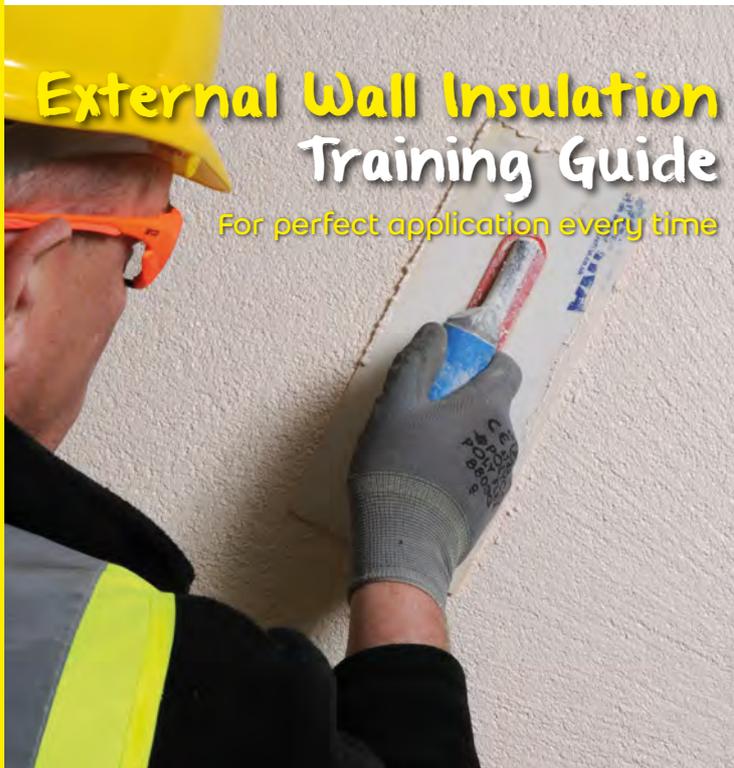


External Wall Insulation Training Guide

For perfect application every time



we
care

 **weber**
SAINT-GOBAIN

Introduction...

This Guide supplements the training provided by Weber and is a quick reference to the key stages in the installation of **webertherm** External Wall Insulation systems.

For full technical details on all **webertherm** systems, please refer to Site Application Guides, and our website **www.uk.weber**.

Weber can provide technical and application support for all house types including a wide range of non-traditional and system built construction types.



2.

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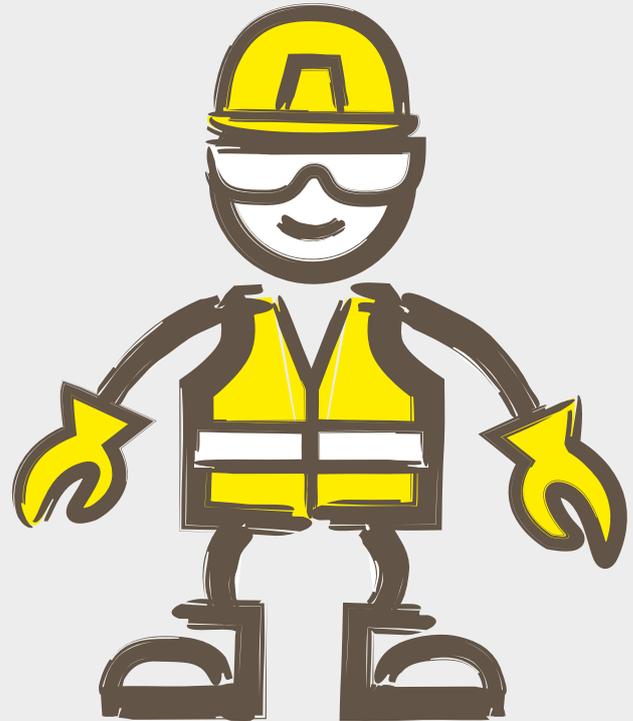
Health and Safety...

Health and safety is the number one priority at Weber.

This applies to our behaviours on construction sites, in our factories and offices, and on the road.

We also want to ensure that our customers are safe – so please follow the use of Personal Protective Equipment shown in this Training Guide at all times.

**IF IT'S NOT SAFE
IT'S NOT WEBER**



Preparation...

Before you start make sure you know what standard is required..

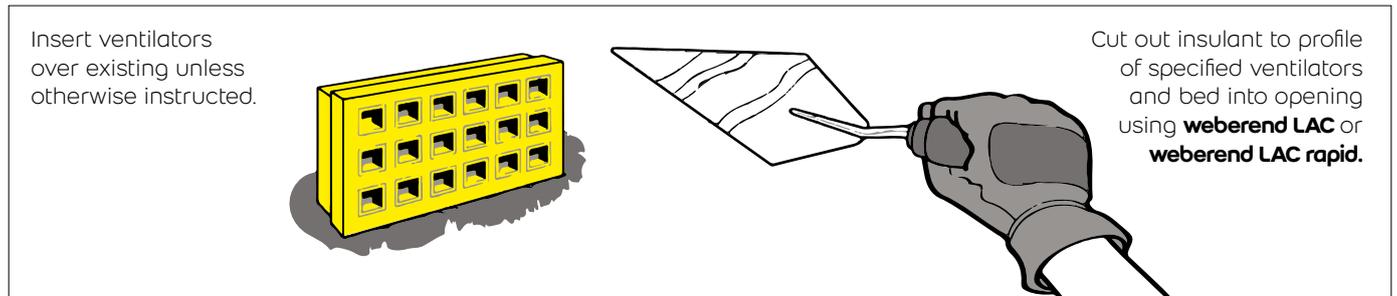
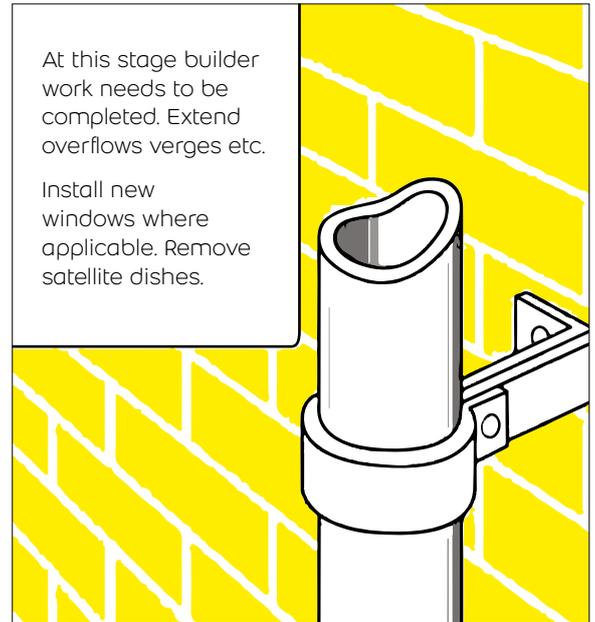


...you know the size of the job and that the access is suitable.



Check that the materials on site are correct for specification and are stored correctly.





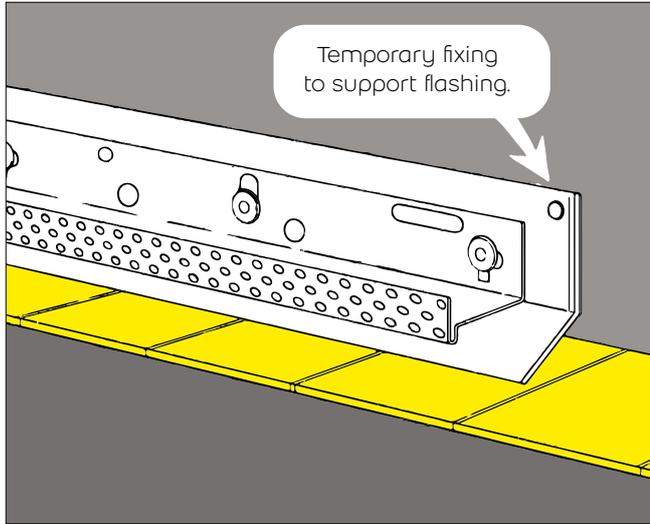
Preparation... beads, sills and trims



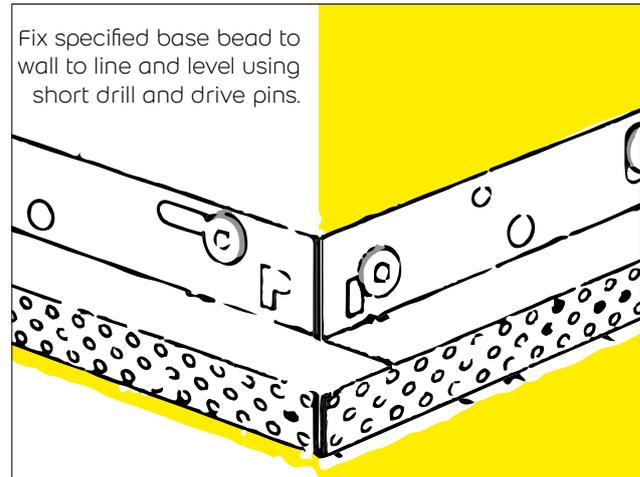
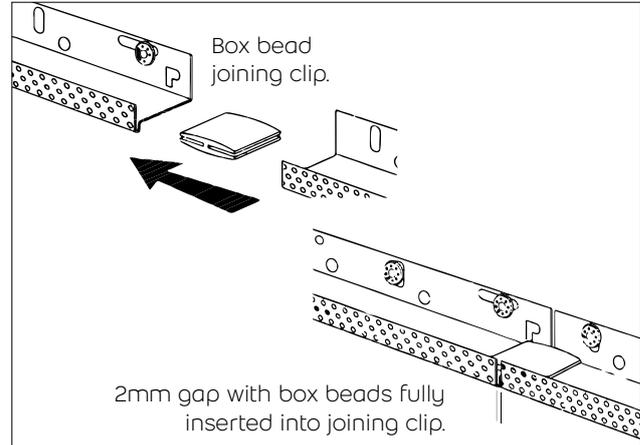
Preparation... base bead fixing



For below DPC, Weber has specific detailing recommendations. Please refer to Site Packages for details.

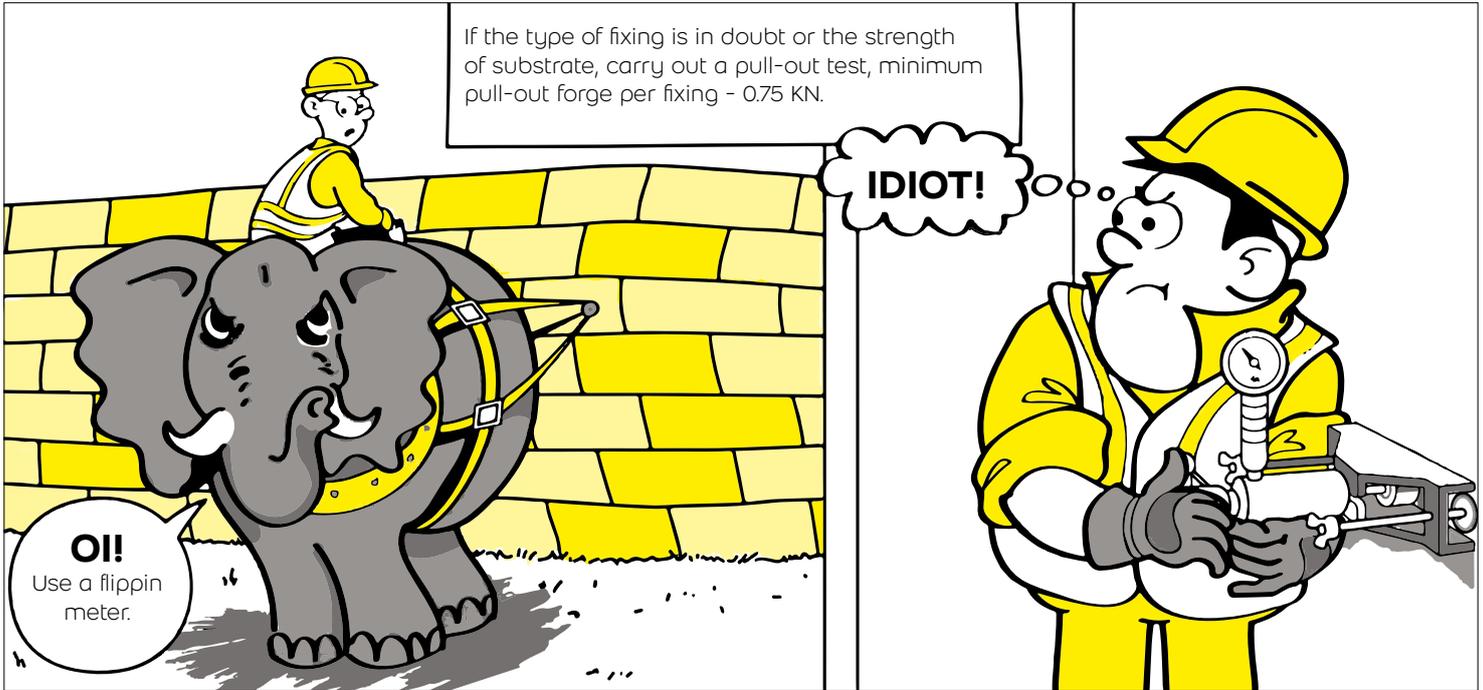


Where new lead flashings are required, surface fix these behind base bead profile. No need to raggle into wall.



Preparation... **fixings**

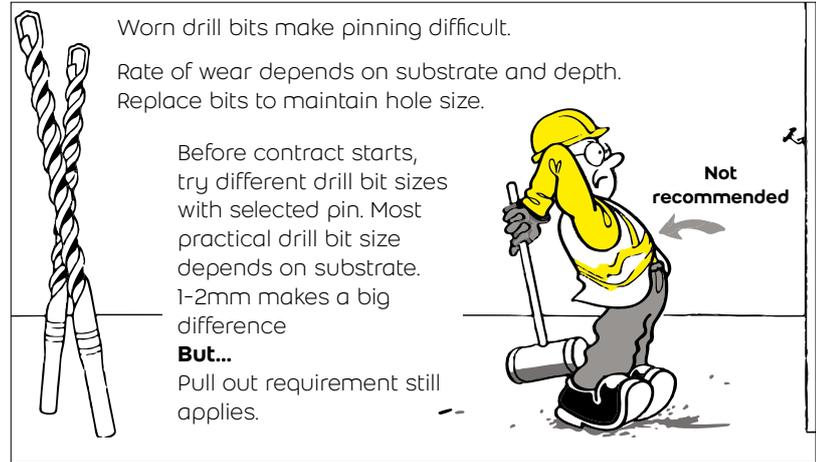
If the type of fixing is in doubt or the strength of substrate, carry out a pull-out test, minimum pull-out force per fixing - 0.75 kN.



All insulation boards should be fixed with five fixings per board. Cut boards should be fully supported with fixings at sides and corners as appropriate.

Fixing types are contract-specific with thermal fixings being the most commonly required.

Non-standard substrates may require special fixings – if in doubt consult Weber for advice.





For full boards, fixings should be 150mm from all board edges.



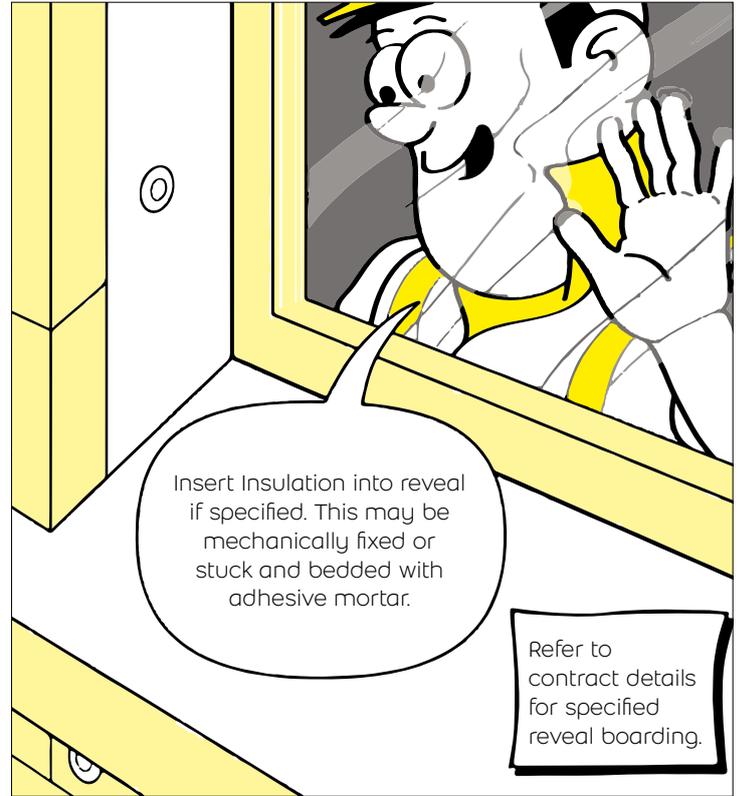
Follow the expansion joints

Movement or risband joints (existing).
Cut insulation on line of joint after boarding.

Supplement fixings
as required after
cutting.



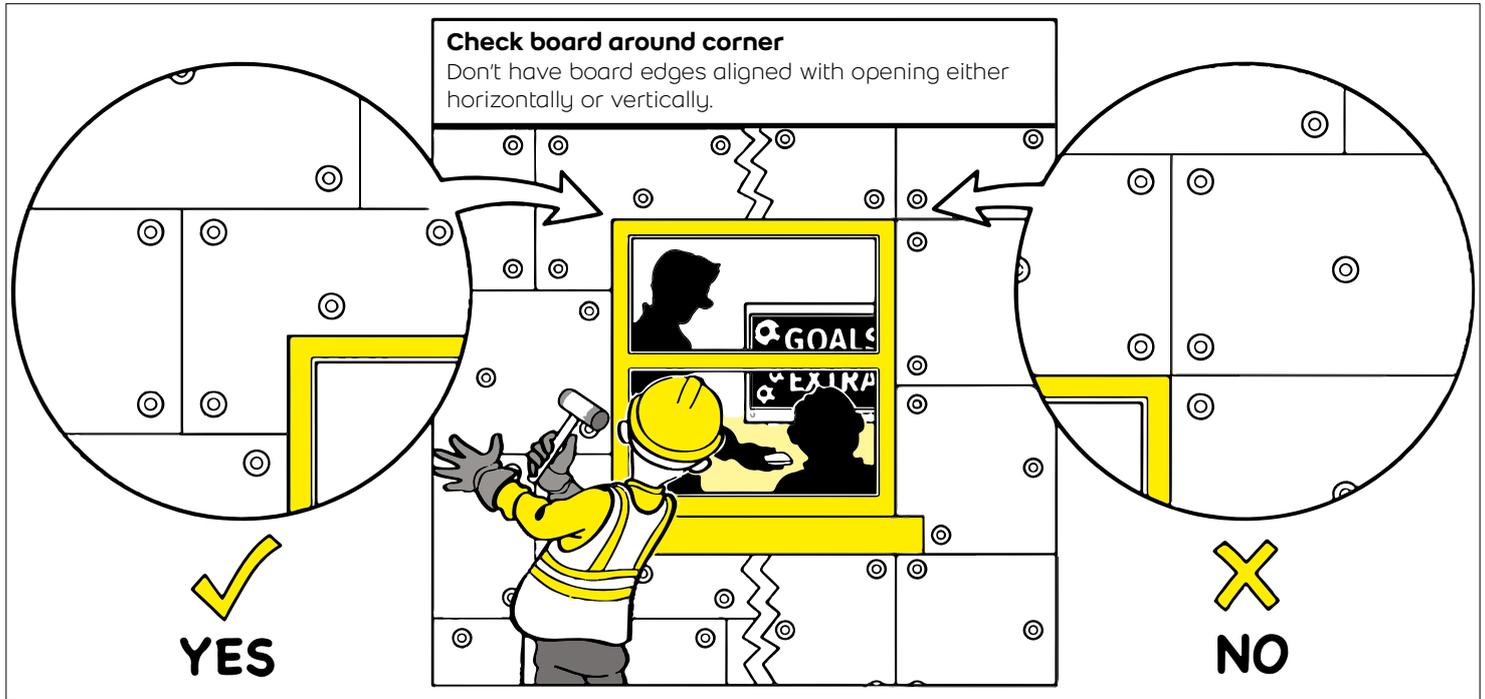
Minimum 250mm cut



Insert Insulation into reveal
if specified. This may be
mechanically fixed or
stuck and bedded with
adhesive mortar.

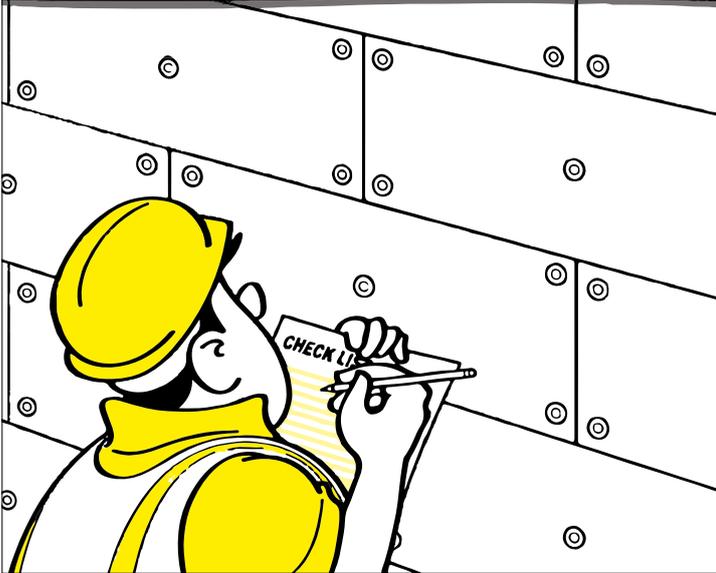
Refer to
contract details
for specified
reveal boarding.

Preparation... **boarding around windows**

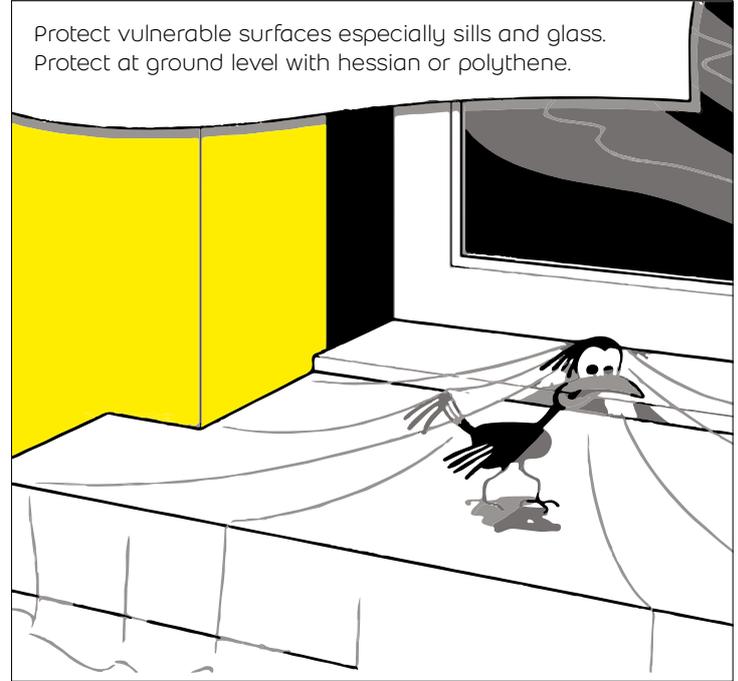


Preparation... preparing for rendering

Before rendering starts, check boarding pattern and alignment, beads, fixing and trim.



Protect vulnerable surfaces especially sills and glass. Protect at ground level with hessian or polythene.

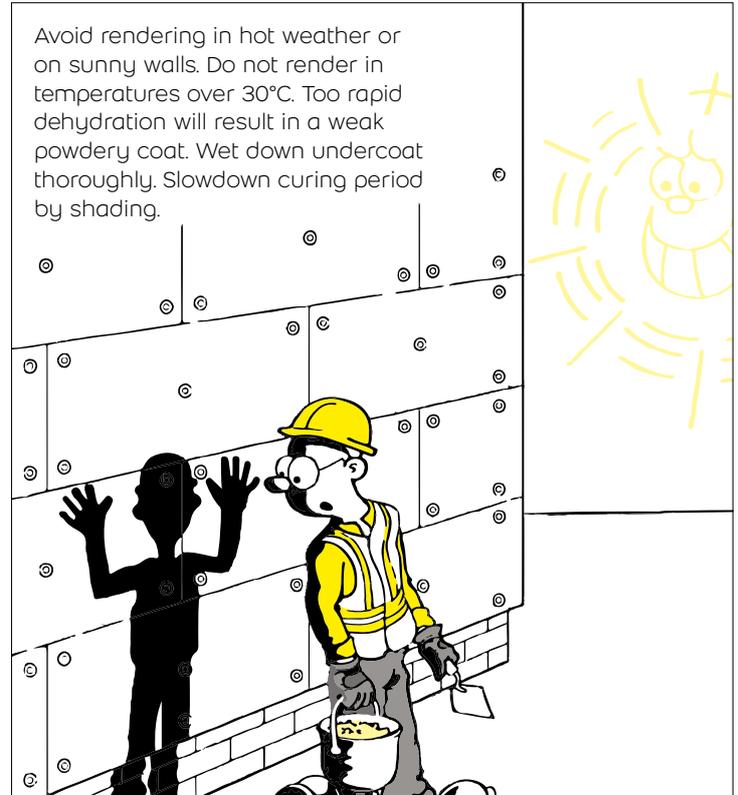


Preparation... weather working

All Weber mortars are available factory-batched and dry-bagged. They are pre-mixed in a dry state and only need water, no other additions required.



Avoid rendering in hot weather or on sunny walls. Do not render in temperatures over 30°C. Too rapid dehydration will result in a weak powdery coat. Wet down undercoat thoroughly. Slowdown curing period by shading.



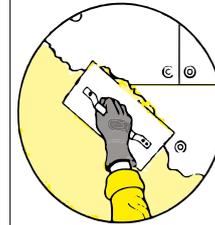
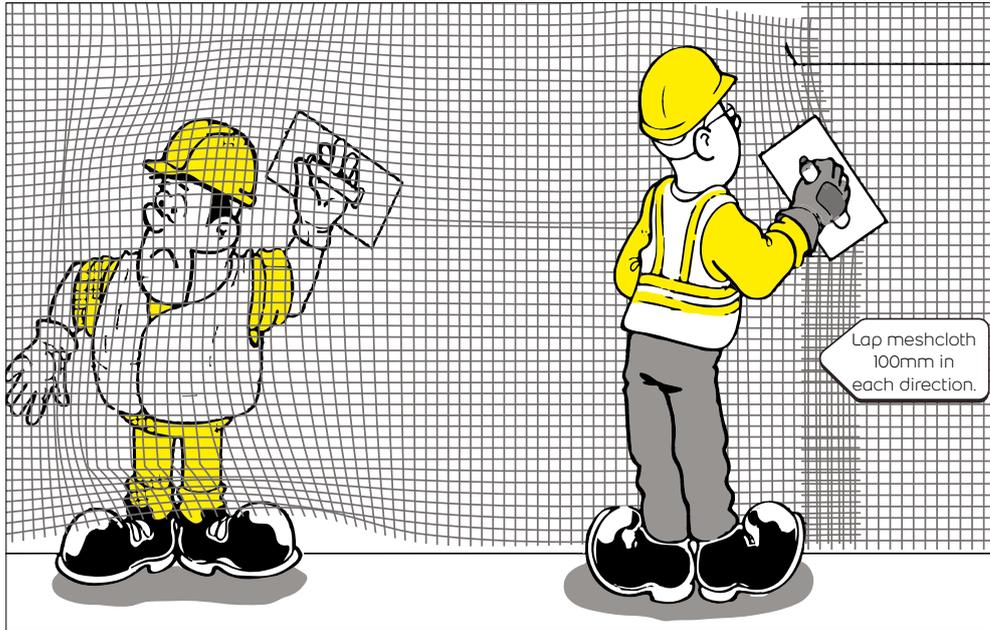
Don't render in freezing weather. Temp must be 5°C and rising. Protect new render from frost. Don't apply to frosted surfaces. Don't use frozen material.



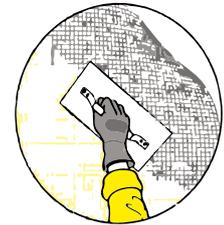
Don't render in wet weather or if background is saturated, otherwise wash-off will ruin the coat. Lime bloom or staining will spoil the appearance. Bond will be weakened.



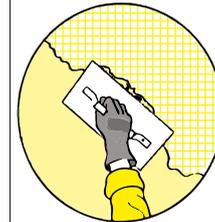
webertherm XM... **basecoat**



Apply first pass of **weberend LAC** or **weberend LAC rapid** onto insulation. First pass should be 3mm thick.



Lay meshcloth into first pass of render whilst still wet.



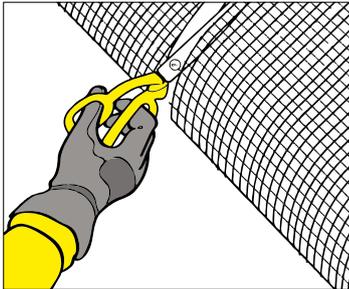
Apply second pass of render when first pass has taken up. Ensure mesh pattern is completely obscured. Second pass should be 3mm thick.



Allow first coat of **weberend LAC** to dry for 36 hours, 24 hours if **weberend LAC rapid** is being used, before next stage.



Meshcloth is cut using scissors or a stanley knife.



webertherm XM... rendering



If a further render coat has been specified (dash receiver, scraped top coat or brick effect finish) **weberend LAC** or **weberend LAC rapid** base coat should be comb scratched.



Because the insulation effectively prevents drying stresses being taken by the substrate (as in normal brick or block background) the scratch coat must be allowed to dry and shrink fully before subsequent coats are applied. Recommended minimum 36 hours. The low shrinkage characteristics of Weber renders minimise risk of cracking.

Note: 3-7 days curing for synthetic finishes.



webertherm XM... topcoat finishes

Synthetic finish

Ensure **weber PR310** primer is fully dried. If applying a decorative finish, apply only to the depth of the aggregate in the product, e.g. 1.5mm.



Dash top coat

Apply **weberend PTC** and once levelled, dashing aggregate can be applied. Ensure all areas are evenly covered.



webertherm XM... RB brick effect

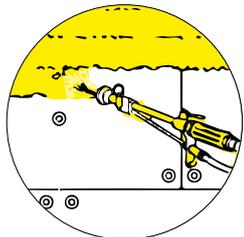
Brick effect render. Apply **weberend RBB** (render brick base coat) 7mm thick over fully cured **weberend LAC** or **weberend LAC rapid**. When taken up, apply 3mm of **weberend RBF** (render brick face coat). Texture of brick face can be achieved with a soft bristle brush whilst wet. When taken up, begin to cut back to mortar coat in pattern specified. Use spirit levels and straight edges for best effect.



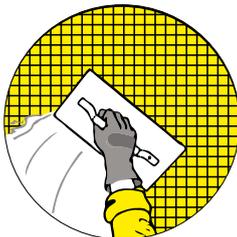
Clean tools often with water.



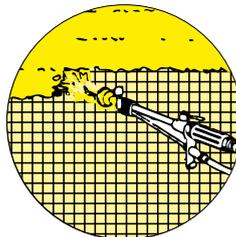
webertherm XP...



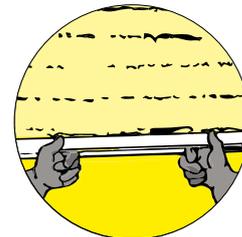
Pump first pass of initial render coat onto insulation blocks. First pass should be 6-7mm thick.



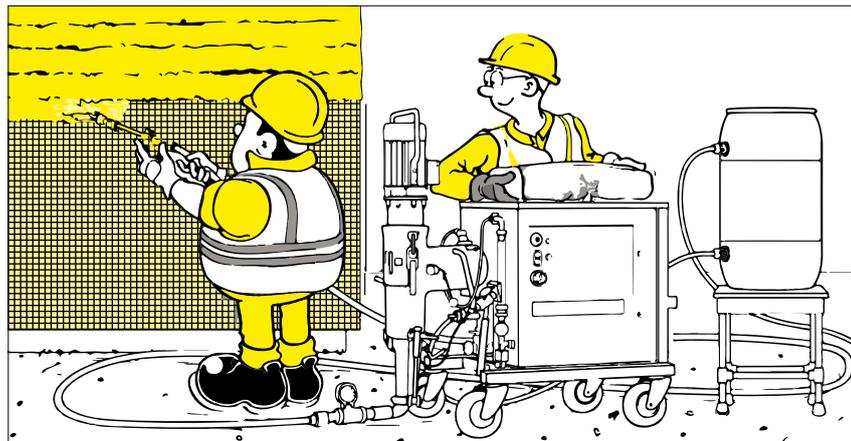
Lay meshcloth into first pass of render whilst still wet.



Pump second pass of render when first pass has taken up. Ensure mesh pattern is completely obscured. Second pass should be 8-9mm thick.

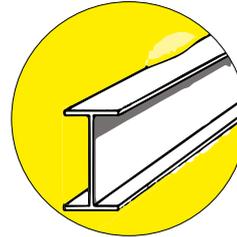


Level second pass with short trowel or straight edge.

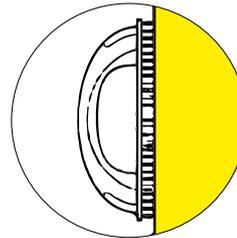


webertherm XP.. **scraped finish**

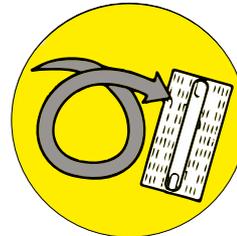
Between 5-16 hours after application, (depending on weather) scrape back to 12mm (remove 2-3mm) with scraper tool.



Use an 'I' section scraper to identify and remove any high points in render.



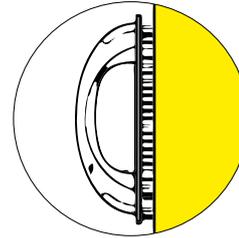
Always keep scraper tool flat to render surface.



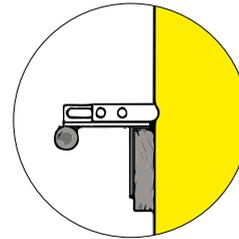
Use a regular, circular scraping motion with even pressure to ensure a consistent finish.

webertherm XP... light ashlar details

Scrape render back to 15mm. Cut ashlar **2-3mm** deep.



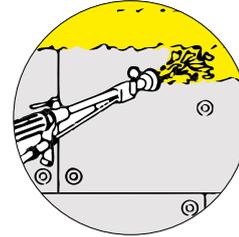
Scrape back to leave a minimum of 15mm



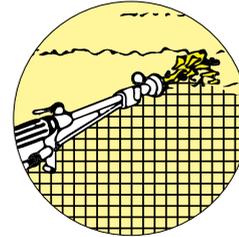
Use a straight edge to guide ashlar tool on long straight cuts.

webertherm XP... spray rough cast

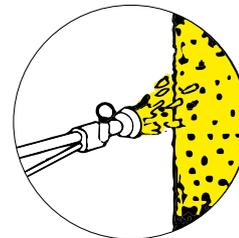
Pump render to 6mm, lay in mesh, pump second application of render to 6mm, render pump rough cast.



Pump first pass 6mm thick.



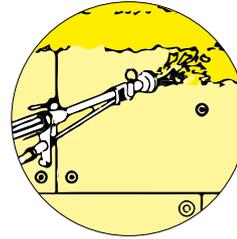
Lay in meshcloth then pump second pass 6mm thick.



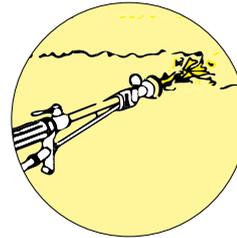
Adjust pump pressure and nozzle size to achieve desired rough cast effect.

webertherm XP... dry dash finish

Pump render to 6mm, lay in mesh, pump second application of render to 6mm, roughly level then dash at once.



Pump first pass 6mm thick.



Lay in meshcloth then pump second pass 6mm thick.



Rough level then dry dash at once.

webertherm XP...





Following this guide can help you achieve the perfect finish. More information is available from our website.

www.uk.weber

Our other activities...



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@SGWeberUK

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

 +44 (0) 8703 330070

 mail@netweber.co.uk

 www.uk.weber

