weber Technical Services on 08703 330070

3.0 CRACK CONTROL FOR CONSTRUCTION

3.1 GENERAL

weberpral materials are manufactured from carefully selected and graded aggregates to minimise drying shrinkage of the applied render. Providing that good practice, appropriate design and suitable preparation is undertaken, the rendering will be fully bonded to the substrate and restrained from movement by that surface and will not crack. It is therefore most important that stress/crack control be considered prior to construction in order to reduce the likelihood of cracking.

When the construction is correctly divided into appropriate panels separated by suitable movement joints, the stresses caused by drying shrinkage and normal building movement will dissipate to the detailed relief joints. Movement joints are not a requirement in the render alone as this is fully bonded to the substrate. They should however, reflect and follow through from the relief joints detailed in the construction.

3.2 MOVEMENT JOINTS

The use and placement of movement joints is essential to avoid cracking. Guidance on the placement of movement joints should be obtained from the specified block manufacturer. This advice should be used in conjunction with BS EN 1996(EC6) Code of practice for design of masonry, BS 6093:2006 + A1:2013. Code of practice for design of joints and jointing in building construction and the Concrete Block Association's guide to movement control. The main areas to include movement joints are as follows, however this will vary depending on the type of block and construction type:

- Changes in the wall height or thickness
- Changes of loading
- Abutments of walls and junctions with dissimilar materials
- Zones that are 1 to 3 metres from corners
- Up to every 6 metres for unreinforced blockwork
- To break up masonry panel so they do not exceed a length: height ratio of 3:1

The adequate use of movement joints will help reduce stress build up in the substrate and thus reduce the risk of cracking. Movement joints must also be followed through the render.

3.2 BED JOINT REINFORCEMENT

Mortar bed reinforcement can be used to reduce the frequency of movement joints as well as improving the lateral stability of the wall. However, mortar bed reinforcement is not a substitute for using movement joints. The examples below show how movement joint frequency can be reduced when using mortar bed reinforcement:

- If a movement joint is planned for every 9 metres, mortar bed reinforcement will be needed every other bed joint i.e. 450mm for the entire 9 metre length.
- If a movement joint is planned for every 12 metres, mortar bed reinforcement will be needed every bed joint i.e. 225mm for the entire 12 metre length. Where there are slender panels or panels with large openings, extra mortar bed reinforcement should be considered.
- Include mortar bed reinforcement in the two courses above and below openings such as windows to dissipate the extra stresses created around these typical weak zones.



4.0 CONSTRUCTION ISSUES

4.1 ALIGNMENT OF BACKGROUND

The background construction should be sufficiently true, in line and plumb to accommodate the product specified and its constraints. The render alone should not be used to correct gross irregularities. As a guide, the maximum that can be achieved is a correction of a deviation of 5mm underneath a 2m straight edge placed anywhere on the surface of the substrate.

4.2 CURING OF CONSTRUCTION

It is important that a freshly constructed substrate be allowed to cure properly before the application of any render materials. If the substrate is not fully cured, creep and shrinkage of the background can occur. This could result in the formation of cracks in the substrate, which will more than likely be reflected through into the render material. It is recommended that the substrate be allowed to cure for a minimum of 28 days before the application of render.

4.3 CLEANLINESS OF SUBSTRATE

Substrates to receive render must be clean, sound and dry. The construction must be free from oil contamination, dust, fungal growth, crystallised salts and any other factors that may impair the adhesion of the applied system or form a weak intermediate layer. Fungal or algae growth can be removed using a wash of **weber CL150**.

4.4 MOISTURE CONTENT OF SUBSTRATE

Temporary protection should be in place to prevent saturation of the building components during storage and construction, heightened levels of moisture will intern increase drying shrinkage of the construction. Temporary down pipes should direct water away from the wall throughout the project. Saturation of the substrate can mobilise any salts that it contains and allow them to pass to the face of the background. It will also encourage algae/fungal growth. Both of the above will have an adverse effect on the bond between the substrate and the render. In addition, saturation of the substrate will prolong the drying and curing of the applied render increasing the likelihood of limebloom (efflorescence) on the finished elevation and allow adverse environmental effects such as freeze/thaw to take place.

4.5 PROTECTION OF CONSTRUCTION

A building fabric exposed to rain and allowed to become saturated will be subject to a greater amount of movement due to drying shrinkage than one that is protected from the elements. This will put additional strain on the building envelope increasing the risk of cracking within the substrate, which will inevitably be reflected in the applied render.

Protecting elevations during the construction programme has the additional benefit of helping to enable application to continue during inclement or cold weather.

4.6 BUILDING FITTINGS

Before rendering is started on an elevation, all the major building components must be fitted. This includes copings, cappings and flashings, windows and doors, soffits and fascias etc. The fittings must be detailed to protect the finished render from staining due to localised water run off. Flue pipes, air bricks and weep holes should also be in final position prior to the application of render to remove the need to breakout and repair finished render after their installation. Repairs in finished render often result in differences of appearance compared to main wall areas and are often visible on completion.

4.7 SCAFFOLDING

Scaffolding should be tied independently to avoid the necessity for render repairs after completion where the scaffold has been tied to the wall. It should be erected with the physical process of render application in mind. Full access should be available between scaffold and the wall to enable a continuous wet edge of material to be maintained across the complete bay/elevation. Both standards and ledgers should be spaced sufficiently away from the wall to allow applicators to handle straight edges or pumping equipment without obstruction.

Specifically In the case of Roughcasting texturing process it is imperative that sufficient distance is allowed to form the finish. The distance between the boards and walling typically needs to be 220mm.

Note: With the above in mind, current HSE guidance regarding scaffold safety should always be followed. Scaffold should only be erected or modified by certified scaffolding personnel.

5.0 ARCHITECTURAL DETAILING

5.1 GENERAL

With regard to detailing, there are two main considerations. The vulnerable part of any render is the vertical bond to the wall. Isolated run-offs of water from sills, weep hole details and the like are likely to lead to staining over a period of time especially in areas where the atmospheric conditions are polluted. All detailing therefore has to protect the vertical bond interface and throw water away from the wall.

Careful design is required at the base of walls to prevent the rendering bridging the damp proof course (DPC). A bell cast feature will assist in the shedding of water and providing a drip. The DPC should never be bridged, as doing so will allow water to track up behind the render face. In addition to the DPC detail, consideration should be given to the use of a French drain at the base of the wall to prevent splash back staining the completed render and promoting fungal/algae growth. A minimum of 150mm should be allowed between the base of the render and ground level.

5.2 THICKNESS OF RENDER

Exposure of buildings are calculated with the following method defined in cycles of wet and drying conditions called spells and measured in litres/m²/spell. As part of the process, consideration should be given to location, orientation and surrounding environment, such as exposure to the force of wind and rain combined with protection from overhangs or surrounding buildings. Categories of exposure are defined into...

1. Sheltered
2. Moderate
3. Severe
4. Very Severe

For sheltered to moderate exposure it is recommended that the minimum finished render thickness is 15mm, for severe elevations then a 20mm thickness is in order. Acceptable tolerances are plus or minus 2mm, so this should be reflected in the nominal applied thickness. The minimum thickness should be achieved at the lowest point to provide the correct level of weather protection. This should be accounted for in any design relative to Ashlar Cutting. The maximum finished thickness for **weberpral** materials should not exceed 25mm unless forming feature bands, keystones or quoins.

5.3 FORMING FEATURES & STOPS

It is a necessity to form render features with the minimum required finished thickness of render specified relevant to the exposure of the façade. The temporary rule or bead is used to set the intended render thickness and thus work as a guide and former to the operatives.

5.4 HORIZONTAL STOPS & DRIPS

It has become progressively more common to maintain render alignment in a single plain and thus so not to form features where the render bells or sweeps away at points where the render terminates such as above openings or at the damp proof course height.

From a Weber perspective we would not foresee this to be an issue particularly if the building is located in a sheltered to moderate exposure. Thus so not in category of wind driven rain classified as severe or very severe this issue has less significance. It is also worth noting that although it is technically feasible to create a bell / sweep with scraped finished renders in reality it is practically difficult to maintain a consistency of the detail across a run of an elevation, particularly relevant on a continuous run across an elevation such as DPC line.

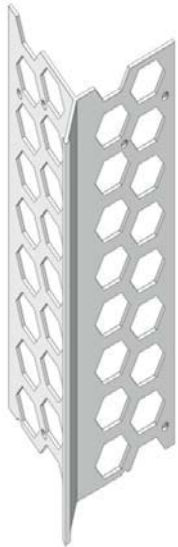
For horizontal stops it is imperative that a profile bead forms a drip (not a stop at a 90 degree angle).



cont..../

5.0 ARCHITECTURAL DETAILING cont...

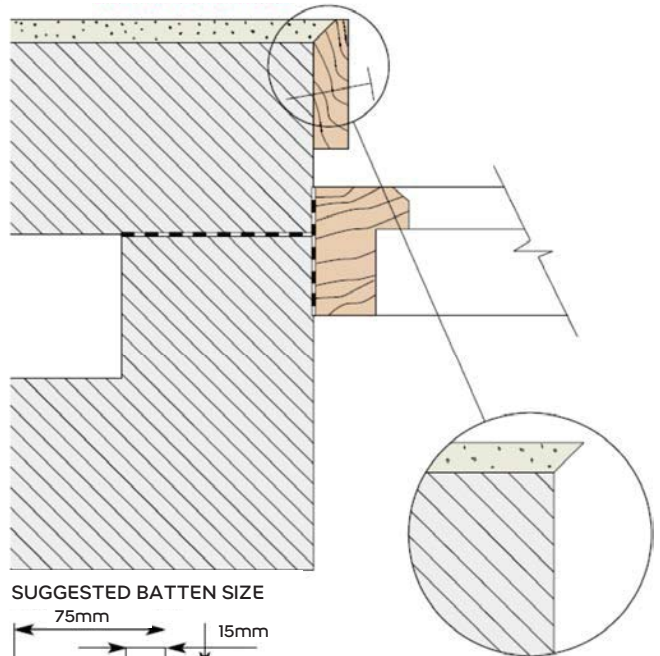
5.5 ARRISES



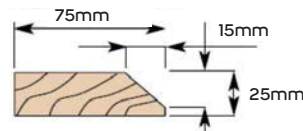
Angles in Ashlar and roughcast finishes can be formed by splayed timber rules that are temporarily fixed during application. This method is a necessity for Ashlar work as profiled beads will interfere with the continuity of the Ashlar joint.

For Scraped Finishes the design of UPVC Y section profiles ensures the render thickness is maintained all the way around the arris as opposed to the traditional metal design which diminishes the render thickness down to 3mm at the point of the nosing. This often leads to unsightly spalling.

USING BATTENS FOR ARRISES



SUGGESTED BATTEN SIZE



BATTEN REMOVED FOR APPLICATION OF REVEAL WHEN MATERIAL SUFFICIENTLY HARD

5.6 MOVEMENT JOINTS



The traditional method of expressing a movement joint is with the use of 'greased' temporary battens to create the joint in the fresh rendering. The formed joint is then filled with a suitable elastomeric sealant after rendering. This method is recommended for Ashlar work where the cut detail may pass through the movement joint position. In all other finishes, the use of proprietary sealed movement beads is acceptable.

5.7 VERTICAL STOPS



Temporary timber battens can be used to form stops and bellcast details, particularly when Ashlar work is specified. For all other finishes use of proprietary profile beads.

cont..../

5.0 ARCHITECTURAL DETAILING cont...

5.8 FIXING PROFILE BEADS

Fix the beads with **weberend bead adhesive**. This method provides the applicator the ability to align the beads to the desired level and thickness. Please note it is not good practice to fix the beads by just troweling render over the wing of the bead. Do not use Gypsum based products for this purpose, this will result in a breakdown of the render bond.

For adhesion purposes dabs of bead adhesive should be applied directly to the virgin substrate at a minimum of 300mm centres apart. A dab constitutes of a bed of material to width of the bead wing (40mm), it should be approximately 100mm in length and to a minimum thickness of 15mm. Continuous dabs can be used when additional support is needed when attempting to correct minor misalignment of the construction. Press the bead firmly into the freshly applied dabs with a trowel; ensuring the bead wing is fully embedded. Trowel the excess material away as you fix the bead (please note the bead adhesive needs to be set back from the nose of the profile to ensure render coverage of at least 10 to 12mm).

The bead should be set sufficiently in a maximum of 2 hours at 20°C. However please note the substrate type will have an impact on the setting time of the product, particularly relating to its suction. In addition the ambient conditions may also have an impact. Once mixed use within 30mins, do not attempt to extend the pot life by adding additional water. Please note **weberpral** monocouche render can be used as an alternative bead fixing material.

5.9 PANEL SIZES

In theory, panels of any size can be successfully completed providing there are enough applicators available. It is important to have a suitable number of operatives in proportion to the panel size that will enable a flowing wet edge to be maintained in applied material across the entire panel. The use of a render pump will increase speed of application and productivity in comparison to traditional methods of application. The machine will also give a more consistent output over that of a manual application. However, with renders that require manual finishing techniques, e.g. scraped textures and Ashlar, it is important to consider how the area can be finished within the open time of the product.



Application areas should therefore be limited in relation to the resources available to finish them. Consideration should be given to the rendered work so that any panel and those adjacent to it can be completed in a progressive sequence. This will help to avoid long delays between finishing dates, which in itself may contribute to differences in appearance between the panels. Any changes in application procedure, due to differences in climatic conditions for example, can result in shade variation between rendered bays. Whenever possible the panels should be finished on an external angle.

6.0 PREPARATION

6.1 SUCTION CONTROL

The suction of a substrate has implications on the finish, performance and the workability of the product applied. It is therefore important that an assessment of the suction is made prior to the application of material. The substrate should be tested to identify its initial suction. This can only be done by the visual inspection of water applied to the surface. Ideally the substrate should slowly draw the water into the surface leaving a wet residue.



If the test reveals the suction to be high (i.e. water disappears at a rapid rate leaving an apparently dry surface) then the substrate should be dampened evenly with a light spray of clean

water, re-tested and the process repeated until the correct suction is achieved. During this process, over wetting must be avoided to prevent impairing the bond of the render and possible increases in drying shrinkage in the construction due to saturation.

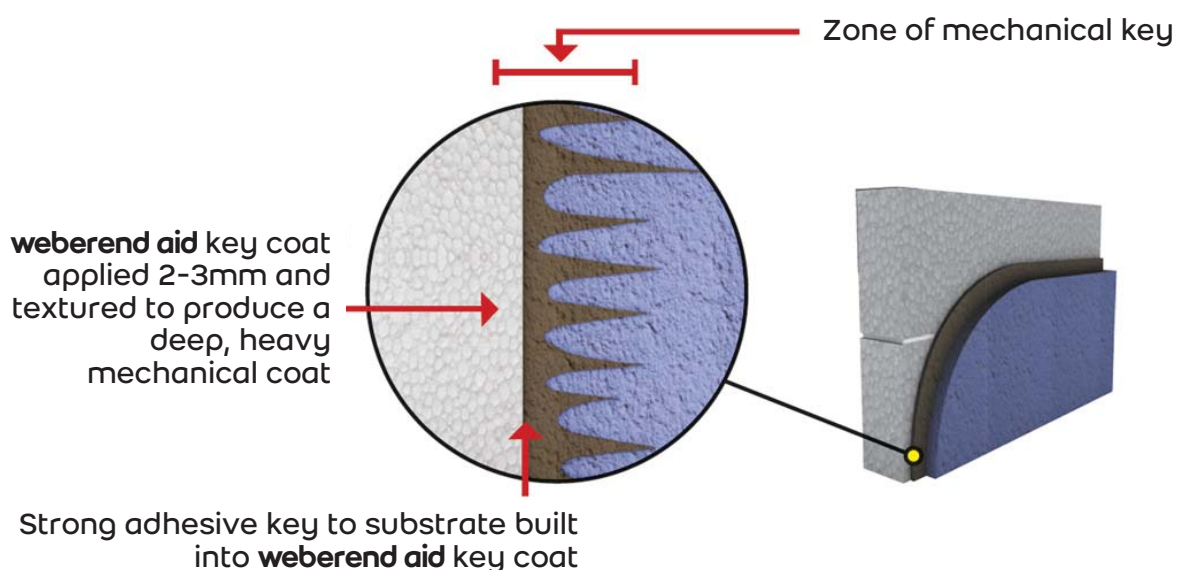
If there is a combination of issues, such as varying suction then an application of **weberend aid** is in order.

6.2 KEY COAT

weberend aid propriety mix designed to be used as an adhesive stipple pre-treatment.

By volume mix three parts of **weberend aid** with one part clean water using a suitable drill and whisk attachment. With a hawk and trowel, apply a tight layer 2–3mm thick to the substrate. Texture the surface using a well loaded roller. Apply no more than 2–3m² before texturing.

It is important that the final texture achieved should be a deep, heavy stipple finish with a textured depth of 5–10mm. Leave to cure for 48hrs. Insufficient key will inhibit the render bond; this is particularly relevant on low suction substrates where capillary absorption is minimal.



cont..../

6.0 PREPARATION

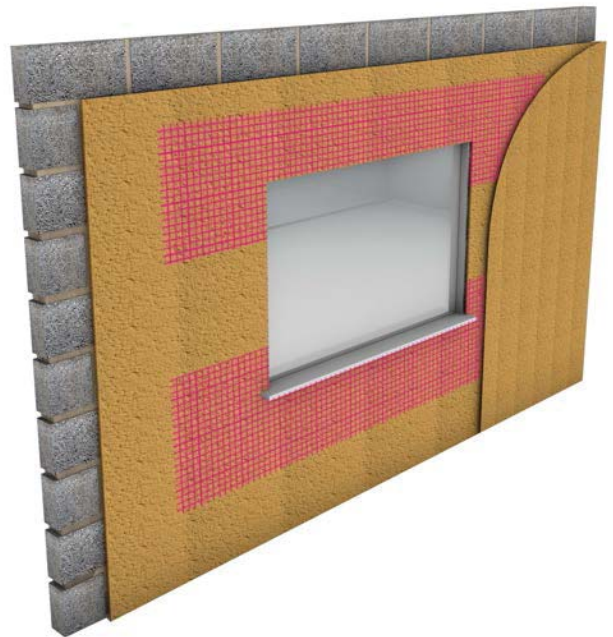
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6.3 MESH REINFORCEMENT TO **weberpral**

The ability of the render to resist cracking and spread any stresses transmitted from the substrate can be increased by the inclusion of pink **weber standard mesh cloth**, alkali resistant fibre mesh, in the render in areas of typical stress points in the construction, i.e. above and below all openings such as windows and doors and at horizontal junctions of dissimilar substrates e.g. ring beams.

Mesh should be cut into strips that will extend 500mm x 250mm = H X L past the point of perceived weakness. Note the positioning of the mesh is critical within the render thickness; no contact should occur with the substrate; likewise to avoid mesh being exposed in the scraping process it needs to be located mid thickness in a zone of the first 5 to 10mm of the total render coat.

The mesh should be pressed evenly into a freshly applied pass of **weberpral** using a trowel or spatula. The mesh must be encapsulated in a wet on wet process to achieve the monolithic bond of the subsequent pass of render. Mechanically fixing the mesh is not in order and will impair the bond of the render to the wall. It is not a carrier lathing. Press evenly into the freshly applied render with a trowel or spatula.



7.0 SITE ORGANISATION & APPLICATION OF weberpral

7.1 SETTING UP THE PREPARED SUBSTRATE

Masking products should be used to give protection to adjacent work and to give clean straight edges. It should be removed immediately after finishing. During this process consideration should be given to the protection of glass and aluminium surfaces. Splashes of cement products can lead to surface etching and synthetic materials are not easily removed.

7.2 MIXING weberpral MATERIALS

Materials delivered to site should be stored off the ground and protected against the weather.

Manufacturers use stretch wrap on pallets of material to provide stability during transportation. It should not be relied upon to protect materials against wet weather. The material required for complete and adjoining panels should all be from the same batch number or be thoroughly dry mixed together before use.

The key methods of mixing for **weberpral** products are as follows:

- Render pump
- Drill and whisk/paddle

weber accélérateur monocouche is a liquid component that is used to replace a proportion of the gauging water in the mix. This product is not an anti-freeze however will speed up the initial set time to replicate the same setting as would be typical during summer months. If the correct dose is added it is anticipated that a 20°C scrape time will be achieved when working at 5°C. This will leave the products less susceptible to Lime Bloom.

When mixing the following should be considered:

- Use only materials directed in correct quantity.
- Discard suspect materials, which are damp or contaminated.
- Measure and maintain by volume proportion of gauging water.
- Don't over mix. Only mix sufficiently to combine materials - then use immediately.
- Once material has been mixed do not attempt to re-temper it to a workable consistency by adding more water.

7.3 APPLICATION OF WET MATERIALS

weberpral renders are full thickness renders applied in either one or two passes designed to hydrate together as one monolithic coat. The thickness of the passes is determined by the method of finishing and upon the chosen means of application. As an example; for a 15mm finished thickness, a single 18mm pass can be applied with a machine in one application. By hand, this same thickness would be achieved by the application of two 9mm passes (on average). The initial pass in this instance would normally be allowed to gel prior to the second pass. In areas of high stress (i.e. around a door or window opening) the reinforcement mesh can be added into the fresh initial pass. It is important to note that to ensure a finished monolithic render, application the second pass is generally applied within an hour of the initial pass depending on conditions.

With scraped finishes the final pass must not be less than 8mm as otherwise it is likely you will expose the cement rich interface between the passes produces a 'halo' ring effect'.

cont.../



7.0 SITE ORGANISATION & APPLICATION OF weberpral

7.4 RULING OFF/LEVELLING OF RENDERS

To achieve a flat level finish, passes of material should be applied in even thickness and levelled with a straight edge of suitable length. Regardless of the method of application (machine or hand) it is recommended that levelling tools be used as part of the process. Specialist serrated edges for leveling **weberpral** materials tend to be easier to handle and help to remove air pockets trapped in the wet render during application, particularly from hand application.



The applied material should be ruled level and flattened with a spatula to allow for finishing. This should be done during application whilst the material is still

workable. It is important to avoid over troweling of cement renders, as this will bring an excessive amount of cement laitance to the surface. This can create a harder surface to scrape when working with **weberpral** renders.



7.5 SCRAPED FINISH

Between 5 and 16 hours after application, depending on weather conditions, renders will be ready to scrape finish.

In Weber's experience the render is ready to be scraped when 2-3mm of material can be easily removed without clogging the scraping tool. Scraping the product early within the set will create a deeper texture and give the appearance of a darker colour shade. Scraping too late in the set will give the appearance of a much lighter colour shade.

Within the 5 – 16 hours after application there is on average a 2 – 3 hour period within the set where the product is ideal for scraping. This point of material set should be kept consistent throughout the works, and especially adjacent panels, to avoid colour variation. The surface should be scraped with a circular action keeping the scraper flat and under even pressure to avoid scoring the finished surface. Excessive pressure during scraping should not be required.

Ensure the surface is thoroughly scraped, as any missed areas will dry to a much lighter shade and become evident in the finished work. This effect is referred to as 'misses'. During the finishing of scrape renders, undulations (high points) created during application can be removed with an I-section scraping tool. This is particularly relevant for ashlar finishes, as the feature lines may highlight any undulations in the surface.



cont.../



Maintenance



7.0 SITE ORGANISATION & APPLICATION OF weberpral cont...

7.6 SPRAYED ROUGHCAST TEXTURE

Note from experience it is essential that a batch mixing pump is employed for successful texturing. The initial basecoat should be applied by machine at a thickness relevant to satisfy the exposure rating. The base coat should be ruled level and flat and then allowed to pick up for a period of between 1 and 2 hours before application of the second pass.

The second pass, gives the textured finish to the desired affect. Various degrees of textures can be achieved from a Tyrolean fine finish through to a heavy roughcast effect. Regardless of texture chosen it is imperative that the combined final thickness of the render at its lowest point relates to the exposure rating. Due to extensive choice of different textures it is advisable to prepare an on-site sample for client approval prior to commencement of works.

The process of achieving these textures is by lowering the pressure of the render pump for heavier textures and speeding up for finer finishes. Additionally the nozzle size of the spray gun can be varied to assist in these textures. A consistent texture is normally produced by moving the spray gun with a circular action, maintaining a regular distance and orientation between the nozzle end and the render panel. During the application of this pass a flowing edge must be maintained and thought should be given regarding potential obstructions when applying texture (design of scaffolding). The less number of interruptions to this operation will allow for the best finish. Regardless of texture chosen it is imperative that the combined final thickness of the render at its lowest point relates to the exposure rating. Due to extensive choice of different textures, it is advisable to prepare an onsite sample for client approval prior to commencement of works.



7.7 ASHLAR DETAILING (SCRAPED FINISHES)

Directly after scraping and before brushing the elevation ashlar lines can be formed with reference to the guidance below:

- The required ashlar profile should be chosen to reflect the depth in relation to the thickness of render
- The ashlar lines should be set out from a datum line. It is important not to use string courses or plinths as reference points
- Avoid ashlar lines to the corners of windows or in line with window details.



weberpral Monocouche Render Aftercare & Maintenance

We hope you are enjoying your new home, it has amazing kerb appeal with a fantastic façade, so what do you have to do to keep it looking great and performing to the highest standard? **weberpral** monocouche render is traditionally low maintenance but to ensure the optimum life and aesthetics please follow the guidelines detailed below...

Cleaning

weberpral render may be cleaned periodically with the use of a pressure washer incorporating a mild detergent or road traffic film remover in water. The spray pattern should be adjusted to form a fan rather than a jet and care must be taken at the exposed edges. The interval between treatments is purely dependant upon the amount of ground floor pedestrian 'traffic' and local atmospheric conditions. Organic growth should be brushed off the surface and subsequently treated with **weber CL150**.



Damage & Repairs

weberpral render is a through-coloured material and as such small knocks and abrasions will not be as noticeable as with traditional painted renders. Once applied, **weberpral** products are finished materials and repairs are always likely to be visible. For this reason we would, in general, recommend that full panels be removed and replaced. For more information on this please contact...

technical@netweber.co.uk

Cracks

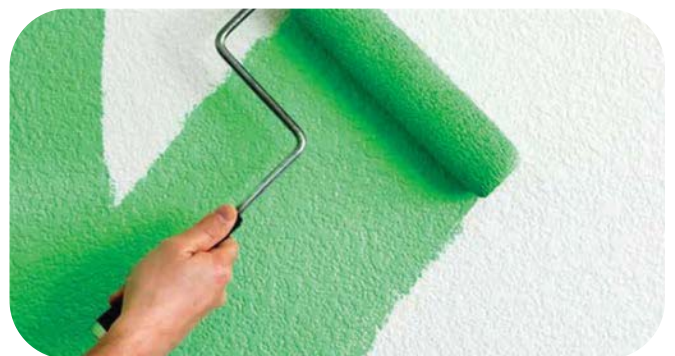
Straight line cracking is not typical of render failure, but rather of the reflection in the render of a crack in the substrate. The cause should be investigated prior to repair in order to ascertain the likely event of any further movement or whether remedial works are required. This assessment should be undertaken by a structural engineer.

Painting

webersil P is a high performance paint that gives exceptional long term durability and performance. It is anticipated that the use of this product will not detract from the low maintenance benefits of the **weberpral** render. Providing that the render is clean, dry and sound, a direct application of **webersil P** is appropriate. For more information on this please contact... technical@netweber.co.uk

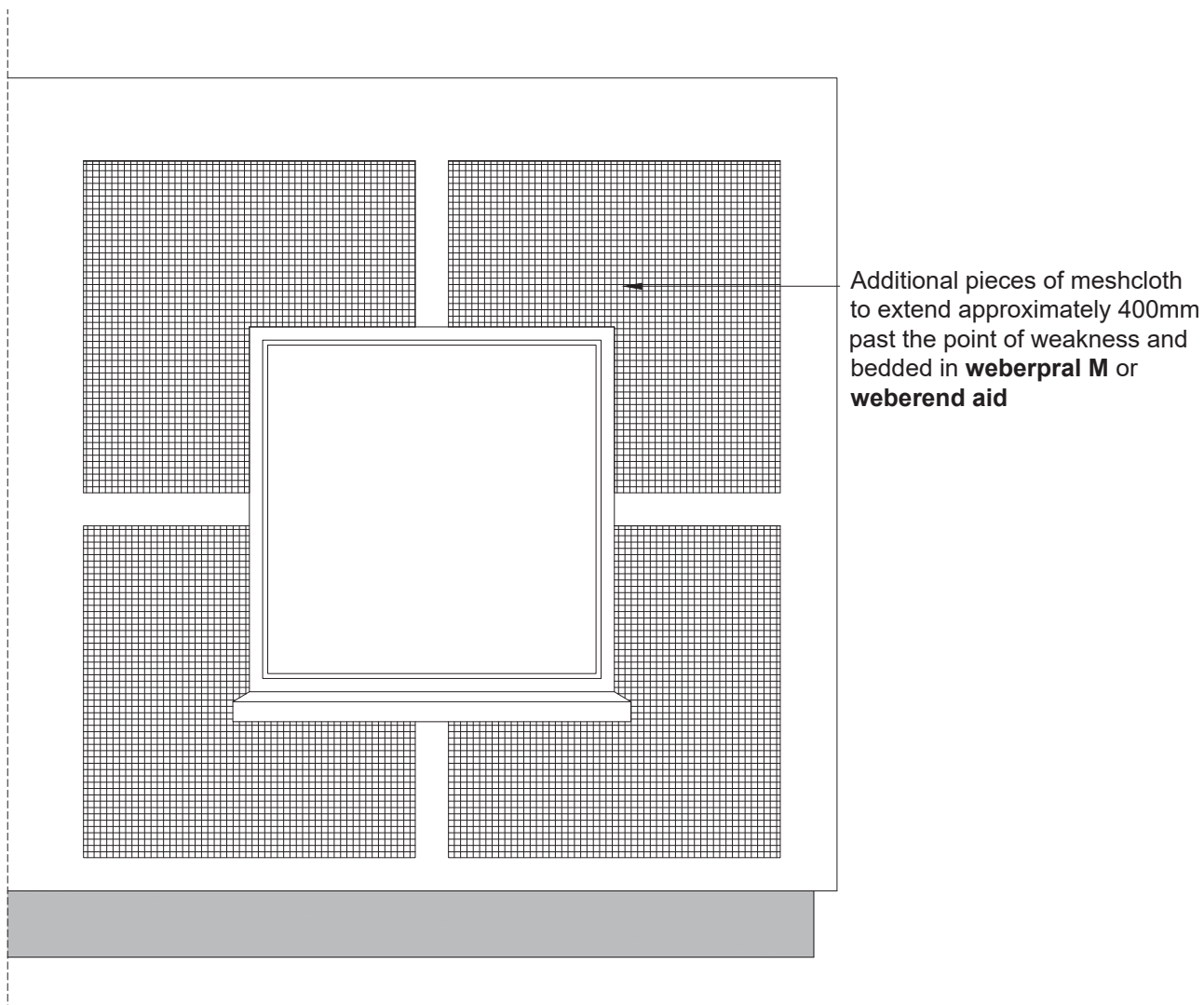
Inconspicuous cracks that remain dry and sound are usually best left alone. Cutting and repairing, however carefully done, invariably results in some differences in appearance over the area of the repair.

webersil P is manufactured in a wide range of colours. It is not possible to directly match a synthetic product to a mineral render. This is particularly prevalent in the case of coloured renders as there are many influencing factors surrounding the application that will affect the final cured shade of colour.



Typical Details





weberpral M

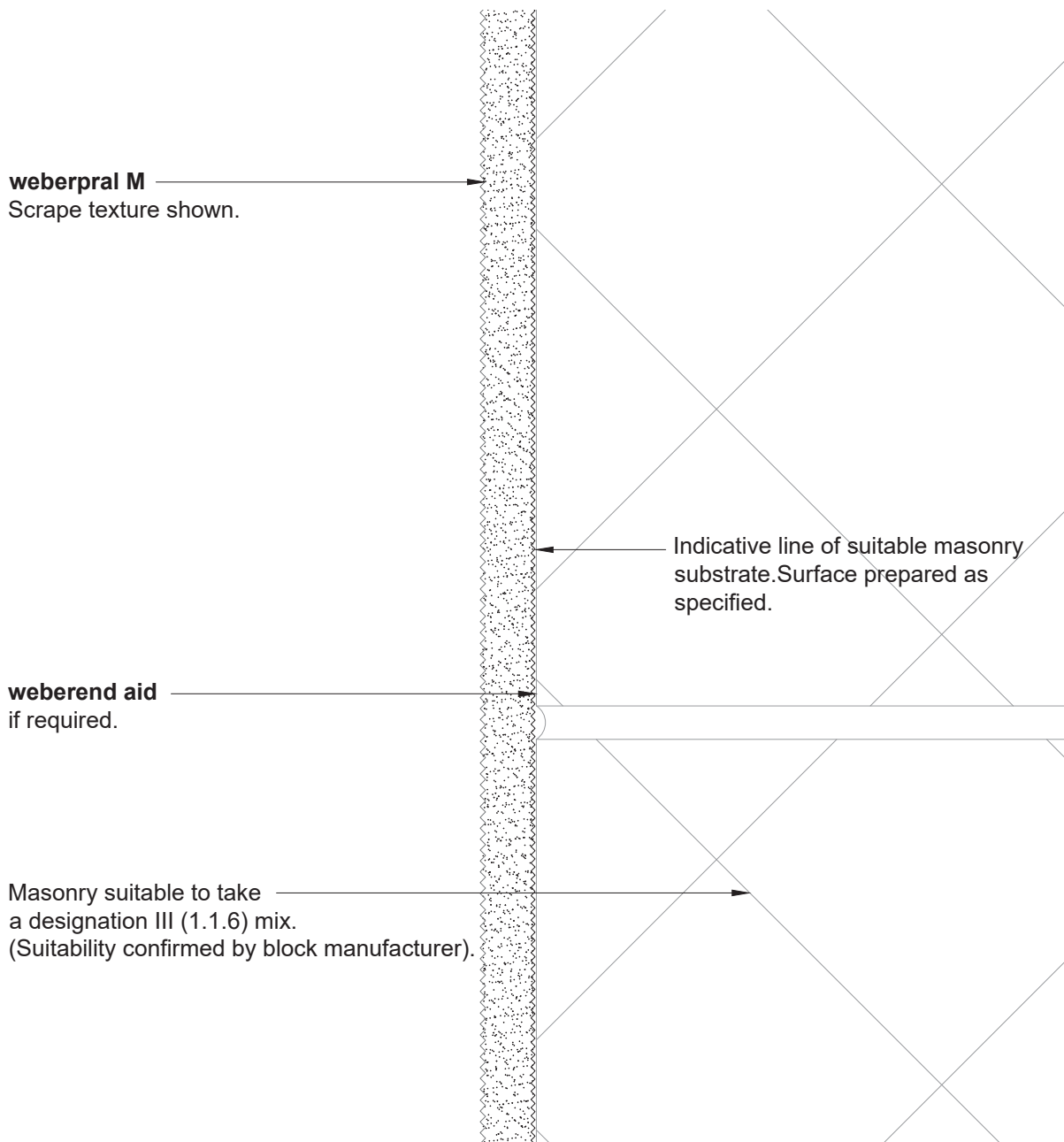
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Mesh Reinforcement At Opening.	Drn	CDH	Chkd	SPEC
				No	M -00-01

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NOTE:

Unbroken panels of render should be limited to 45 - 50sq.m.
Aspect ratio to be no greater than 4:1.

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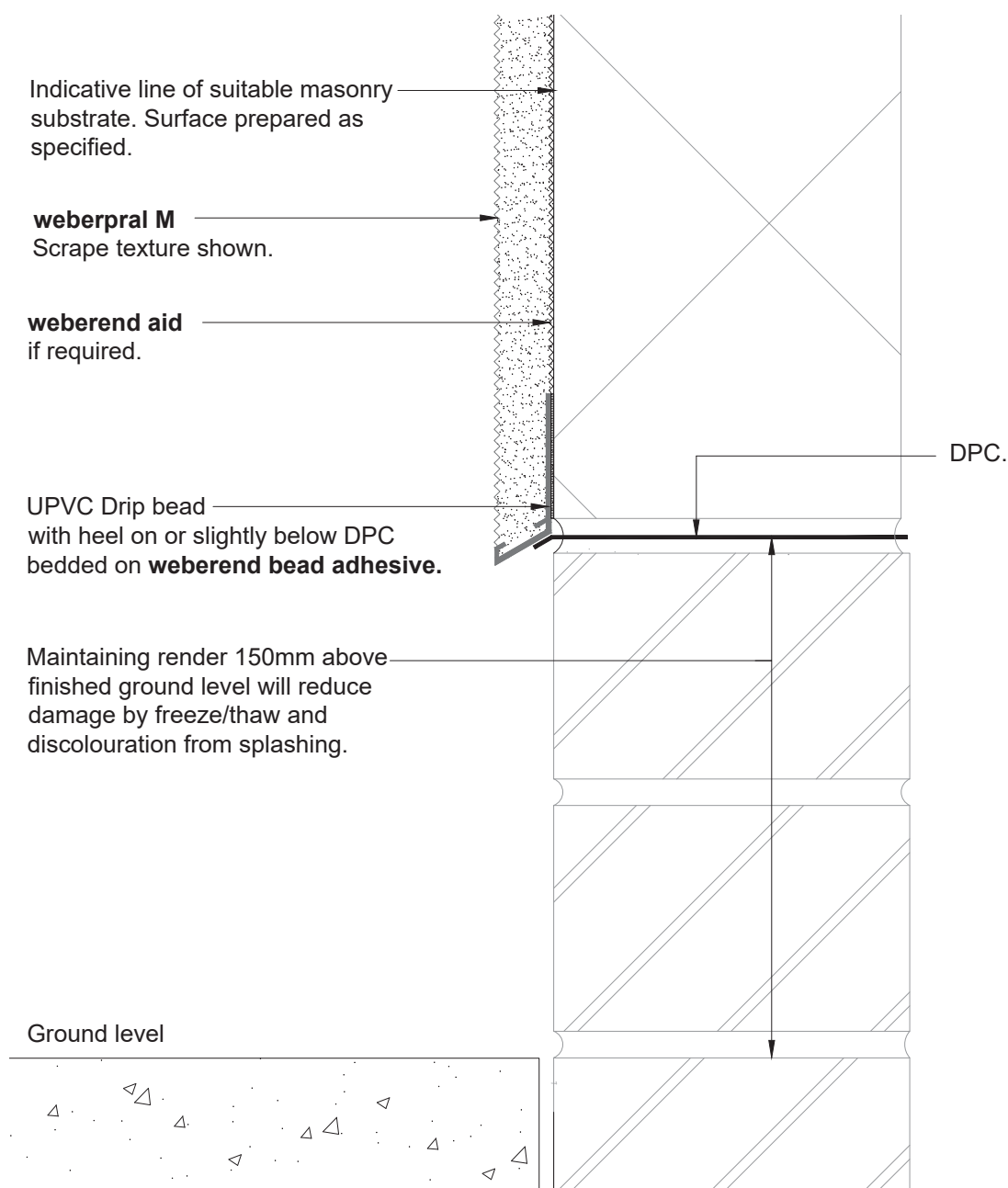
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Main Wall	Drn	CDH	Chkd	SPEC
				No	M -01-01

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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - UPVC Drip at Base	Drn	CDH	Chkd	SPEC
				No	M-02-01

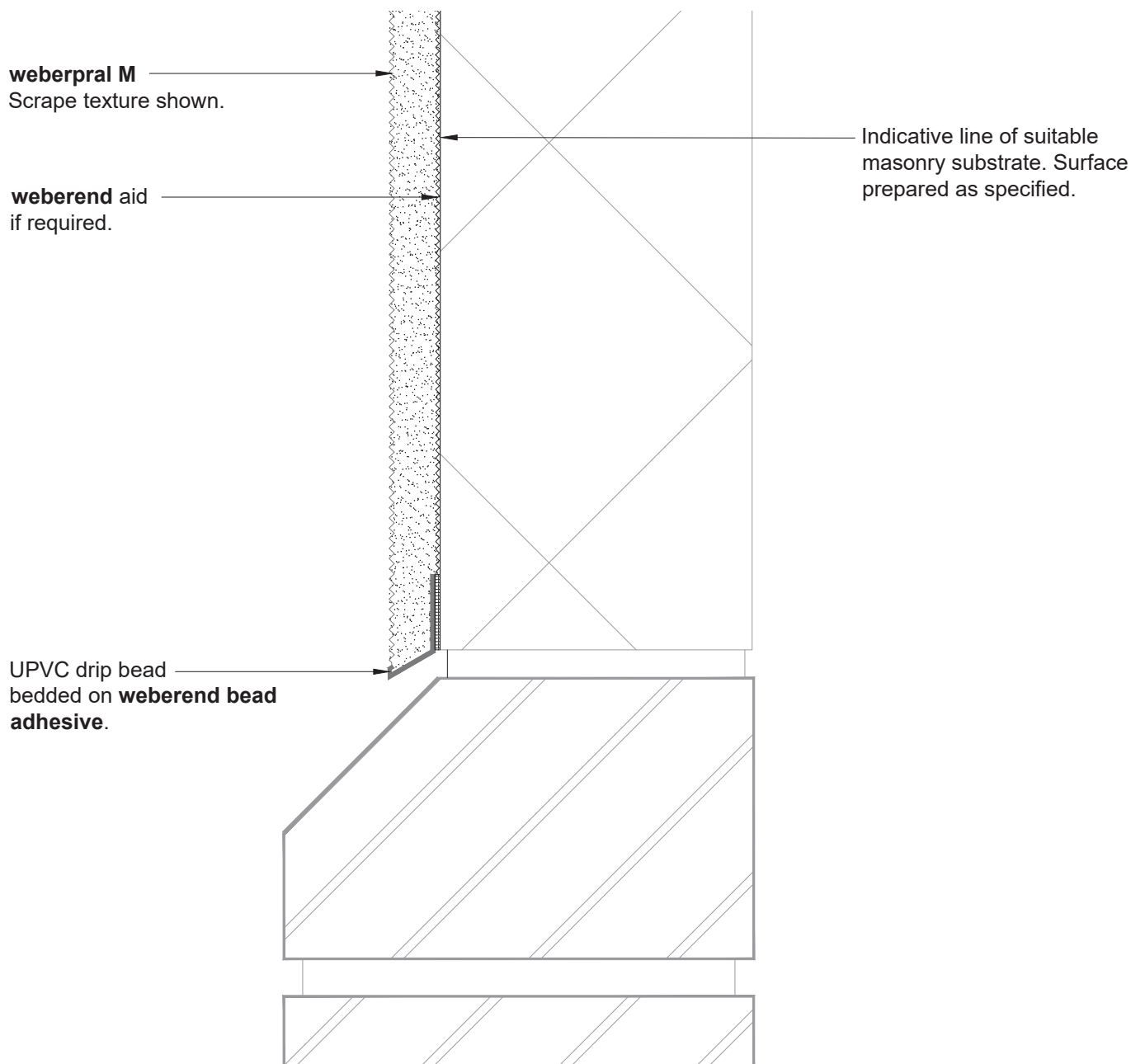
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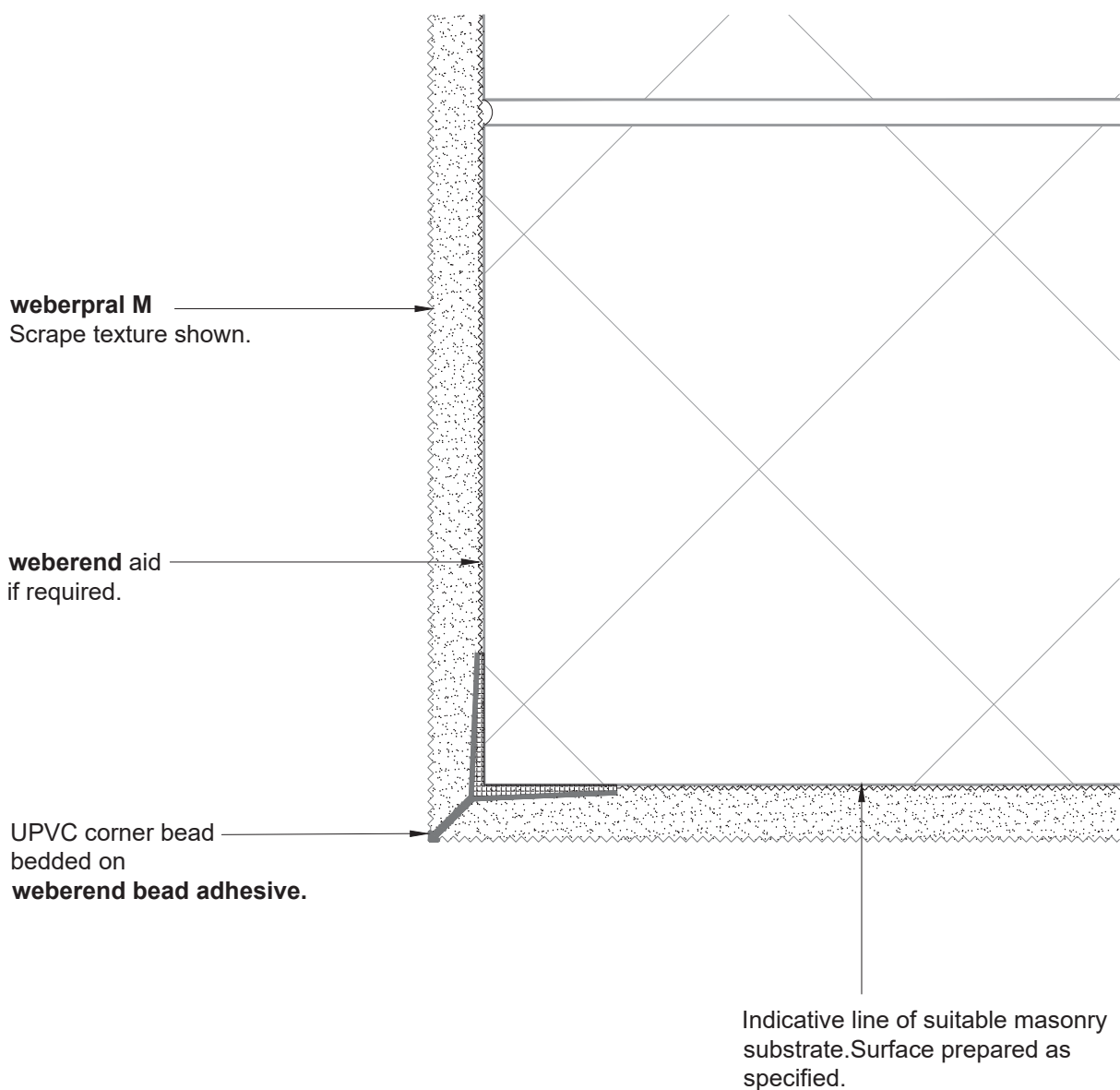
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Projecting Brick/Stone Plinth	Dwn	CDH	Chkd	SPEC
				No	M-02-02

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Aspect ratio to be no greater than 4:1.

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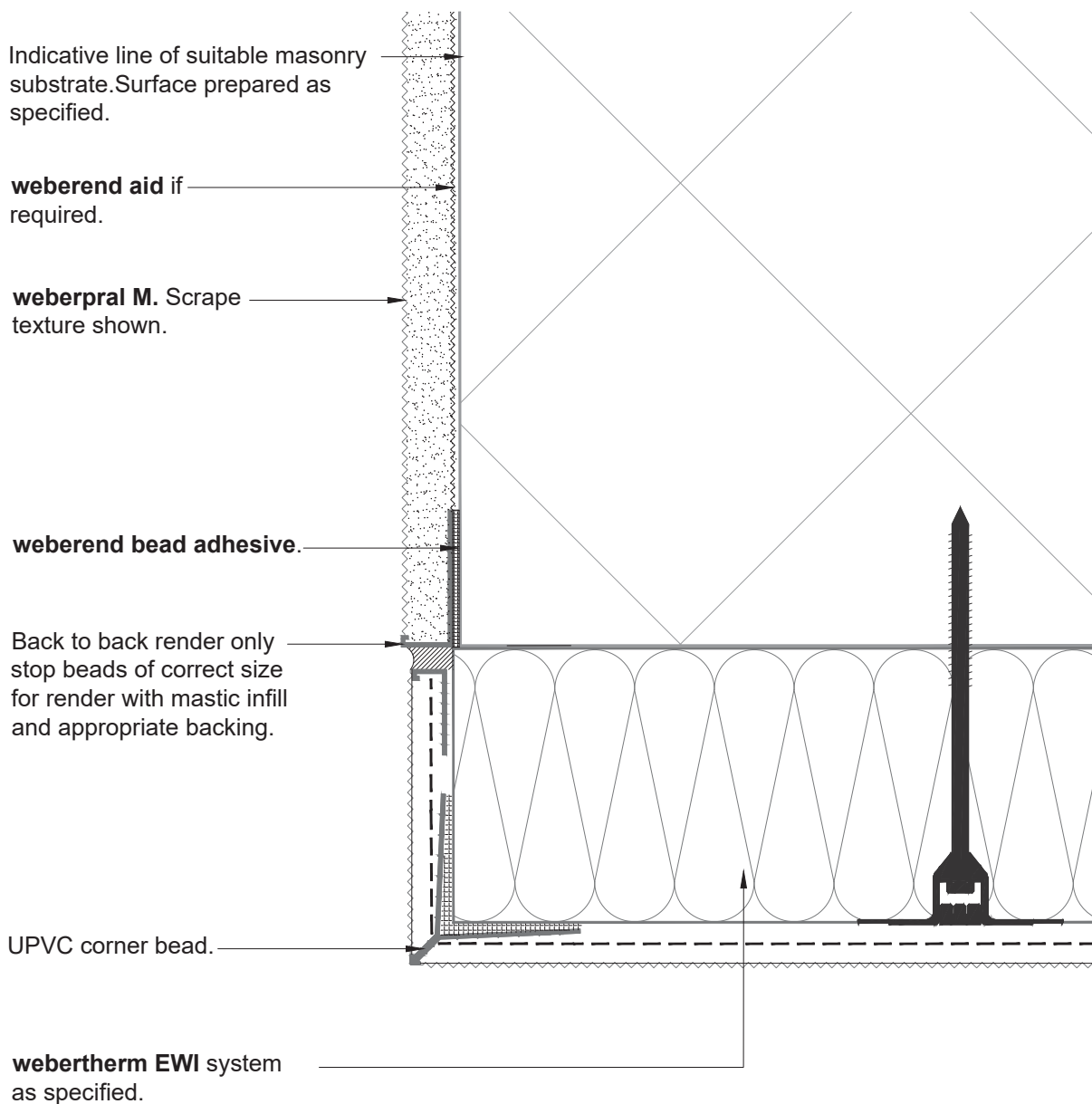
CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Plan - External Corner	Dwn	CDH	Chkd	SPEC
				No	M-03-01

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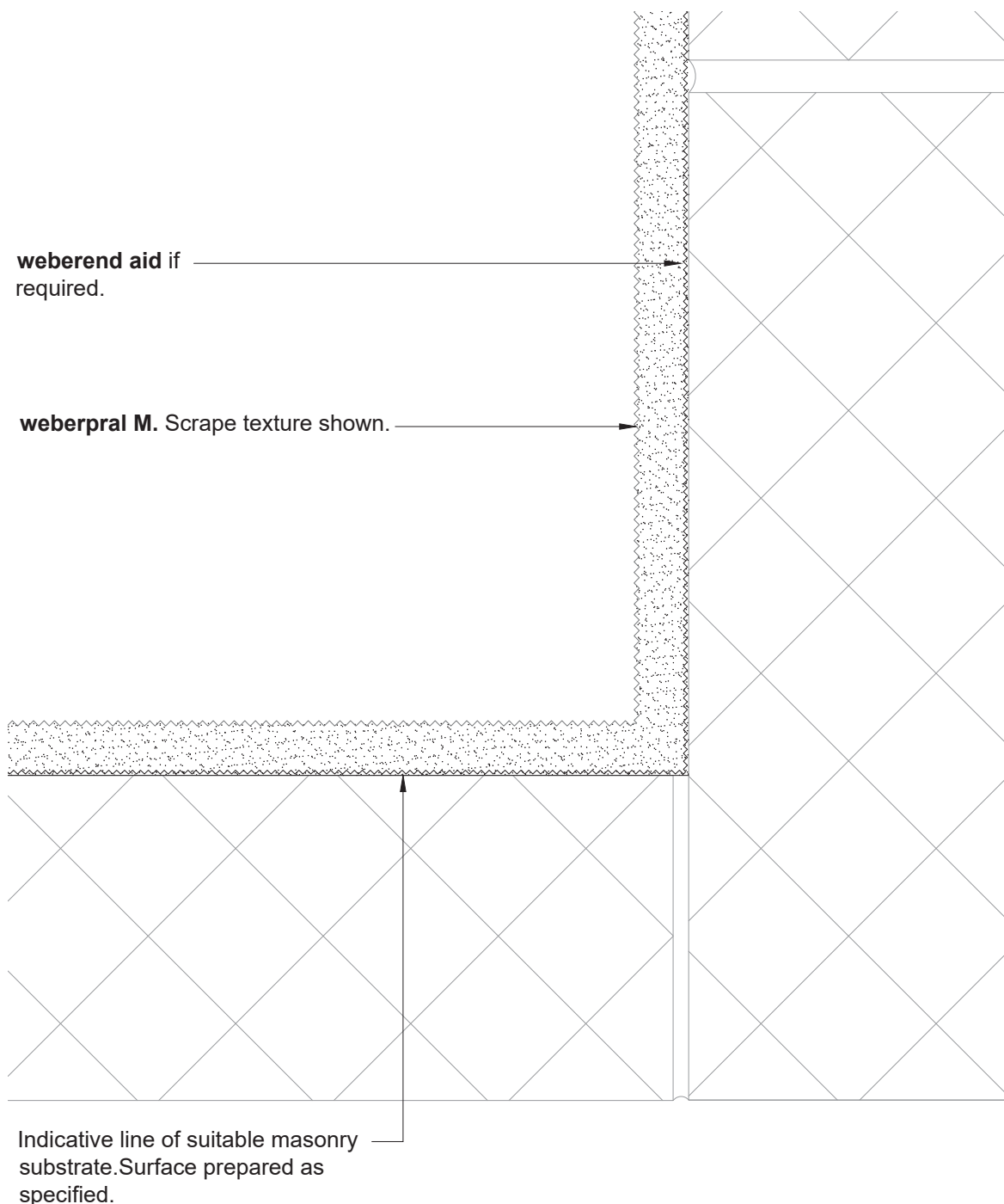
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Plan - weberpral M / Weber EWI interface	Drn	CDH	Chkd	SPEC
				No	M-03-11

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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Plan - Internal Corner	Drn	CDH	Chkd	SPEC
				No	M-04-01

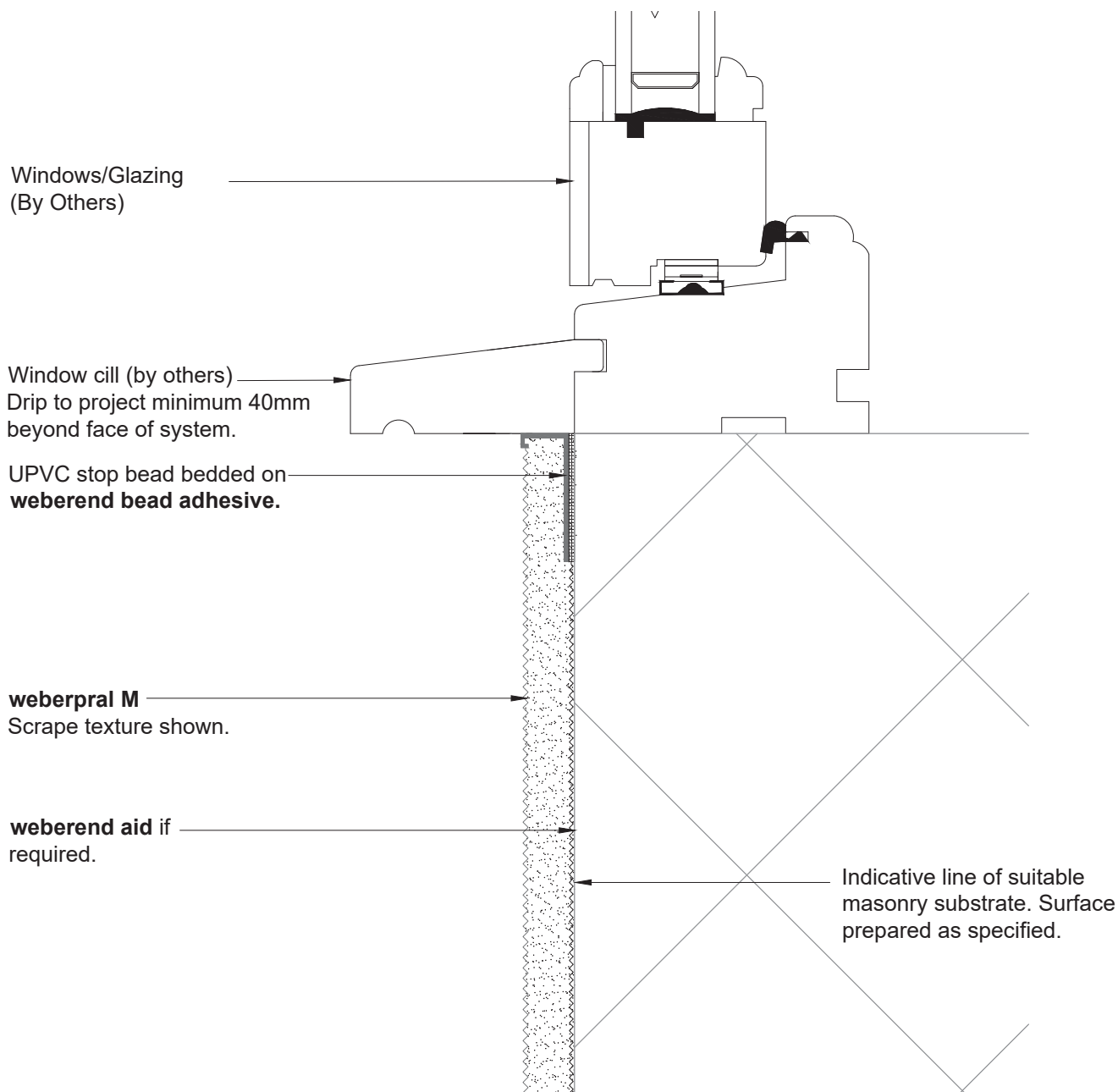
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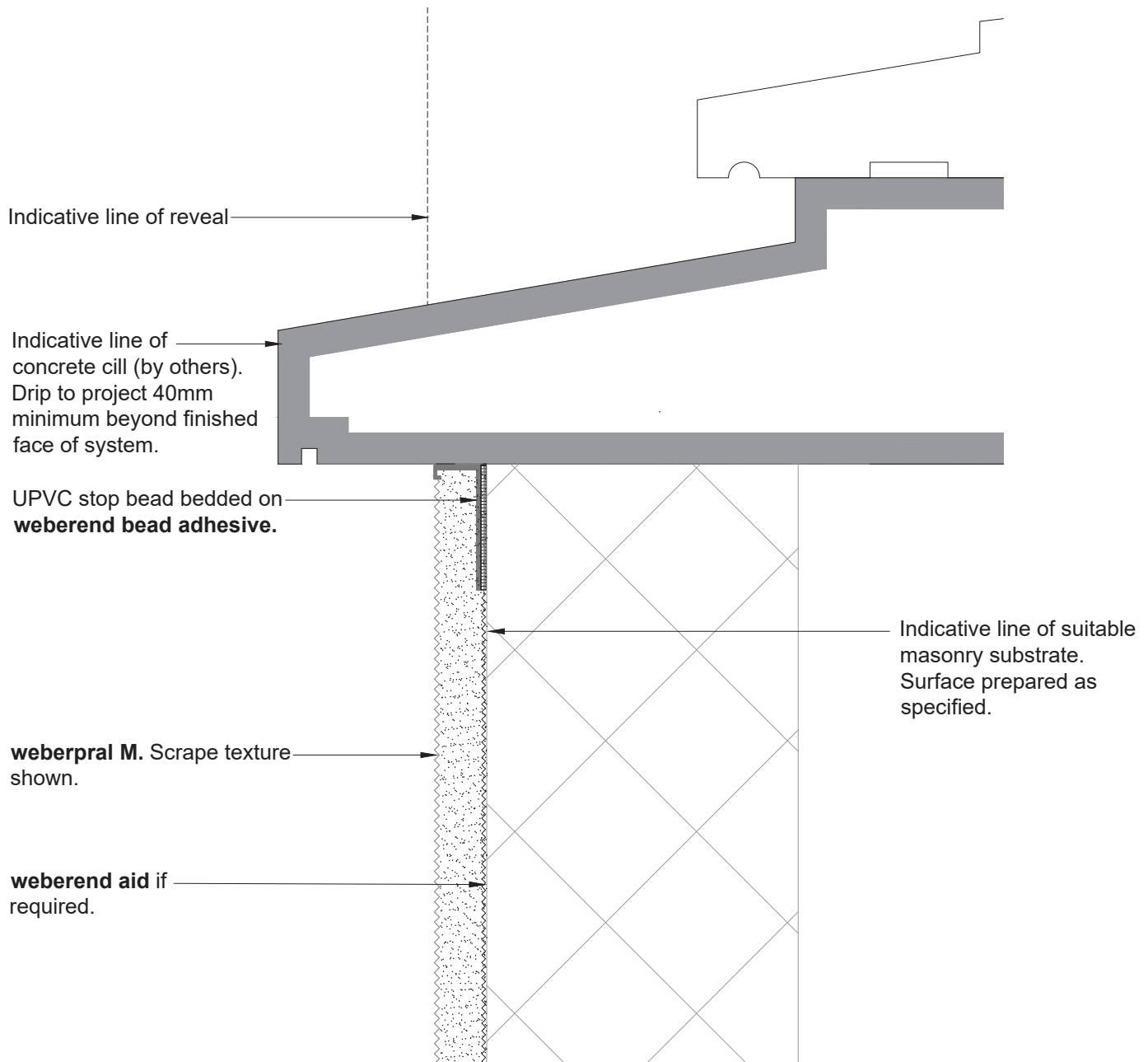
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Window Cill	Dwn	CDH	Chkd	SPEC
				No	M-05-01

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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Concrete Cill	Dwn	CDH	Chkd	SPEC
				No	M-05-11

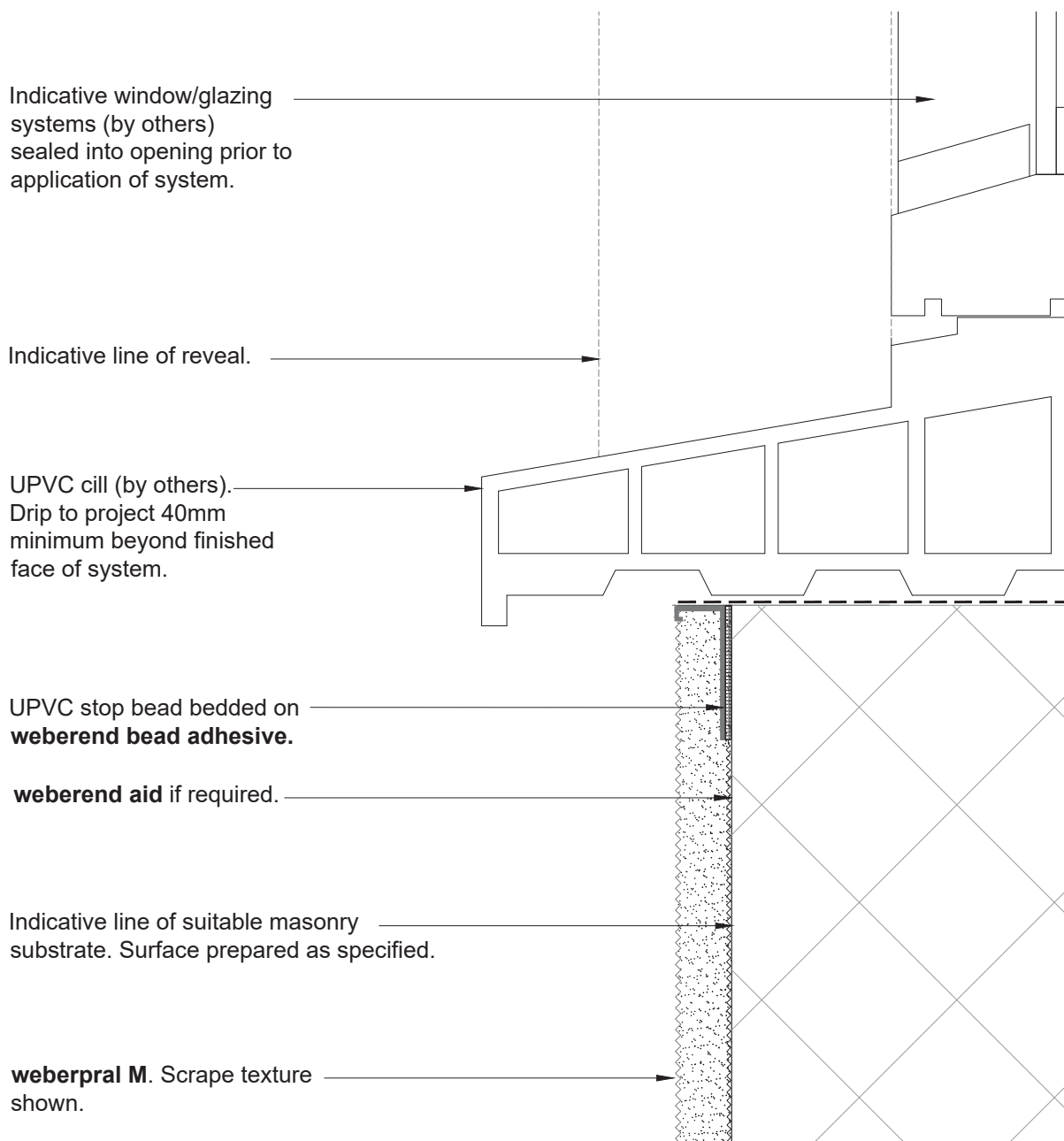
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - UPVC Cill	Drn	CDH	Chkd	SPEC
				No	M-05-21

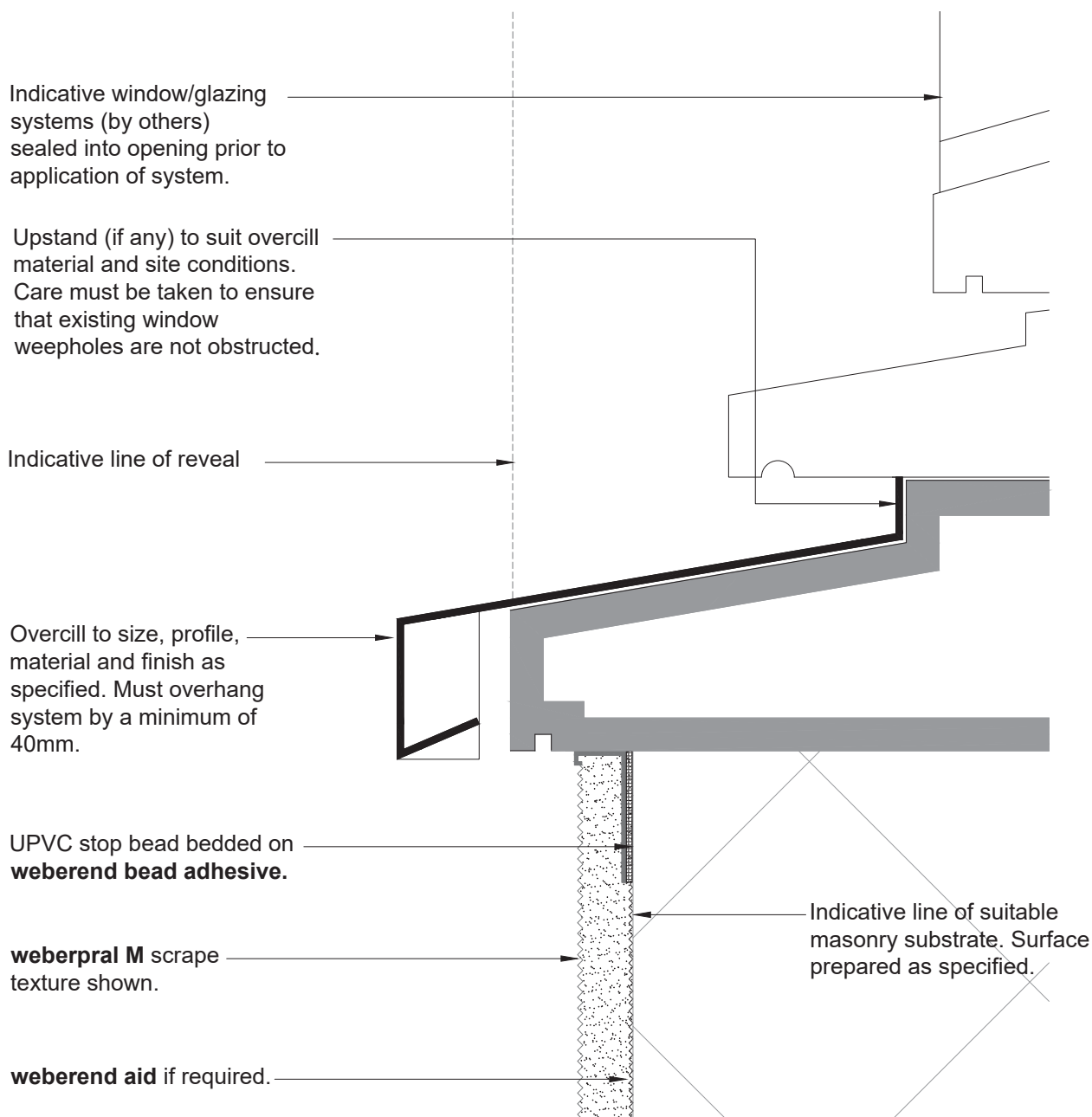
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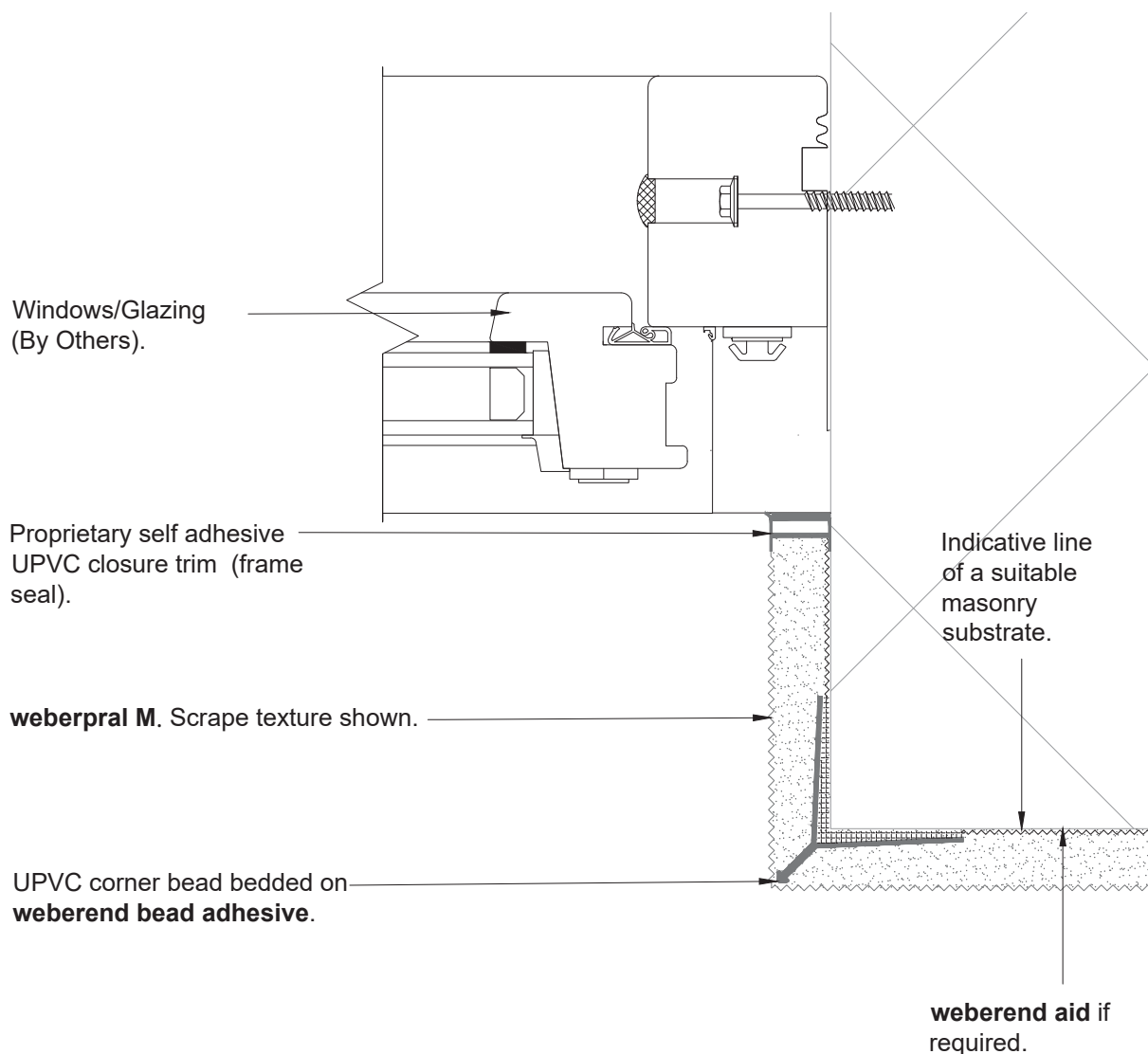
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Overcill	Drn	CDH	Chkd	SPEC
				No	M-05-31

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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Reveal (Frame Seal)	Dwn	CDH	Chkd	SPEC
				No	M-06-01

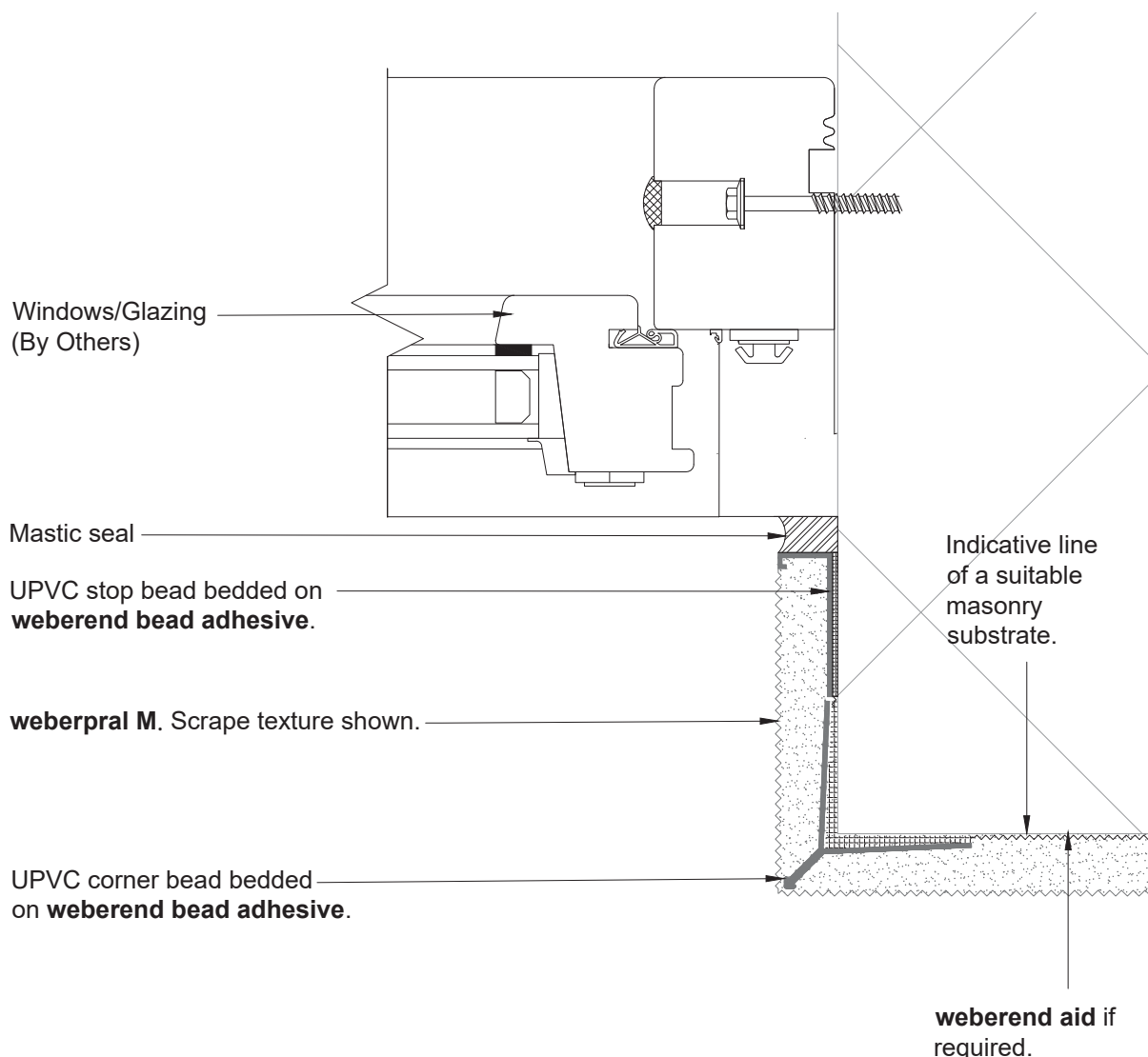
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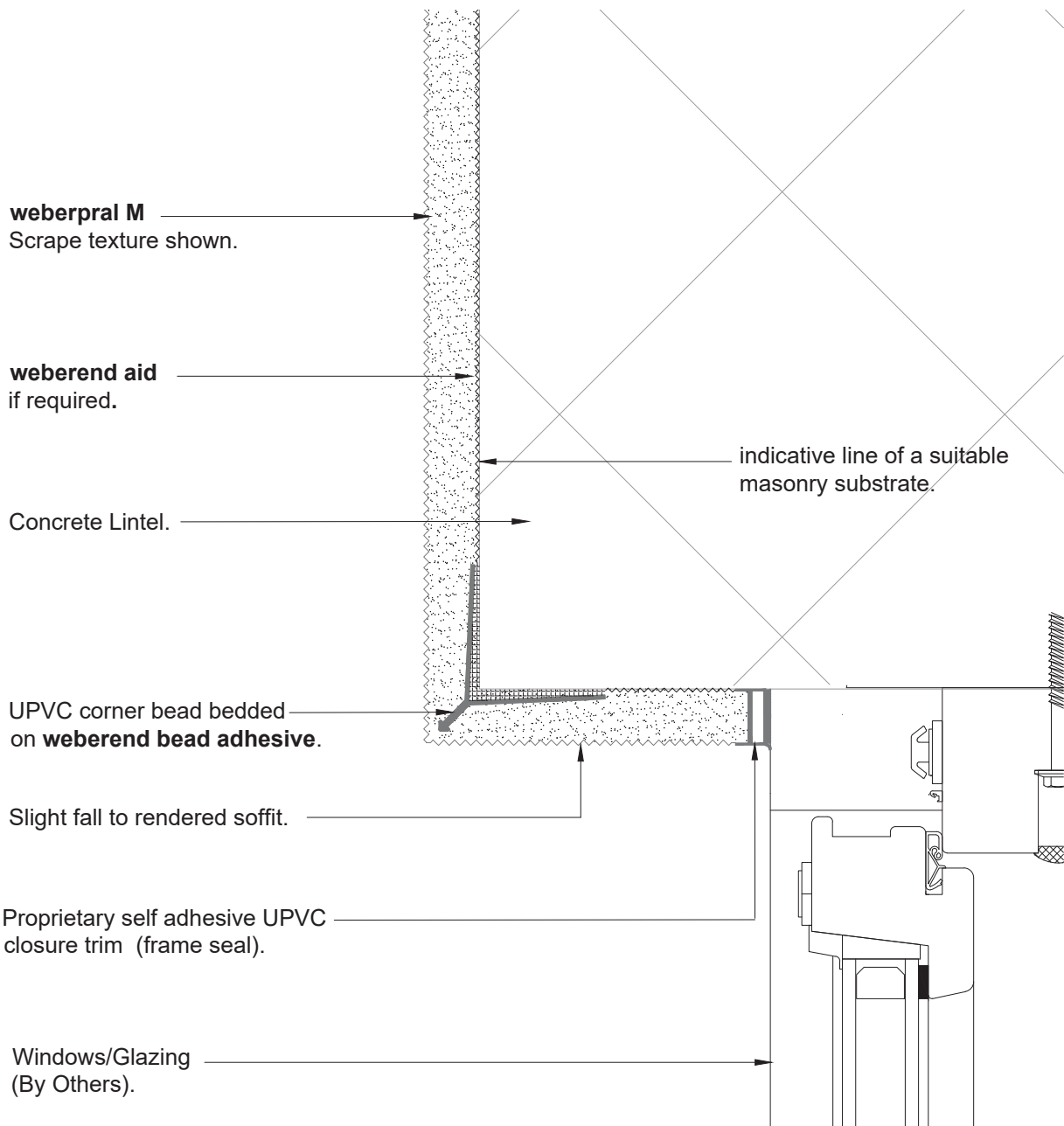
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Reveal (Bead + Mastic)	Drn	CDH	Chkd	SPEC
				No	M-06-03

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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Window Head (Frame Seal)	Drn	CDH	Chkd	SPEC
				No	M-07-01

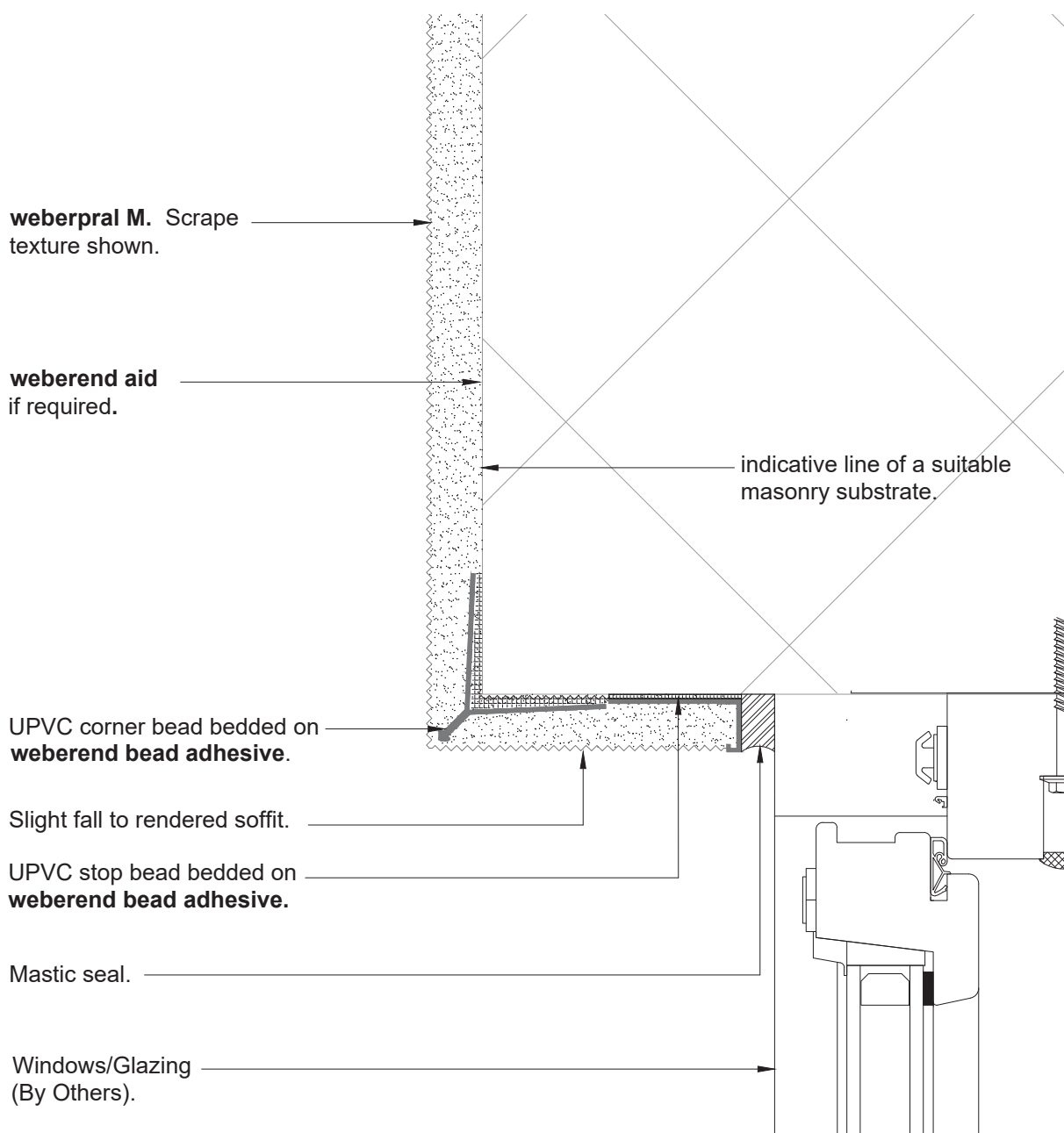
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weberpral M

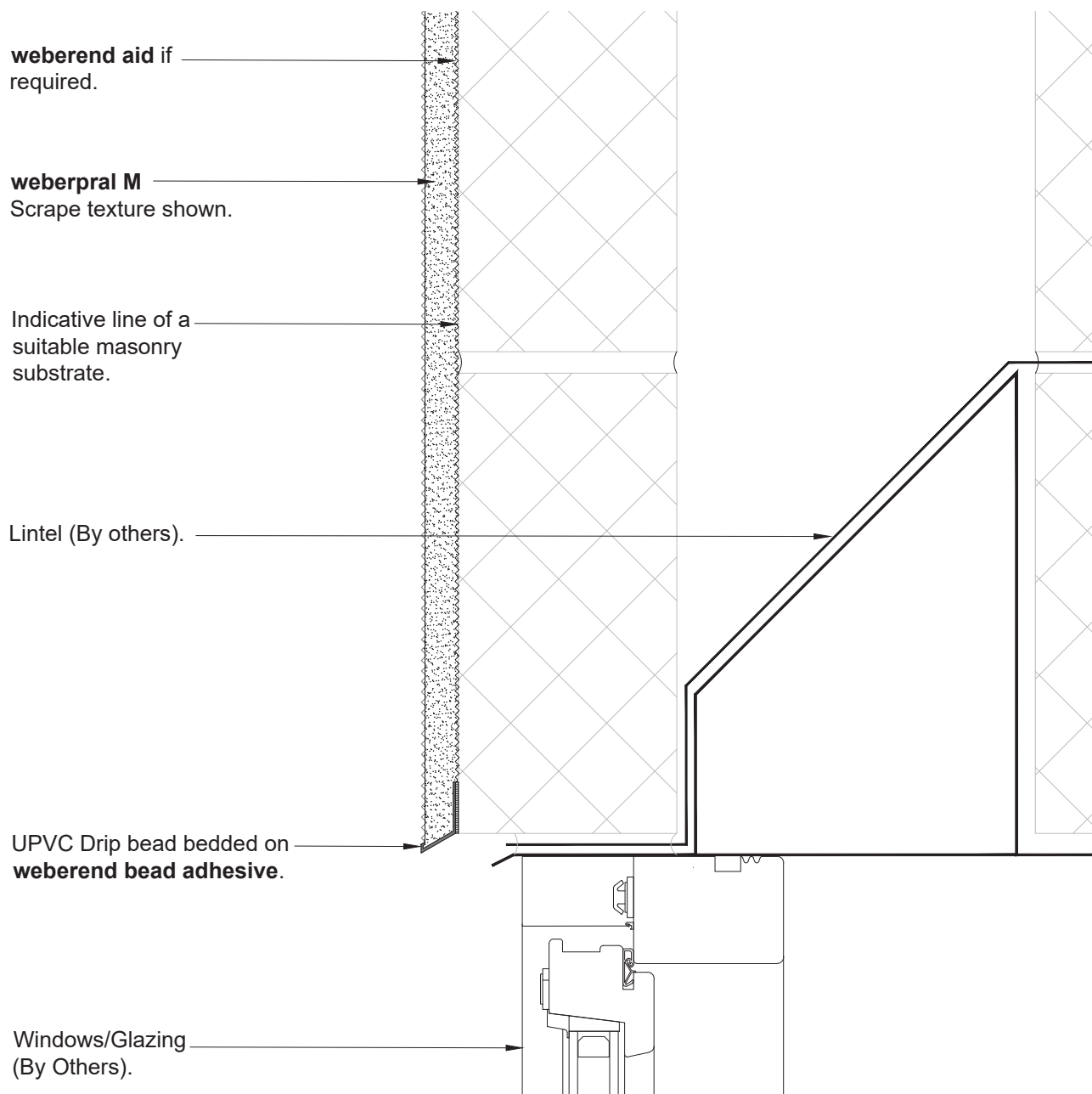
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Window Head (Bead + Mastic)	Dwn	CDH	Chkd	SPEC
				No	M-07-03

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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Lintel	Dwn	CDH	Chkd	SPEC
				No	M-07-10

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Indicative line of
a suitable masonry
substrate.

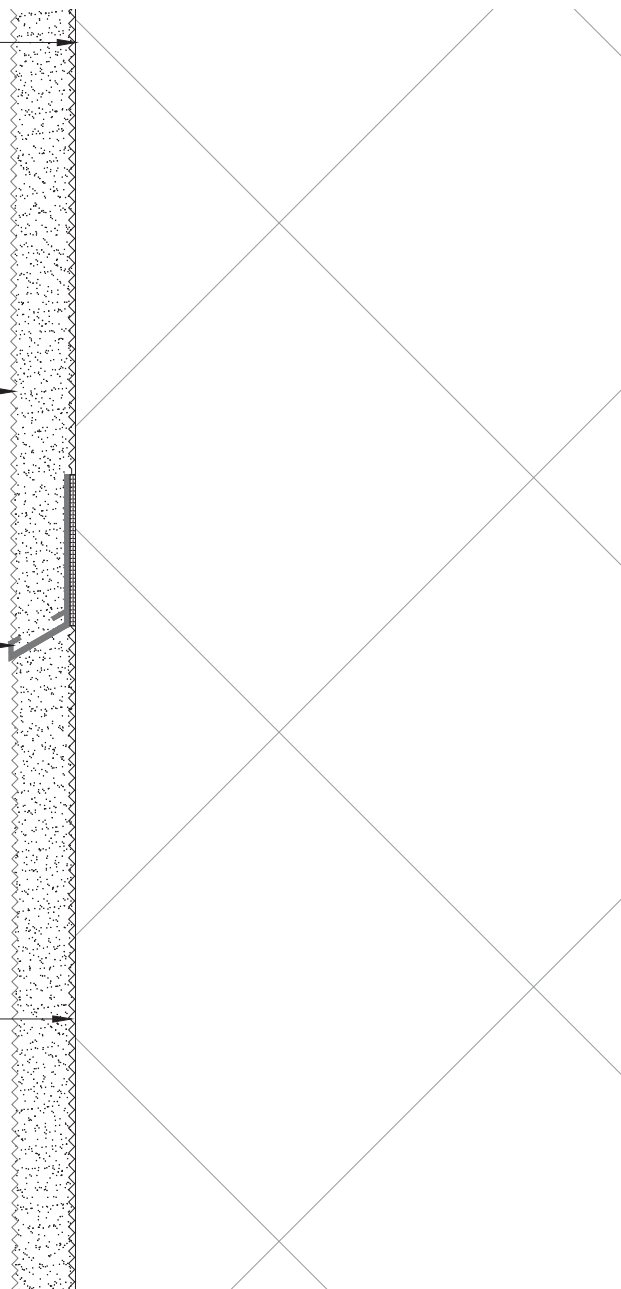
weberpral M
Scrape texture shown.

UPVC drip bead bedded on
weberend bead adhesive.

weberend aid if
required.

NOTE:

Unbroken panels of render should be
limited to 45 - 50sq.m.
Aspect ratio to be no greater than 4:1.



weberpral M

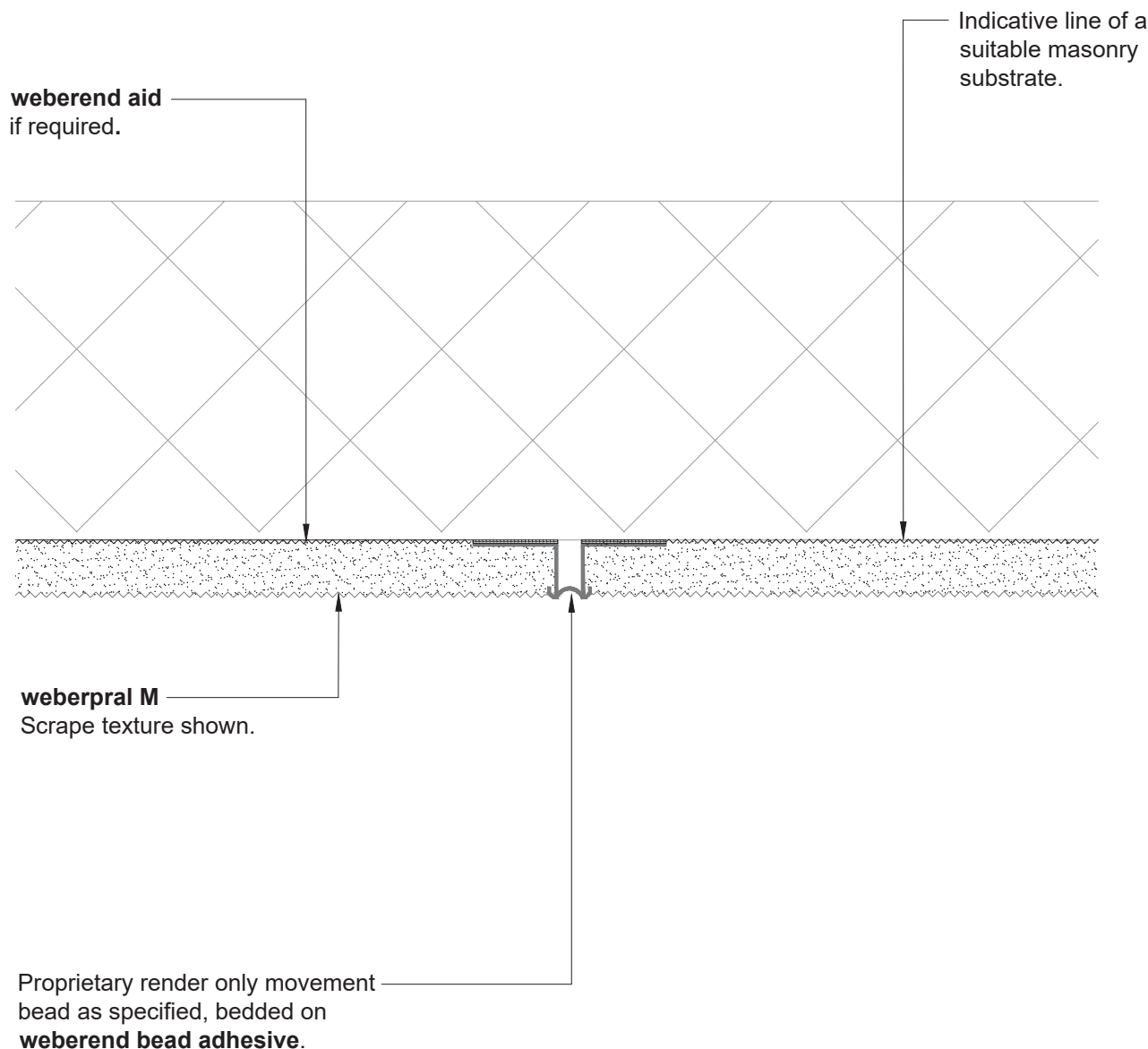
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Horizontal Drip Bead	Drn	CDH	Chkd	SPEC
				No	M-08-01

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NOTE:

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limited to 45 - 50sq.m.
Aspect ration to be no greater than 4:1.

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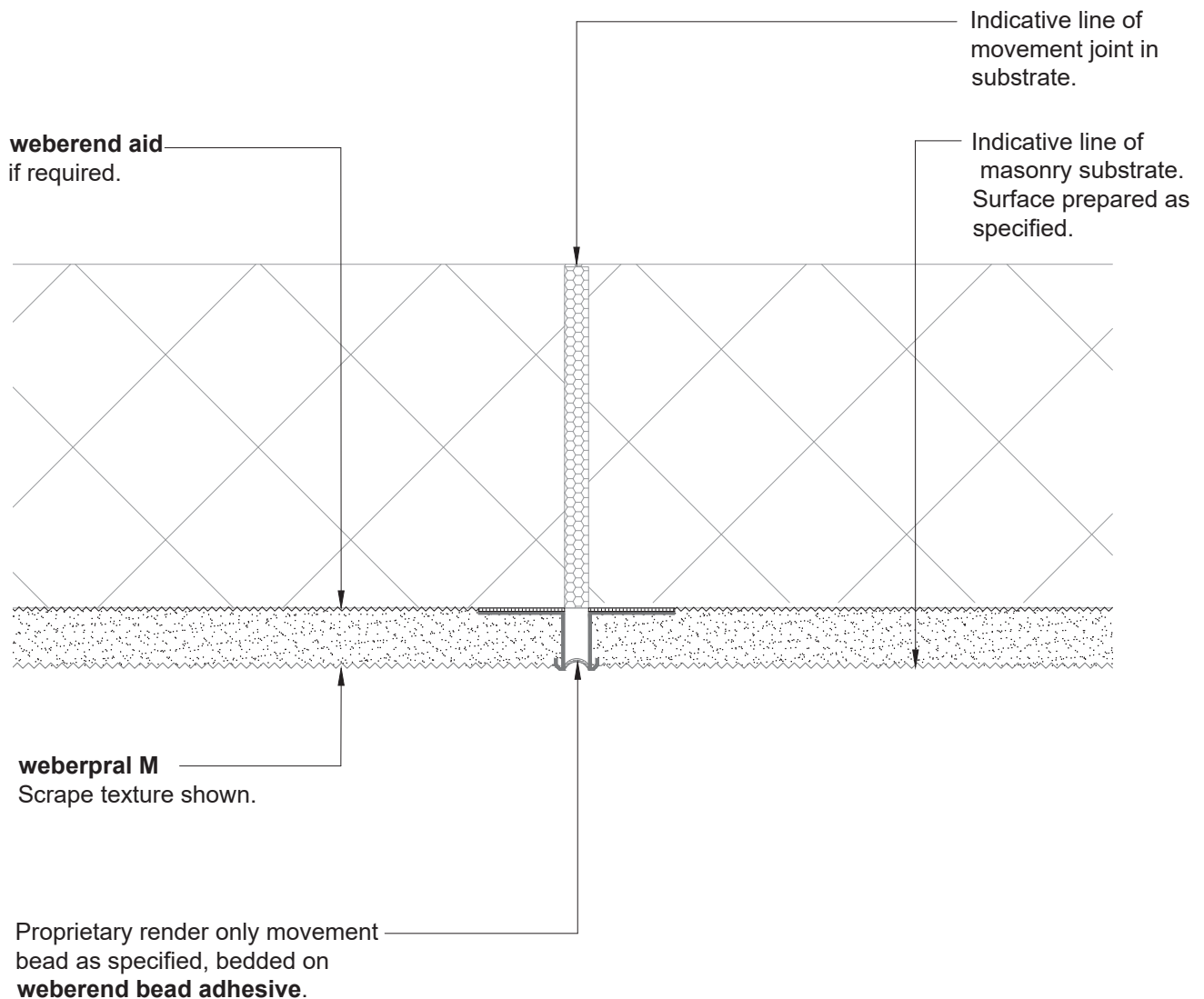
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Plan - Vertical Break (Proprietary Bead)	Drm	CDH	Chkd	SPEC
				No	M-09-01

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NOTE:

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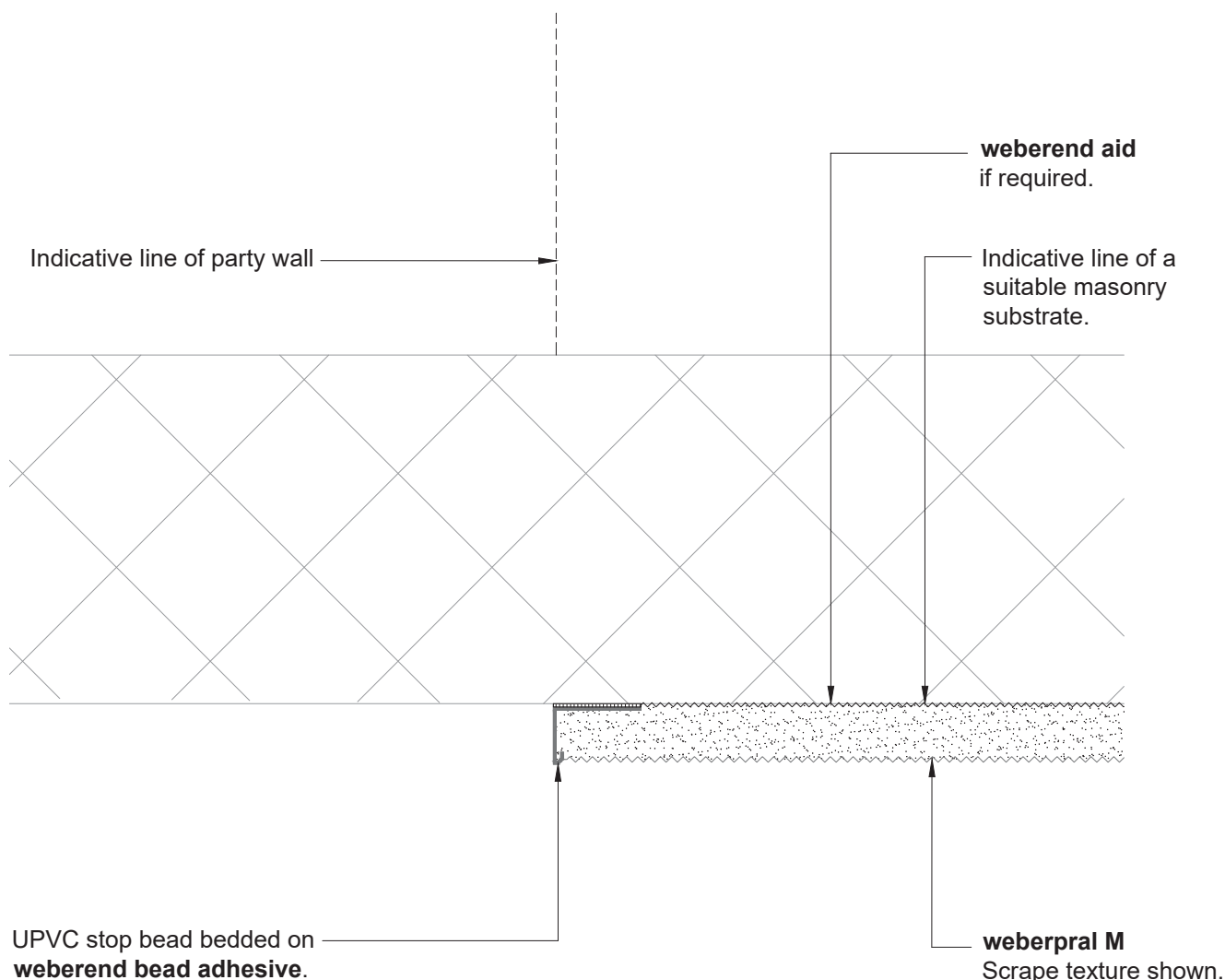
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Plan - Vertical Movement Joint (Bead)	Dwn	CDH	Chkd	SPEC
				No	M-09-11

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NOTE:

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Aspect ration to be no greater than 4:1.

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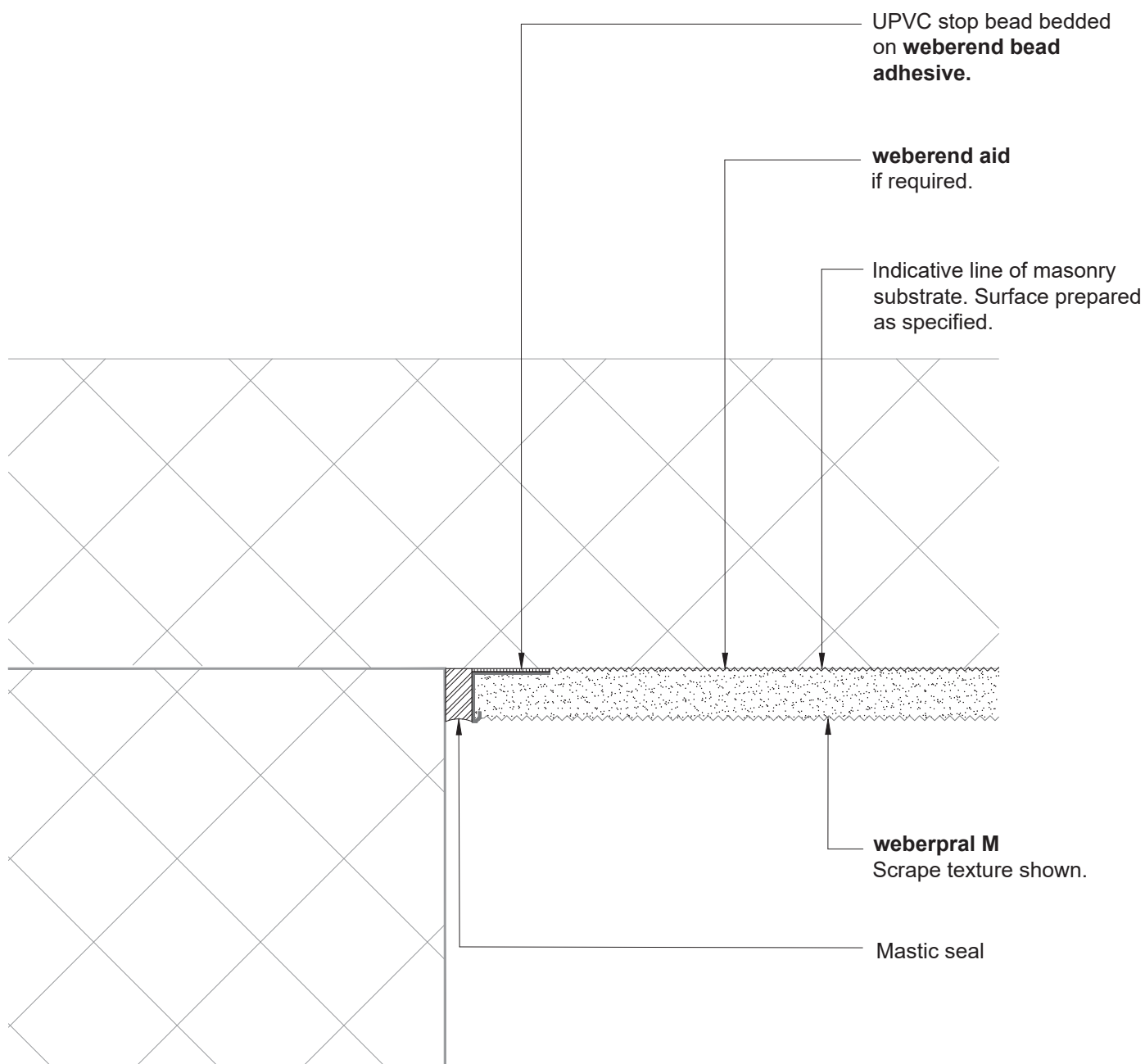
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Plan - Vertical Stop Bead	Drn	CDH	Chkd	SPEC
				No	M-09-32

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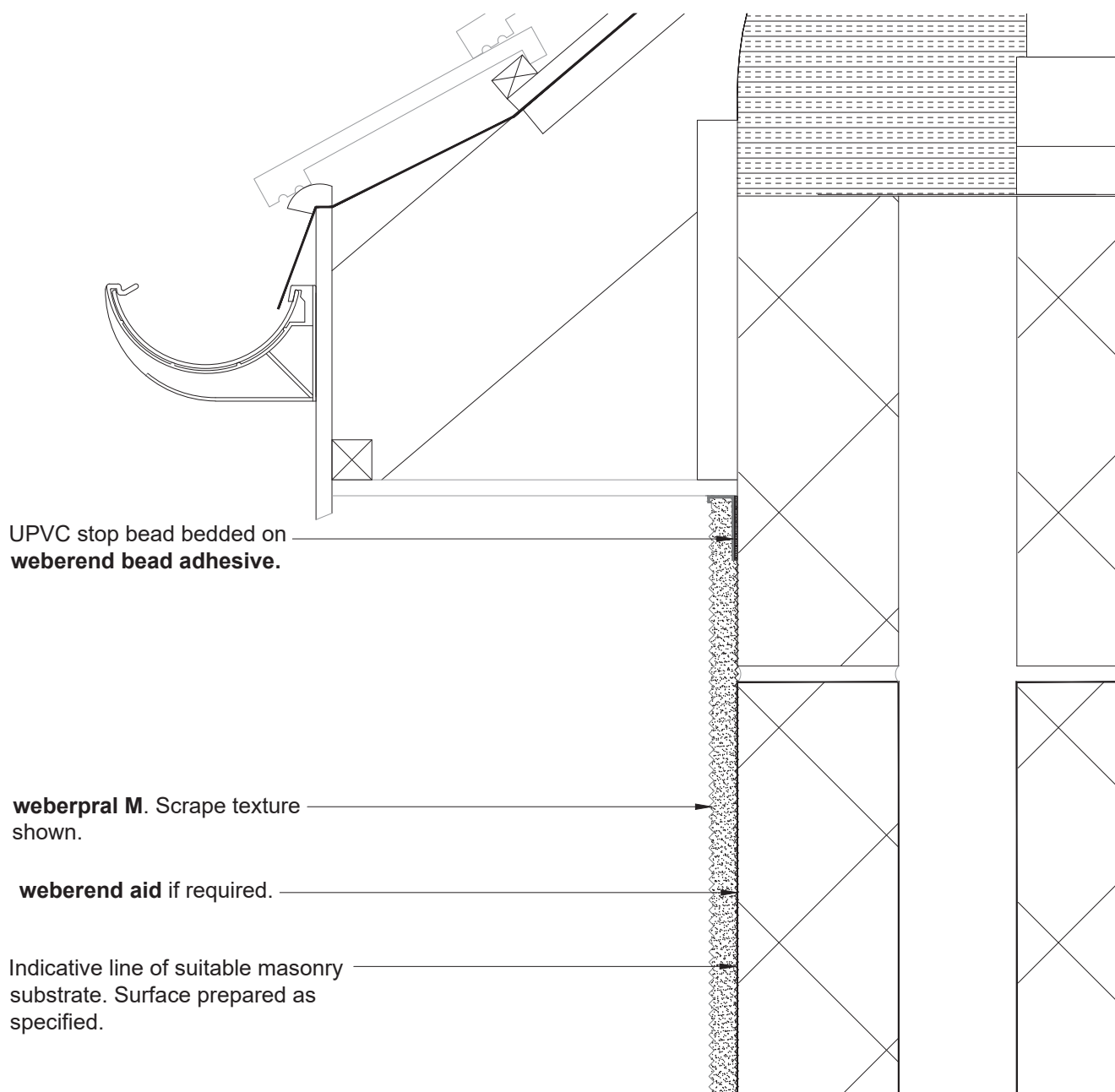
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Plan - Junction with Adjoining Substrate	Dwn	CDH	Chkd	SPEC
				No	M-09-41

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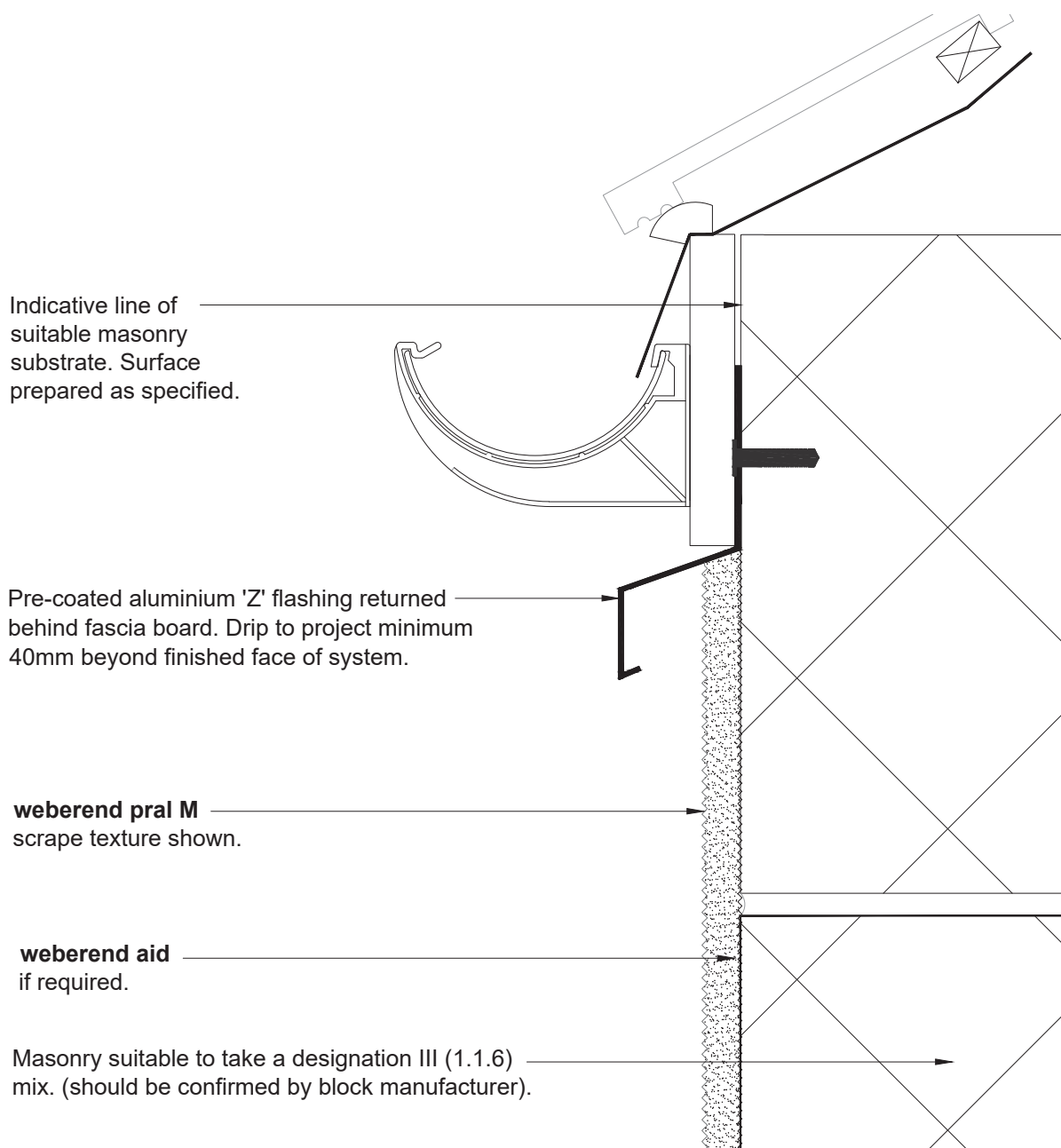
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CLIENT	Library	Date	Oct 2020	Scale	1:4
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Main Wall Soffit Fascia	Drn	CDH	Chkd	SPEC
				No	M-11-01

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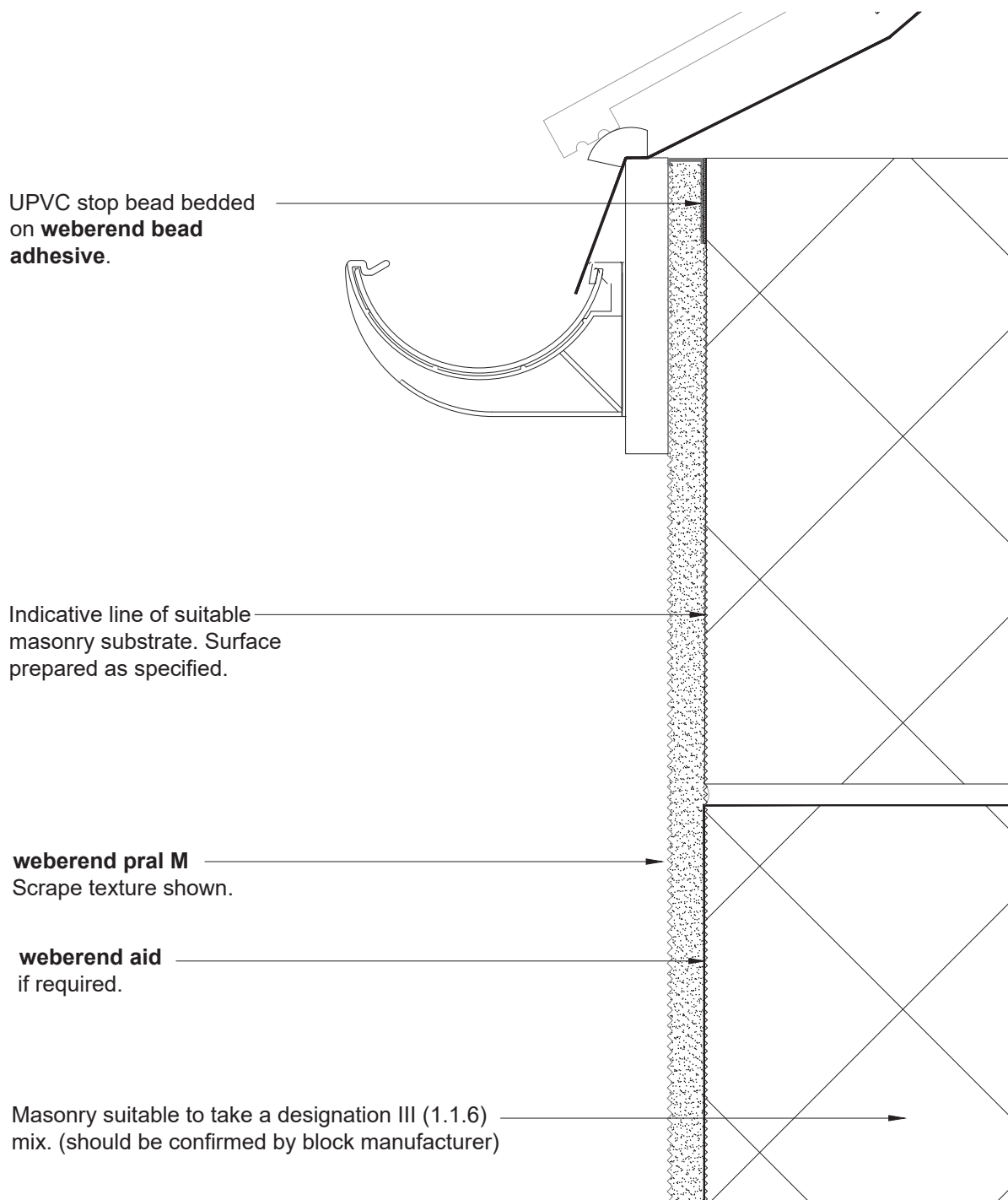
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CLIENT	Library	Date	Oct 2020	Scale	1:3
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Main Wall Fascia (Z Flashing)	Drn	CDH	Chkd	SPEC
				No	M-11-02

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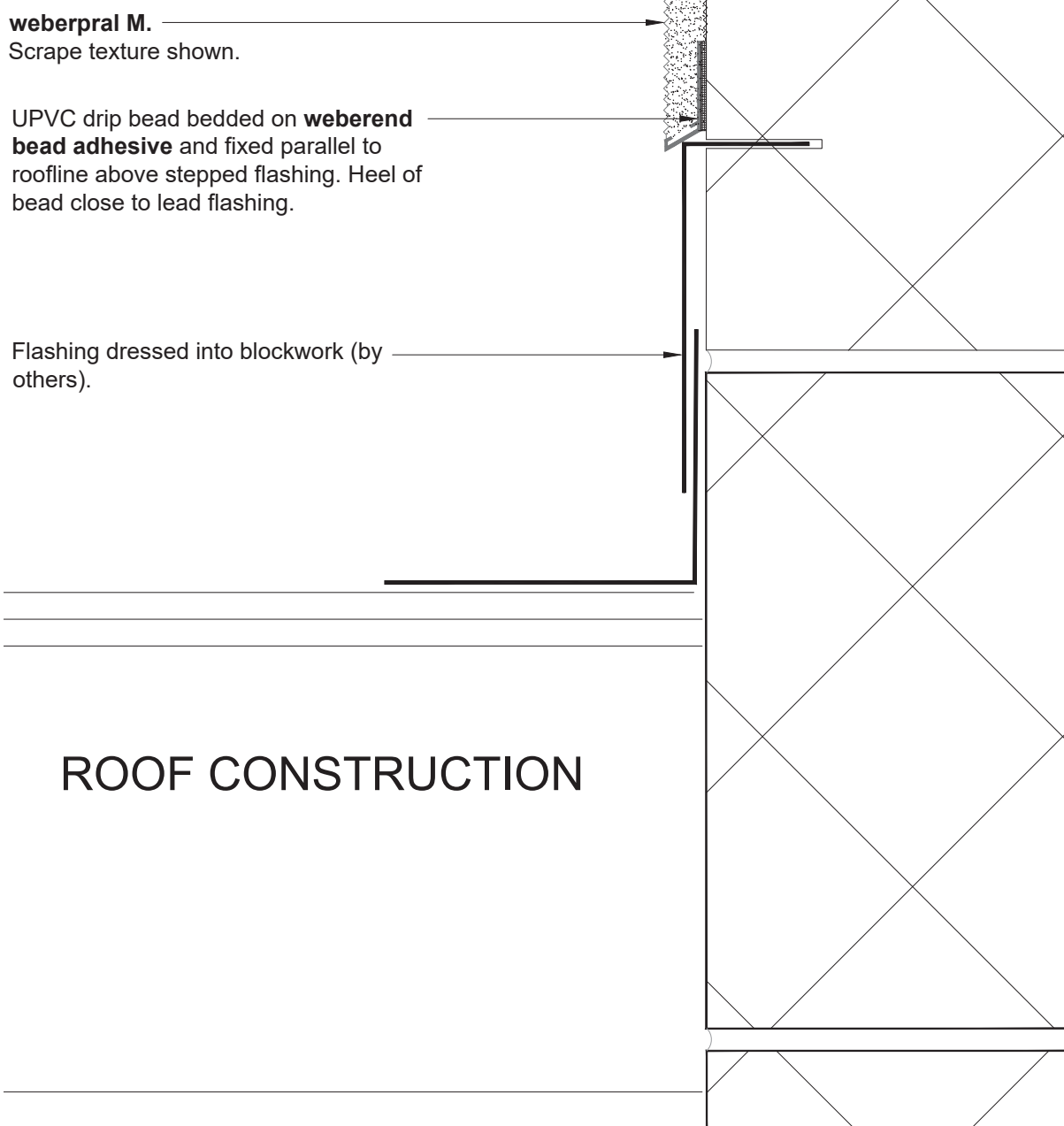
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CLIENT	Library	Date	Oct 2020	Scale	1:3
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Main Wall Render Behind Fascia	Drn	CDH	Chkd	SPEC
				No	M-11-03

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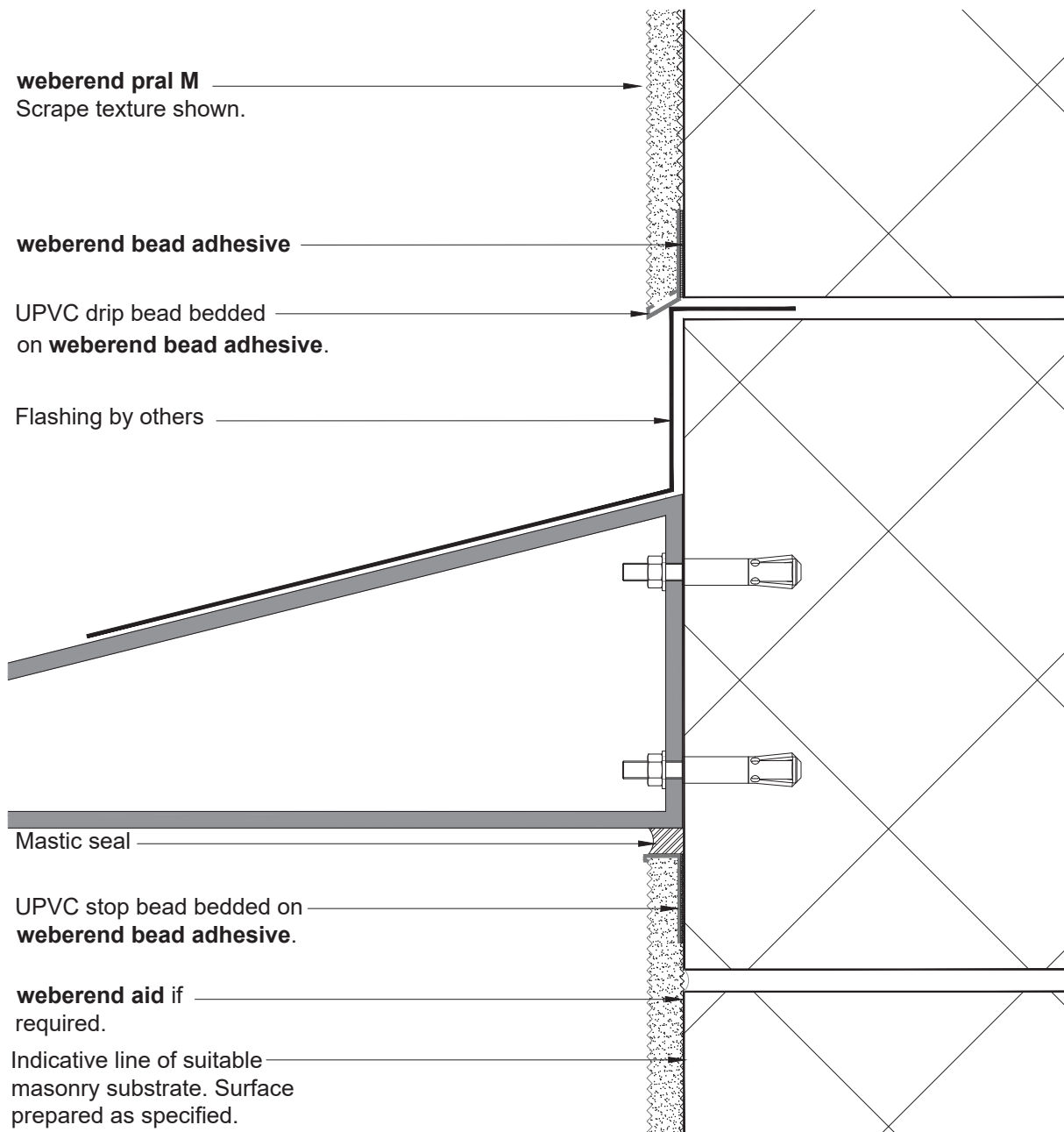
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CLIENT	Library	Date	Oct 2020	Scale	1:3
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Adjoining Roof	Dwn	CDH	Chkd	SPEC
				No	M-11-04

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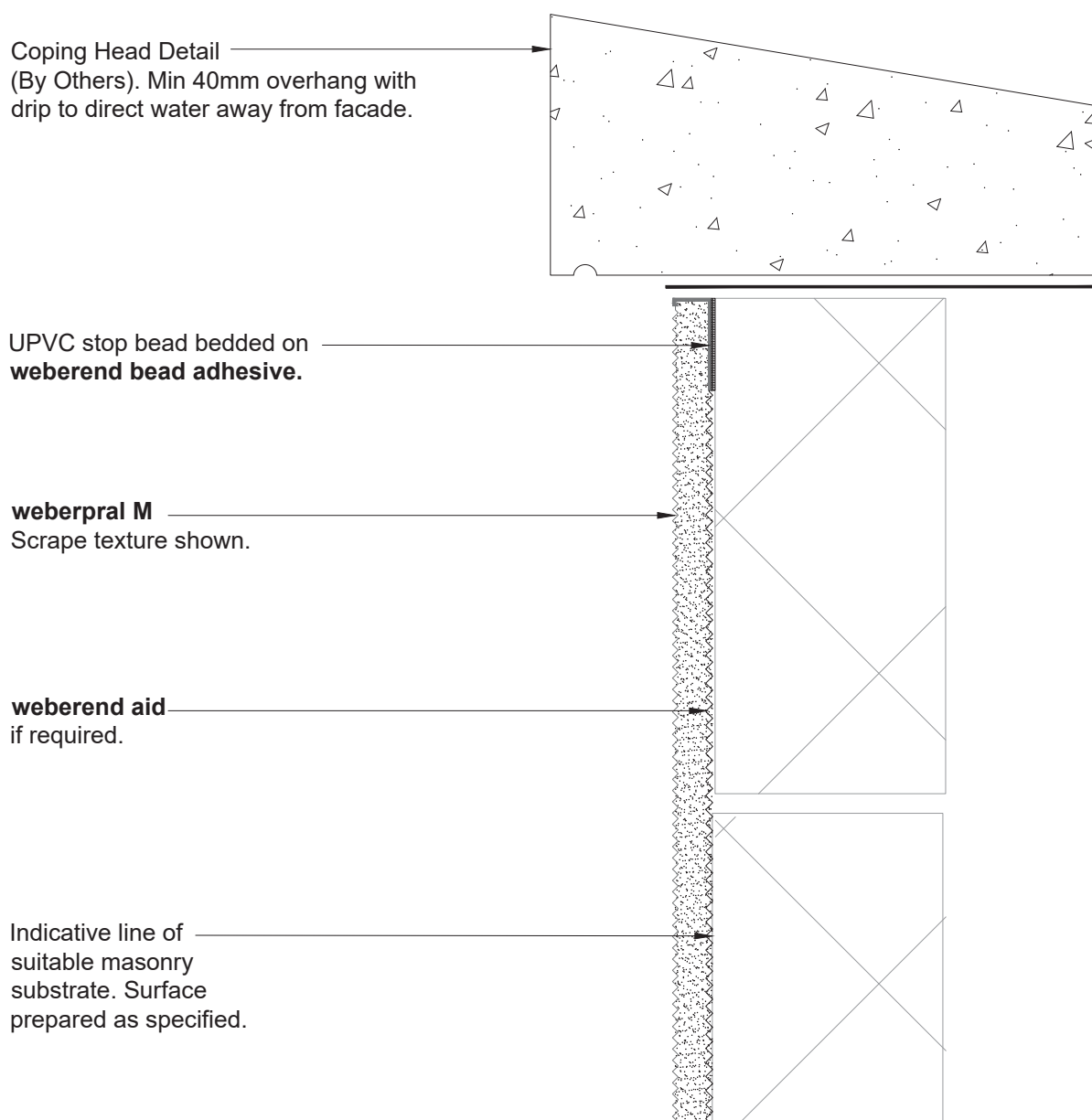
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CLIENT	Library	Date	Oct 2020	Scale	1:3
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Canopy	Dwn	CDH	Chkd	SPEC
				No	M-11-05

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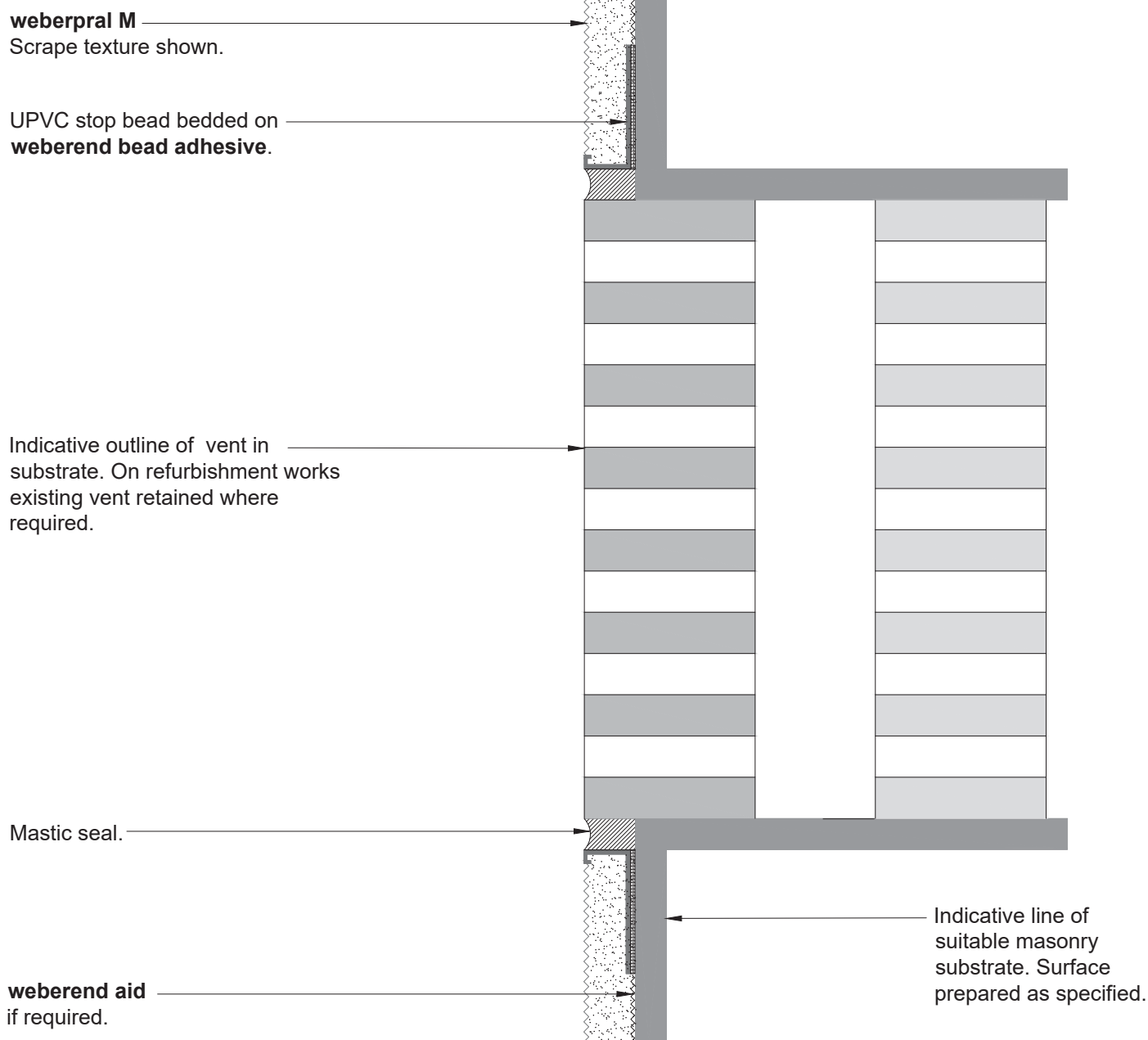
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CLIENT	Library	Date	Oct 2020	Scale	1:3
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Coping/Parapet	Drn	CDH	Chkd	SPEC
				No	M-12-01

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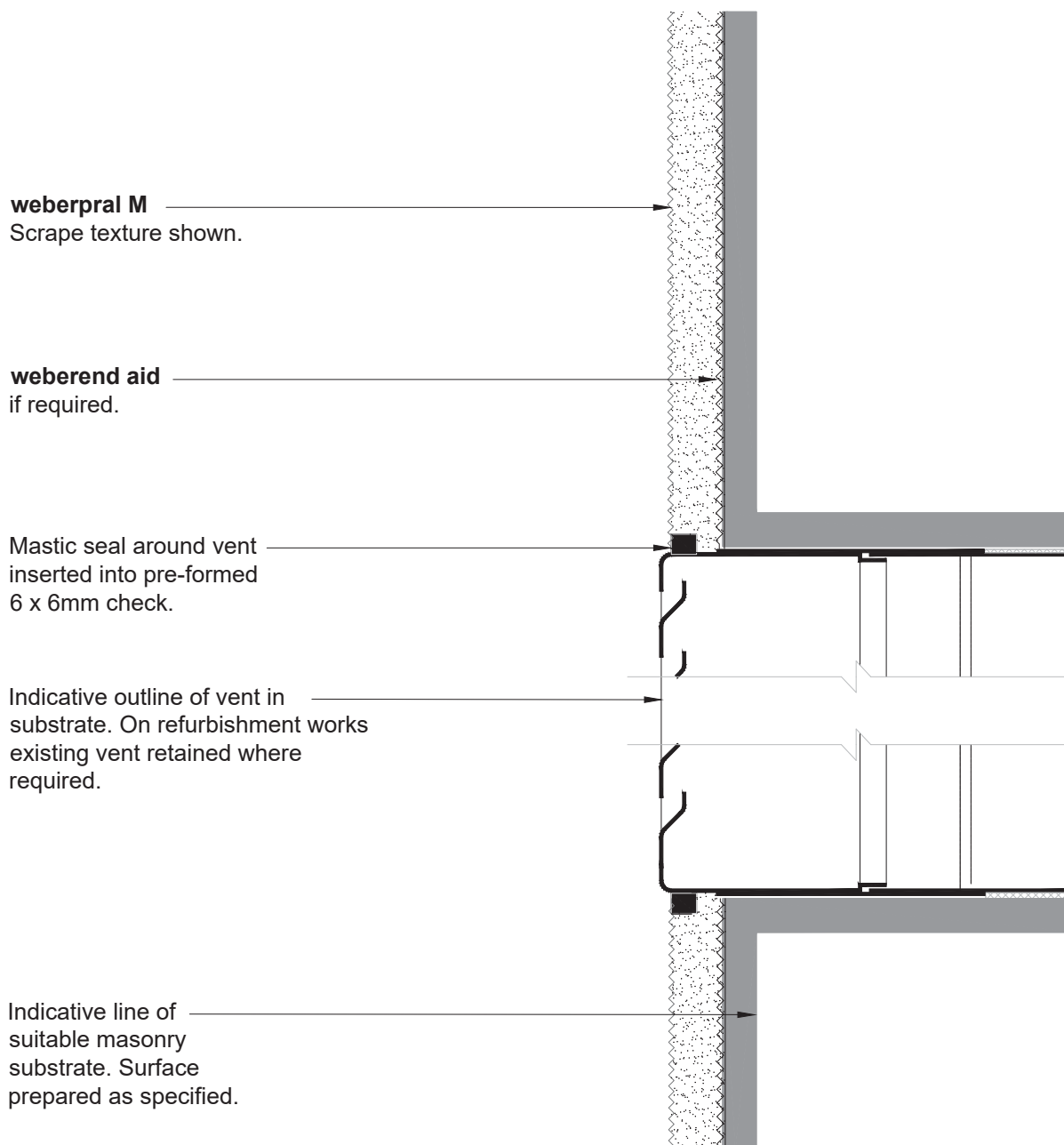
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Ventilator (Rectangular)	Drm	CDH	Chkd	SPEC
				No	M-13-01

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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Ventilator (Circular)	Drn	CDH	Chkd	SPEC
				No	M-13-02

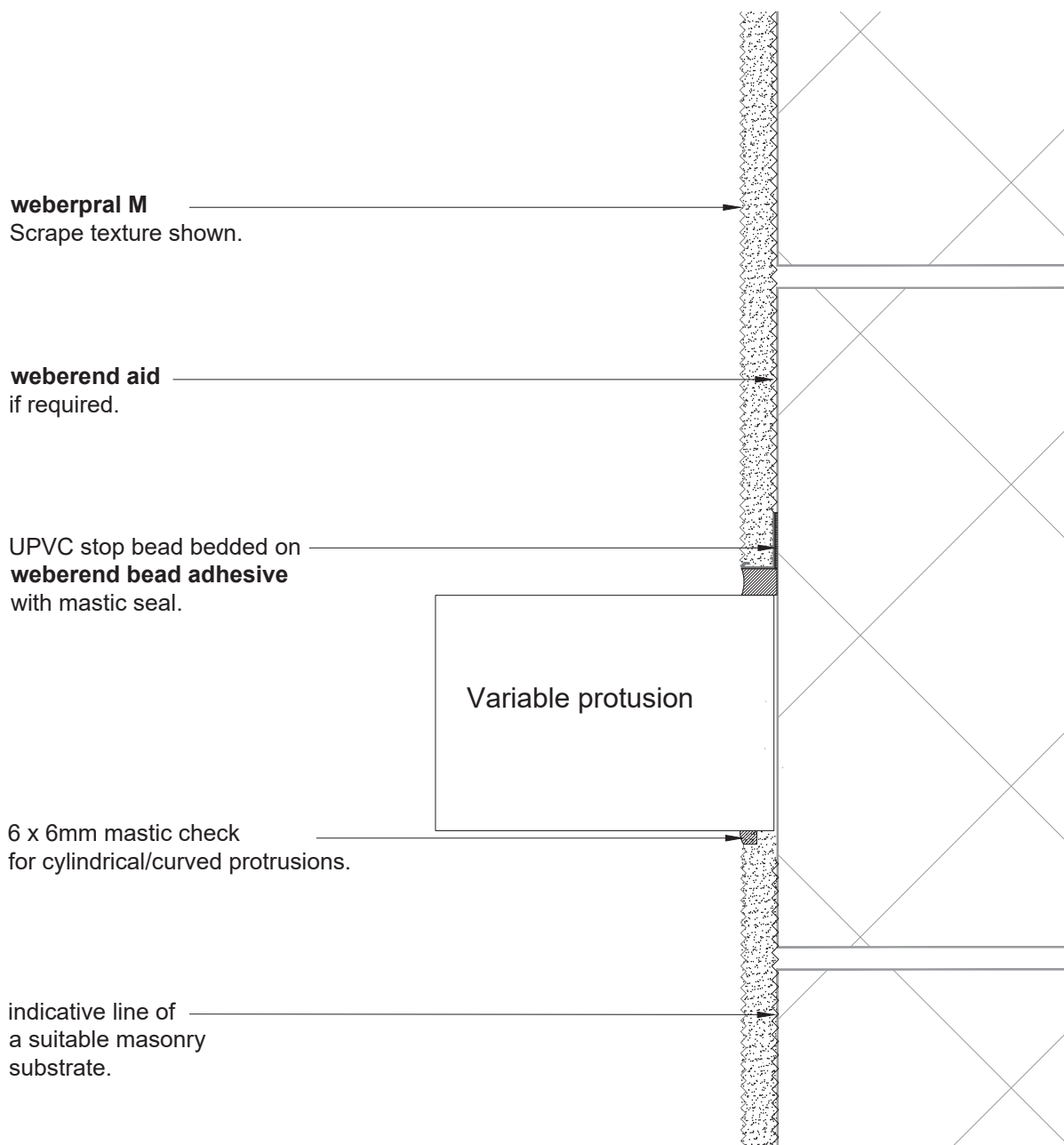
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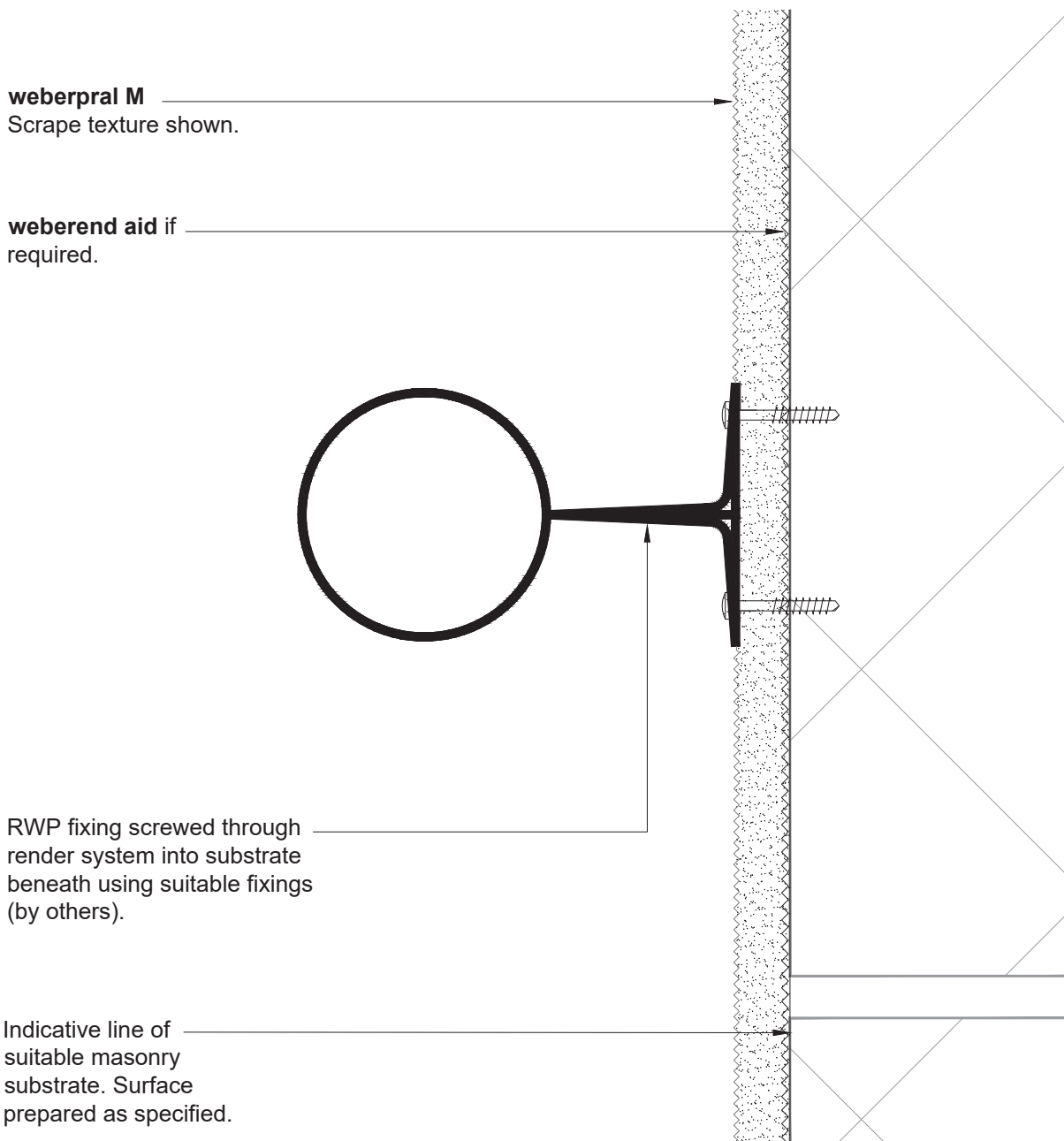
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CLIENT	Library	Date	Oct 2020	Scale	1:3
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Section - Typical System Protrusion	Drn	CDH	Chkd	SPEC
				No	M-13-04

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weberpral M

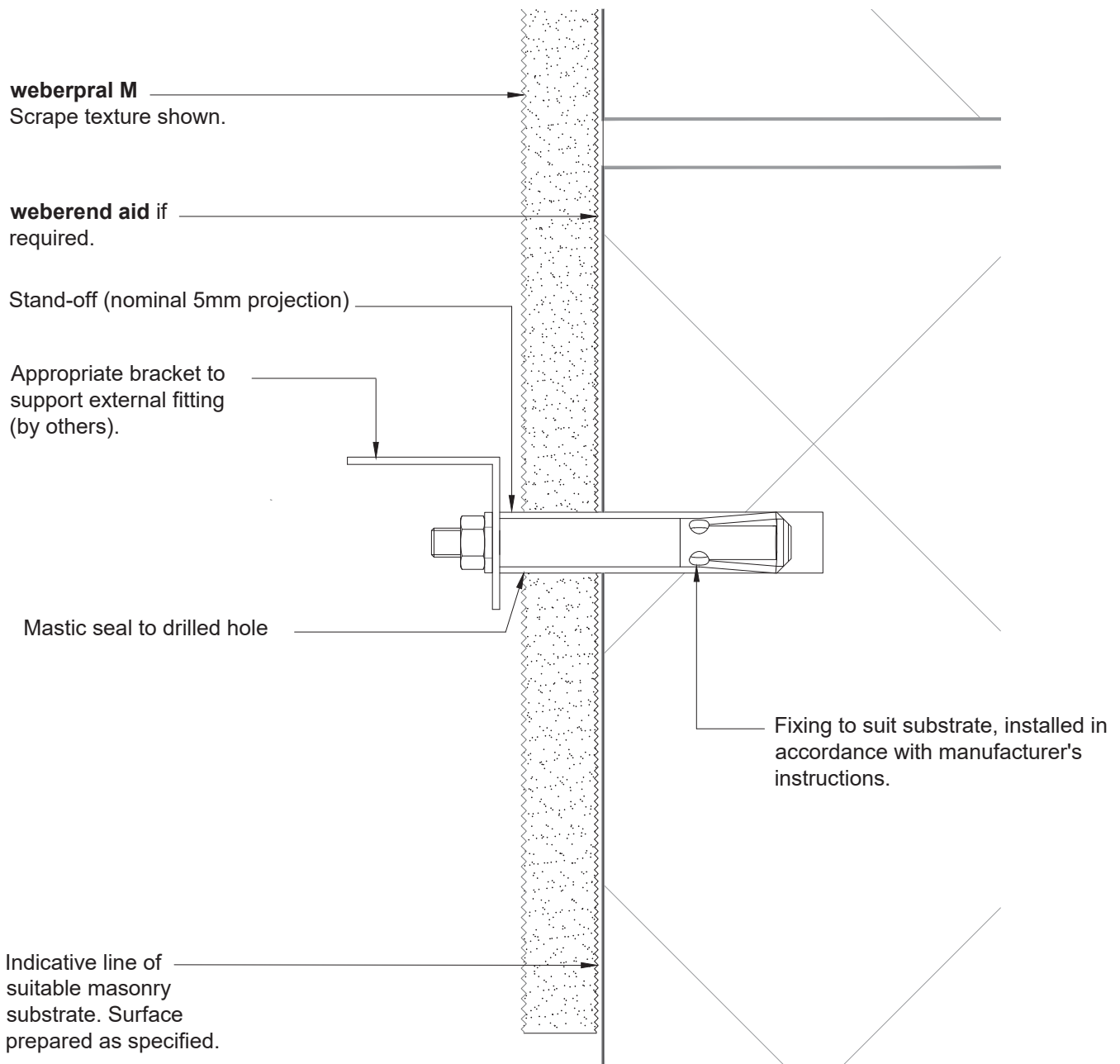
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CLIENT	Library	Date	Oct 2020	Scale	1:2
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Plan - RWP Fixing	Drn	CDH	Chkd	SPEC
				No	M-13-20

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weberpral M

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CLIENT	Library	Date	Oct 2020	Scale	NTS
PROJECT	Typical Details	Ref			
DWG TITLE	Detail Plan - Typical Fixing Bracket	Dwn	CDH	Chkd	SPEC
				No	M-13-40

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Technical Data Sheets

Available for download at uk.weber/download-centre

weber CL150

ONLY AVAILABLE IN THE UNITED KINGDOM

Algae and fungi cleaner

- * Effective against a broad range of algae, fungal and mould species
- * Can be used on most exterior surfaces

About this product

weber CL150 is a water-based algae and fungi cleaner containing carefully selected biocides effective against a broad range of bacterial, fungal, algal, yeast and mould species.

It is used as a masonry cleaner and steriliser to kill green, black and other organic growths on walls and other masonry, particularly prior to the application of decorative finishes.

Note: **weber CL150** (25 litre size) can be supplied tinted for ease of identification of treated areas.

If **weber CL150** is being used to treat finished surfaces, ensure that unpigmented **weber CL150** is specified.

Features and benefits

- Fast acting
- Simple application
- Established track record in varying climatic conditions
- Supplied ready for use
- 25-litre tinted version for easy identification of coated areas

Uses

- Suitable for use in the preparation of surfaces where the **Weber** range of renders and decorative finishes are to be applied
- Can be used on most exterior surfaces, including brickwork, blockwork, concrete, stone, cement based board, gypsum plaster, timber and previously decorated surfaces



Technical data

Water based solution of chemical biocides approved by Health and Safety Executive and by Dept. of Agriculture for Northern Ireland.

Preparation

Organic growths may indicate consistently damp conditions. Sources of moisture should be identified and rectified to prevent reoccurrence. Condensation, rising damp, faulty plumbing or guttering, etc. should be considered as possible sources.

Application

As soon as access is available, drench apply **weber CL150** solution onto the wall surfaces ensuring they have already been tested for soundness.

Where existing bossed render is being removed as part of the preparation, **weber CL150** solution should be applied to the affected areas after the defective render has been removed.

weber CL150 is supplied ready for use.

When treating large areas, **weber CL150** is best applied using a pressurised knapsack or garden sprayer but can be brush applied if areas are limited. **weber CL150** must be left for a minimum of 48 hours to take effect and kill the growing moss and unseen spores. Dead growth should be removed by brushing with a stiff bristle or wire brush or alternatively by power washing.

Wear protective clothing and safety equipment.

Do not apply **weber CL150** in rain or in temperatures below 5°C or above 30°C or if exposure to these conditions is likely within 24 hours of application.

Cleaning

All equipment must be cleaned immediately after use with water. Waste material should not be emptied into drainage systems.

Packaging

weber CL150 is supplied ready for use in 5 litre and 25 litre bottles.

Packaging + coverage

weber CL150 is supplied ready for use in 5 litre and 25 litre bottles.

Coverage is approximately 10 m² per litre.

Note: These estimates take no account of wastage and will vary according to the type of surface involved and method of application.

Storage and shelf-life

Store in cool, dry conditions at a temperature greater than 5°C. Protect from sunlight and sources of direct heat. The container should be kept sealed when not in use.

25 litre plastic drums – stack no more than 2 high.

Shelf life of product stored in correct conditions is 12 months.

Health & safety

Contains 2.1% w/w Alkyl (C12-18) dimethylbenzyl ammonium chloride (CAS No. 68391-01-05) & 2-octyl-2H-isothiazol-3-one.

Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

In case of contact with eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Wear protective gloves/protective clothing/eye protection/face protection. If skin irritation or rash occurs: Get medical advice/attention.

For further information, please request the Material Safety Data Sheet for this product.

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Preparatory key coat for rendering

weberend aid



About this product

weberend aid is a polymer-modified cement and sand mix. The powder blend includes an integral bonding agent so that it requires only the addition of clean water on site.

Technical data

Proprietary mix, designed to be used as an adhesive stipple pre-treatment as described in BS EN 13914-1:2016.

Suitable specification clauses for dealing successfully with most types of substrates are available from our Technical Services Department.

BS EN 13914-1:2016, *Design, preparation and application of external rendering and internal plastering - Part 1: External rendering*, and BS 8000-10, *Workmanship on building sites. Code of practice for plastering and rendering* should be followed at all times.

Uses

- To achieve a good key for rendering onto smooth or otherwise unsuitable but sound surfaces
- Ideal as a pre-treatment for renderings required to resist severe exposure conditions
- Suitable substrates:
 - dense concrete
 - brickwork
 - blockwork
 - masonry
 - clean, sound, well adhered existing render (<19 mm)

Constraints

Do not apply to gypsum plaster or previously painted surfaces.

For applications where the codes of practice recommend sulphate resistance, use only the sulphate-resistant cement formulation.

Features and benefits

- ▲ Equalises suction on mixed backgrounds
- ▲ Provides excellent suction control across both high and low suction substrates
- ▲ Resists the penetration of external water to improve the weather resistance of rendering systems
- ▲ Quality controlled and factory blended to give a consistently high quality product
- ▲ Easy to apply by hawk and trowel and/or roller

weberend aid

Preparation

All surfaces must be sound, clean, dry and free from any material which may impair adhesion.

Scaffolding must be independently tied to allow uninterrupted application. Any faults in the structure, particularly those which may lead to moisture penetration, must be rectified.

Mask around the areas where material is to be applied. Masking tape must be removed before the material has dried out.

Mixing

Mix three parts of **weberend aid** with one part of clean water in a clean container, using a suitable drill with whisk attachment. For smaller quantities a hand whisk may be used.

After mixing, leave to stand for approximately 5 minutes before remixing to a workable consistency, adding more water if necessary.

Application

With a hawk and trowel or an open hopper spray gun, apply a tight layer 2 – 3 mm thick to the substrate. Texture the surface using a well loaded roller.

Apply no more than 2 – 3 m² before texturing. **It is important that the final texture achieved should be a deep, heavy stipple finish with a textured depth of 5 – 10 mm.**

For difficult substrates, such as those with low suction or those retaining dust after cleaning, scrub **weberend aid** well into the surface with a small hand brush and then texture with the brush or roller.

Cure for 2 – 3 days before over coating.

During rapid drying conditions such as hot climates, curing with a fine spray of clean water may be necessary.

Protection

Protect from unfavourable weather conditions during application and early curing.

Good practice

Do not apply:

- If frost is forecast within 24 hours of use
- In damp/wet conditions
- In temperatures below 5°C or above 30°C
- On elevations in direct sunlight or where the substrate is hot

Cleaning

Keep equipment clean by washing frequently during application and wash immediately after use with clean water. Do not dispose of waste material into drainage systems.

Packaging

weberend aid is supplied in 25 kg bags.

Coverage

For each mm of thickness, you will require approximately 1.4 kg per m².
When trowel applied to a thickness of 2 – 3 mm, coverage is approximately 7.5 m² per 25 kg bag.

Note: These estimates take no account of wastage and will vary according to the type of substrate. Allowance must be made for extra material required on high suction or uneven substrates.

Storage and shelf life

When stored unopened in a dry place at temperatures above 5°C, shelf life is 12 months from date of manufacture.

Health and safety

Contains cement (Contains chromium (VI). May produce an allergic reaction). Harmful by inhalation. Irritating to eyes and skin. Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing, gloves and eye/face protection.

For further information, please request the Material Safety Data Sheet for this product.

Technical services

Weber's Customer Services Department has a team of experienced advisors available to provide on-site advice both at the specification stage and during application. Detailed specifications can be provided for specific projects or more general works. Site visits and on-site demonstrations can be arranged on request.

Technical helpline

Tel: 08703 330 070
e-mail: technical@netweber.co.uk

Sales enquiries

Weber products are distributed throughout the UK through selected stockists and distributors. Please contact the relevant Customer Services Team below for all product orders and enquiries.

UK and Ireland

Tel: 08703 330 070
Fax: 0800 014 2995
e-mail: sales@netweber.co.uk

Saint-Gobain Weber

Dickens House, Enterprise Way, Maulden Road, Flitwick, Bedford MK45 5BY, UK
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weberpral M

Through-coloured, one-coat render

- * For application to most suitably prepared brick and blockwork
- * Offers a variety of ways to achieve distinct architectural features
- * Durable and weather resistant

About this product

weberpral M is a one-coat, ready-mixed, cementitious, weather resistant, external decorative, through-coloured render, suitable for most types of brick or blockwork. The through colour and one coat features allow fast application with shorter programme periods, thereby reducing associated scaffolding and site costs and permitting the earlier completion of ground works.

Features and benefits

- One coat for fast application and short programme periods
- Formulated to be spray applied by render pump for faster application
- Through coloured for low maintenance – decoration not required
- Weather resistant
- Algae resistant
- Can be finished in a number of textures and styles
- BBA approved certificate no. 17/5464

Uses

- Weather resistant decorative finish for new build or refurbishment projects
- Produce a range of finishes:
 - Scraped
 - Sprayed
 - Rough cast
 - Dry dash
- Create ashlar and quoin features
- Use for entire elevations, feature panels or smaller areas ie. garden walls

Colours

weberpral M is available in a range of 24 colours. Specifiers should consult the **weberpral M** colour chart and, whenever possible, obtain samples prior to specification.



ALGAE
RESISTANT



18 Scraped
to 15mm
APPLICATION
THICKNESS



FOR MANUAL
AND MACHINE
APPLICATION



5-30°C
APPLICATION
TEMPERATURE



5-5.5L
ADD WATER



1m²
COVERAGE AT
15mm THICKNESS



Technical data

weberpral M has been designed for spray application and can be applied up to 28 mm thick in two passes. Manual application is also possible.

weberpral M has excellent weather resistance and durability, whilst allowing the structure to breathe.

Substrates must have a good mechanical key suitable for rendering. **weberend aid** must be used to provide an artificial key on substrates such as smooth concrete.

Preparation

Scaffolding must be independently tied to allow for an uninterrupted application. Any faults in the structure, particularly those which may lead to moisture penetration must be rectified.

To avoid dampness and discolouration rendering should be avoided below DPC and within 150mm of ground level.

All surfaces must be sound, clean, suitably dry and free of any material which may impair adhesion. The substrate should be suitable for rendering with a designation III mix (1:1:6).

Arrises and feature stops may be formed using clean straight timber battens.

Alternatively, suitable beads may be used but, with a scraped finish, these will be evident and must be accepted as a feature.

Please note that scraped renders may, during the scraping process, tend to spall away from the nose of some angle beads. Refer to Weber's Technical Department for advice on suitable profiles.

Mask as required. Edging tape must be removed before the material has dried.

Expansion joints should be included as required by the substrate and carried through all applied materials.

Do not apply to gypsum plaster or previously painted surfaces

Mixing

weberpral M should be mixed with 5 - 5½ litres of clean water using either a suitable render spray machine, drill and whisk or tumble mixer.

To ensure colour consistency, the materials required for complete and adjoining panels should be of the same batch number or be thoroughly mixed together before use.

For best results, use as little water as possible and mix to give a workable consistency.

Note: **weberpral M** may stiffen on standing. Remix product to regain a workable consistency but do not add any more water.

Application

To maintain colour consistency, panels should be completed in sequence around the building.

We recommend that beads are fixed using our dedicated adhesive - **weberend bead adhesive**. This can set up to 4 times faster compared to standard mortar options - setting sufficiently within two hours (at 20°C) to allow rendering to progress.

Spray roughcast

Depending on the required finished thickness, a first pass is spray applied to a minimum thickness of 10mm and ruled level. A second texture pass is applied between 1 and 2 hours after the first to form a single monolithic coat with a minimum thickness of 15mm. Total finished thickness should be between 15 and 25mm.

Scraped finish

weberpral M should be applied to the suitable substrate in a one or two-pass operation to a minimum thickness of 18mm, or to a maximum thickness of 28mm. (2 - 3mm will be removed by the scraping process to give a finished thickness of minimum 15mm, maximum 25mm.) It should then be ruled level and allowed to harden for between 5 and 16 hours. Sometimes a longer period may be necessary depending on weather and background conditions.

When **weberpral M** is green (set but not fully hardened) it should be scraped with a circular action using a scraping tool. It is essential that this is done carefully and evenly, ensuring all laitance is removed and that no part is missed. Thoroughly brush down the surface of the scraped finish using a soft bristle brush.

Dry dash finish

Apply **weberpral M** by render pump or traditional methods in the usual manner. For 15mm render thickness apply an initial pass to a nominal 10mm, rule level. When sufficiently hard but still green (typically between 1 & 16 hours later depending upon climatic conditions and suction provided by the substrate) apply a secondary butter/dash receiver coat 5mm in thickness. Please note for a 20mm finished thickness apply a 15mm initial pass, followed by 5mm under the same guidance.

Attempting to dash into a full thickness of render, not applied in layers may lead to slumping and loss of the aggregate into the render.

A flowing edge must be maintained to the render which must not be allowed to skin over before the stone is applied.

On completion aggregate should be lightly tamped into the render with a wood or plastic float to ensure that a good bond is obtained. All aggregate should be washed and reasonably dry. The optimum size of aggregate is between 4 - 8mm.

Ashlar features

Apply **weberpral M** in two passes to an initial thickness of between 20mm and 28mm to allow for an Ashlar recess from 2mm deep up to a maximum of 10mm.

Ensure a minimum of 15mm thickness is maintained at the base of the recess for sheltered to moderate exposure.

Rule level and spatula flat. When the material is still green, scrape the surface as detailed in the guidance notes for scraped finish.

Immediately after scraping, mark out and cut the Ashlar effect using Ashlar tools to produce the desired profile. Thoroughly brush down the surface of the render using a soft bristle brush.

weberpral M will set and gain hardness in a similar manner to conventional renders. Protection from unfavourable weather conditions should always be provided during application and early age curing.

Do not apply

- If frost is forecast within 24 hours of use
- In damp/wet conditions
- In temperatures below 5°C or above 30°C
- On elevations in direct sunlight or where the substrate is hot

Curing

Curing with a fine spray of clean water may be necessary during rapid drying conditions. In hot climates, curing as above is essential for 3 - 5 days after application.

Packaging + coverage

weberpral M is supplied in 25kg paper sacks.

When applied to achieve a finished thickness of 15mm, coverage is 1m² per 25kg bag.

Note: These estimates take no account of wastage and will vary according to the type of surface involved and method of application.

Storage and shelf-life

When stored unopened in a dry place at temperatures above 5°C, shelf life is 12 months from the date of manufacture printed on the side of the bag.

Health & safety

Contains cement (Contains chromium (VI)). May produce an allergic reaction. Harmful by inhalation. Irritating to eyes and skin. Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing, gloves and eye/face protection. Keep out of the reach of children. For further information, please request the Material Safety Data Sheet for this product.

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weberend protect

Highly hydrophobic protective coating for renders

- * Highly water and weather resistant
- * Prevents build-up of dirt and other contaminants
- * For use with **weberpral M**, **weberpral D** and **webertherm XP** systems

About this product

weberend protect is a surface treatment for protecting render from water and liquid ingress.

Prevents ingress of most types of surface contamination, including water, oil and graffiti whilst maintaining the surface aesthetics and allowing the substrate to breathe.

Features and benefits

- Repels water - water beads on the surface resisting water ingress and protecting the building substrate, keeping it cleaner and drier
- Long lasting protection - provides an invisible defence against the elements whilst retaining the original appearance of the substrate
- Vapour permeable - allowing the substrate to breathe
- Algae, moss and mould growth is caused by water ingress. **weberend protect** helps to reduce water ingress and protect the substrate.
- Facades look better for longer - dirt, stains and other atmospheric contaminants do not adhere to the surface
- Helps to prevent deterioration of surfaces increasing substrate lifespan and reducing maintenance costs
- UV resistant - coating does not degrade in UV light
- Non-toxic - VOC free

Uses

- Can be used as a protective coating for **weberpral M**, **weberpral D** and **webertherm XP** systems



With **weberend protect**



Without **weberend protect**

Technical data

Chemical composition	Aqueous fluoropolymer dispersion
Density	1.0kg/lit @ 25°C
Flashpoint	>55°C
Chemical resistance	Mild acids and alkalis, water and de-icing salts
Coverage	Dependant on porosity
VOC content	0.0g/litre

Preparation

Any existing cracks in the substrate should be repaired prior to application. Ensure that the substrate to be treated is not damp - moisture content should be = or <5% to a depth of 10mm. The substrate should be clean, free from dust, dirt, oil, efflorescence, organic growth and old paint films.

Application

Always test apply on a small, discreet area of the substrate before commencing work.

weberend protect may be applied by using low pressure spray, brush or roller. When treating highly textured surfaces (such as dash or roughcast finish) we recommend using a low pressure spray for application. Ensure application from bottom to top on vertical surfaces taking care not to let the product run.

Subsequent applications must be applied "wet on wet" within 10 minutes of previous application.

Once a fully treated surface is dry **weberend protect** cannot be re-applied as there will be a loss of adhesion. Due care should be taken during application to avoid spillage or over spray onto abutting fixtures and fitting, on non-porous surfaces wipe off any residue before the product dries. Consideration should be given to masking and protection components that will easily absorb the product.

Do not apply

- If rain is expected within 4 hours
- During rain or frost or when surface and air temperature is <5°C and >30°C
- In damp/wet conditions (substrate moisture should be a maximum of 5%)

Curing

Water repellence is evident after initial curing but may take up to 7 days to reach 100% effectiveness.

Note: The technical data provided is based on laboratory tests and some variations may occur on large areas and substrates of an uncertain nature.

Do not allow the applied product to dry between applications.

Packaging

weberend protect is supplied in 5L and 25L containers.

Coverage

Coverage when treating **weberpral renders** is typically 5m² per litre. For other materials the coverage will be dependent on substrate type and will vary according to porosity.

All surfaces must be treated in saturation in 1-3 applications "wet on wet" applied to ensure 100% product effectiveness.

Note: These estimates take no account of wastage. Treating a small trial area is recommended to calculate true consumption

Storage and shelf life

When stored unopened in a dry place at temperatures between 5°C and 30°C shelf life is 24 months from date of manufacture.

Health and safety

Read label before use.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



Product MSDS

Available for download at uk.weber/download-center