NoMorePly
The Ultimate Surface

nomoreply.co.uk

STS Ltd
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Technical Data

Render Carrier Board Product & Installation Guide

High Performance & High Strength Render Carrier Board

NoMorePly is a heavy-duty fibre cement board highly recommended by many leading rendermanufacturers.

Its high strength and density create an impact resistant, dimensionally stable and weatherproof construction board which lends itself for use as an external render carrier.

The simple fibre cement composition provides a perfect surface on which to receive thin coat render systems such as the brands stated below.

By using the 12mm NoMorePly you have the assurance of a solid foundation meaning not only a stunning render finish, but also the peace of mind that it will last for years and remain crack free.

Composition of board:
Fibre Cement (Sand, Cement, Water & Organic Fibres).

Suitable for the following construction types:
Timber Frame, Lightweight Steel Frame and Modular/O ffsite.

Specification

Description	Measurement	Square Meters (M2)
Board Dimensions & Weight	1200mm x 800mm (15.2kg) 2400mm x 1200mm (45kg)	0.96 (15.83kg/m2) 2.88 (15.83kg/m2)
Test Standard	BS EN 12467:2016 +A1:2016	
Pull Through Testing	Mean result: 1650 Newtons	
Pull Out Testing	Mean result: 840 Newtons	
Density	1.23g/cm3	
Racking Strength	Category 1 (BS EN 5268-61 & BS EN 594:2011)	
Thermal Conductivity	0.24149 W/M.k (BS EN 12667:2001)	
R Value	0.0493 M2K/w	
Durability/Min Life Expected	30 Years	

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Hints & Tips

Do You Recommend vertical or horizontal batten framework?

NoMorePly must have a cavity behind, vented at the top and bottom so we recommend fixing the boards to vertical battens. In some applications where you are trying to achieve a specific build up or match an existing cladding detail a cross batten can be used. This includes horizontal

battens being fixed to the building substrate and then vertical battens fixed to the horizontal battens (ensure fixings between battens are suitable for the application and cladding/render weight).

Do you recommend specific vertical batten centres?

In most cases battens at 600mm centres is suitable although if the building is exposed to higher wind load or exposure, we would recommend vertical battens fixed at 400mm centres. See Illustrations numbers 3&4.

Should I use a breather membrane?

For most timber frame buildings, a breather membrane is required to be installed onto the external building walls prior to battens being installed. We would always recommend checking with your local building control or project architect/structural engineer to confirm the need and/or type of this membrane.

Does the NoMorePly have Thermal Mass?

Yes, due to density of the Fibre Cement composite of our boards they offer an excellent thermal mass, increasing the thermal properties of your building.

Is NoMorePly Fire Rated?

Yes, the STS Constuction board is Class A1 Fire Rated (non-combustible) and has up to a 2-hour fire rating on specific build ups. Please contact us to discuss your specific build up requirements.

Do I need a gap on the joints?

STS recommend a 3-5mm gap on all sides of the boards. Mostly render boards are either fixed to a timber batten, insulation, or a timber/steel frame building.

Whilst timber is a cost effective and a fast build option it is one of the most susceptible substrates to movement. Any amount of moisture or heat can cause the timber frame/substrate to twist or move. If the boards are butt-jointed without a gap and the timbers move it cause the boards to push/grind against one another and will either push one boards up, down, out or in. By leaving a 3-5mm gap you are allowing for that slight movement and as the render systems incorporate a mesh layer little or no movement will be transferred trough to the topcoat. See Illustrations numbers 3&4.

Do I have to render onto NoMorePly immediately after installation?

NoMorePly can be left exposed to the elements for up to six months without issue. However, to achieve a watertight finish, we recommend applying Nullifire FS703 Fire Rated Silicone between the boards at the time of installation. This step also removes the need to tape the joints.

If rendering will begin shortly after installation, it's still important to fill all gaps between the boards with Nullifire FS703 before applying the basecoat. This prevents the joints from filling with basecoat and ensures that the silicone provides the necessary movement flexibility - helping to reduce the risk of cracking in the new thin coat silicone render system.

Before rendering, always make sure that NoMorePly boards are dry, dust-free, and undamaged for optimal adhesion and performance.

Can the STS Boards go down to a block/brick wall course without ventilation?

No. the cavity must be vented top and bottom If the original build up means the boards are flush with the outside of the wall below you will need to ensure battens are put in place to allow for a minimum of a 15mm airflow gap. See Illustrations number 8.

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Does NoMorePly have good pull-out & pull-thought strength?

Yes. NoMorePly have been tested by many fixing manufactures and due to the high density of the boards composite it offers both high pullout and pull-through strength. This means that in many cases this board can be used for EWIS sytems/Installations as well as a standard render carrier board.

Does NoMorePly contain MgO?

No. NoMorePly is Fibre Cement (sand, cement, organic fibres and water) and is one of the most endorsed materials for construction boards in the industry for both internal and external use. NoMorePly does NOT contain fibreglass mesh in so is fully recyclable.

How close can I screw to the edge of NoMorePly?

We recommend fixing 20mm in from edges although we have also successfully tested fixing at 15mm from the edge of the board. See Illustrations numbers 3&4.

When fixing NoMorePly what fixings should I use?

When fixing into a timber framework we would recommend a 3.95x38mm, self-drilling and self-countersinking screw or similar.

For fixing into all SFS framing we would recommend a 4.8x38mm, self-drilling and self-countersinking, wingtip fixings or similar.

For both timber and SFS applications the fixings should be either stainless steel or suitably treated against corrosion and approved for extemal use.

Example of Self Drilling Screw

Example of Wingtip Screw

How many fixings are required for NoMorePly?

400mm Centre Battens

28 No. fixings per 2400x1200mm sheet when fixed in a horizontal or vertical orientation. See Illustrations numbers 3&4.

600mm Centre Battens

27 No. fixings per 2400x1200mm sheet when fixed in a horizontal orientation. See Illustrations numbers 3&4.

What size battens should I use?

The most common size batten size is a 60mm wide by 25mm deep The key is to ensure the batten is wide enough to allow for a 3-5mm gap between the boards and for a safe and secure fixing to be in both boards. This applies in England and Wales. For Scotland, Northern Ireland and Republic of Ireland the minimum cavity depth should be 50mm.

Can I apply sand & cement render onto NoMorePly?

Although the bonding surface of STS boards is very good for any cement-based products, the problem you may have with this type of render is cracking on the joints. Generally, a silicon thin coat render system is recommended for render boards because it is much more flexible and forgiving to movement Cement, however, sets completely solid.

What blade is best for cutting NoMorePly?

We would always recommend using the STS Poly Crystalline Diamond (PCD) blade. This will ensure a clean, low dust cut and will last significantly longer than any other multipurpose circular saw blade.

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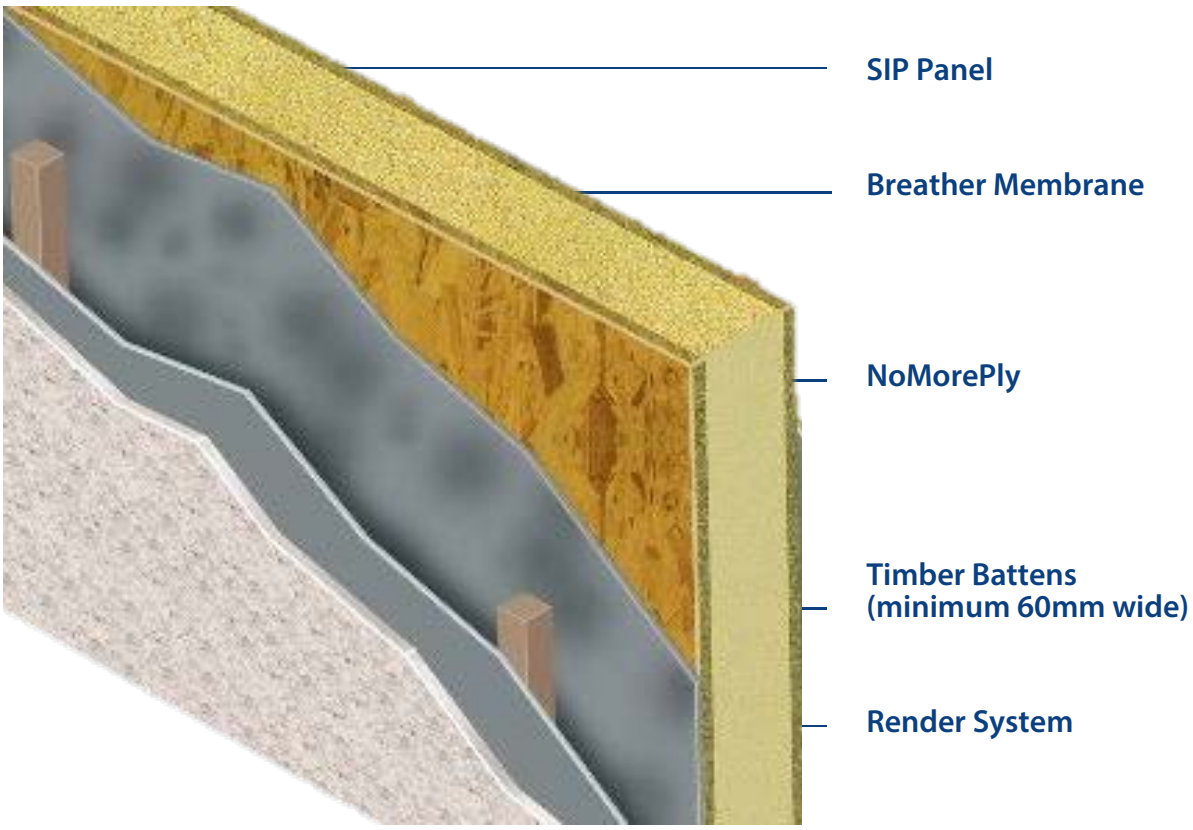
How do you fix NoMorePly to SIP Panel Systems?

Unlike standard timber frame SIP panels do not have internal stud work but the outer OSB layer is structural enough to fix the render carrier system directly to it.

Like any timber sheathing it will require a breather membrane and then battened out vertically at either 400mm or 600mm centres and proceed as you would in a standard timber frame build up.

Illustration 1



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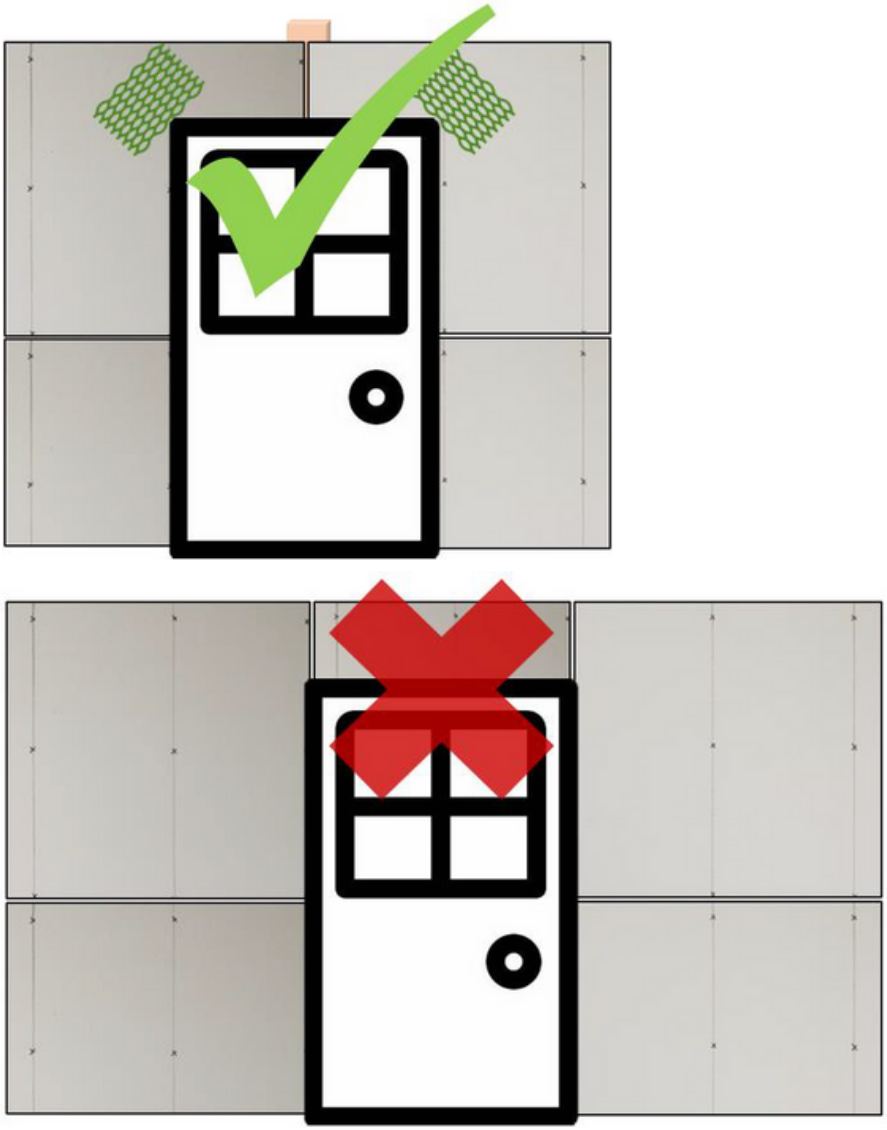
Typical Fixing Details. Window/Door Corner Detail

Joints MUST NOT be aligned with the edge of the door or window, but boards should be cut around the opening and fixed on to a minimum 25x60rnm batten in the centne of the opening.

Most render manufacturers recommend using either a single or double layer of render mesh overthe key stress points such as corners of the opening.

The boards must be supported by a minimum of a 25x60mm batten all the way around the opening to ensure a stable support to render on to.

Illustration 2



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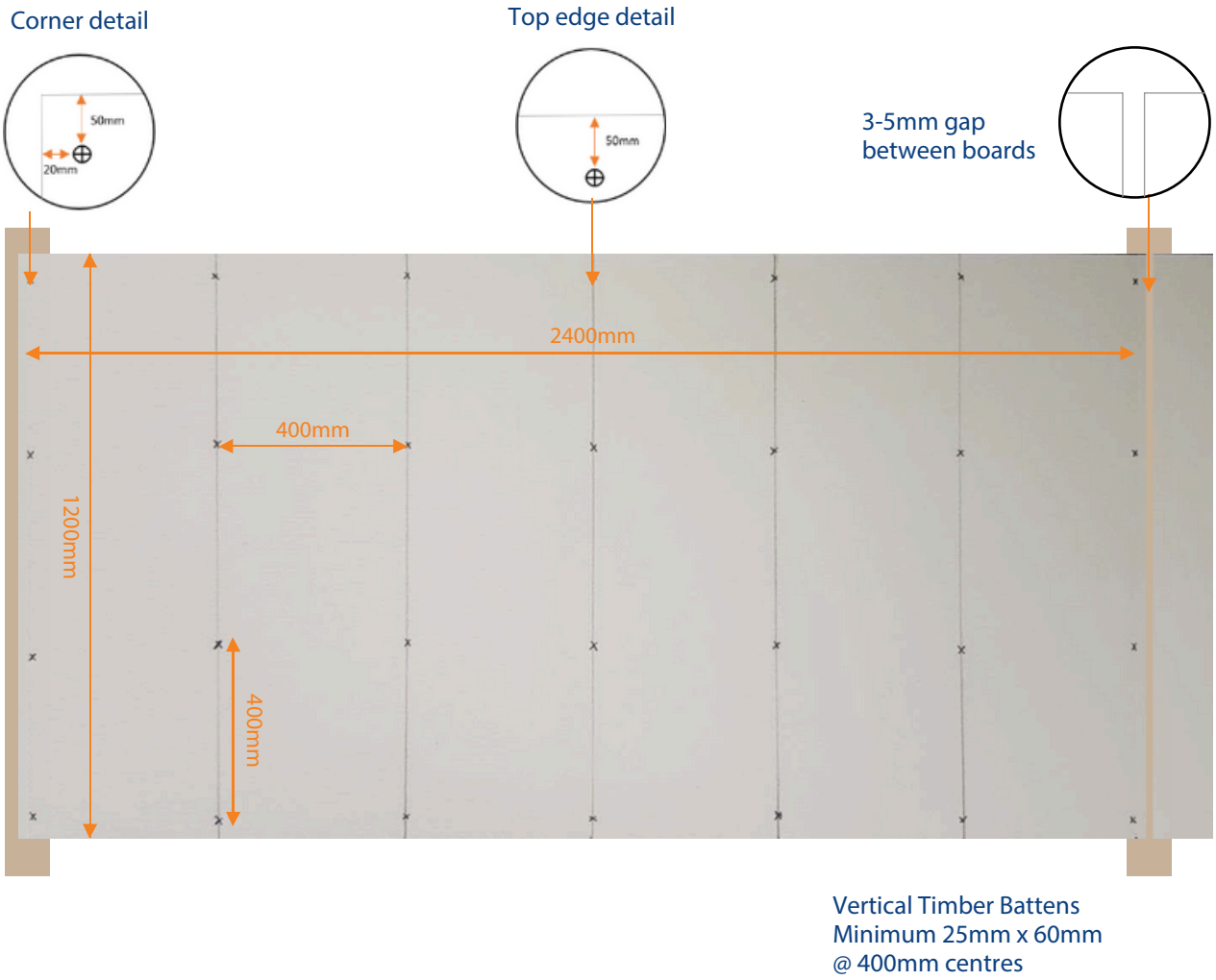
Typical Fixing Details. External Application

400mm Centres. Horizontal Orientation. Vertical Battens.

Following the fixing pattern on this drawing for both horizontal and vertical board orientation on to 400mm centre battens. This applies in England and Wales. For Scotland, Northem Ireland and Republic or Ireland the minimum cavity depth should be 50mm.

Illustration 3



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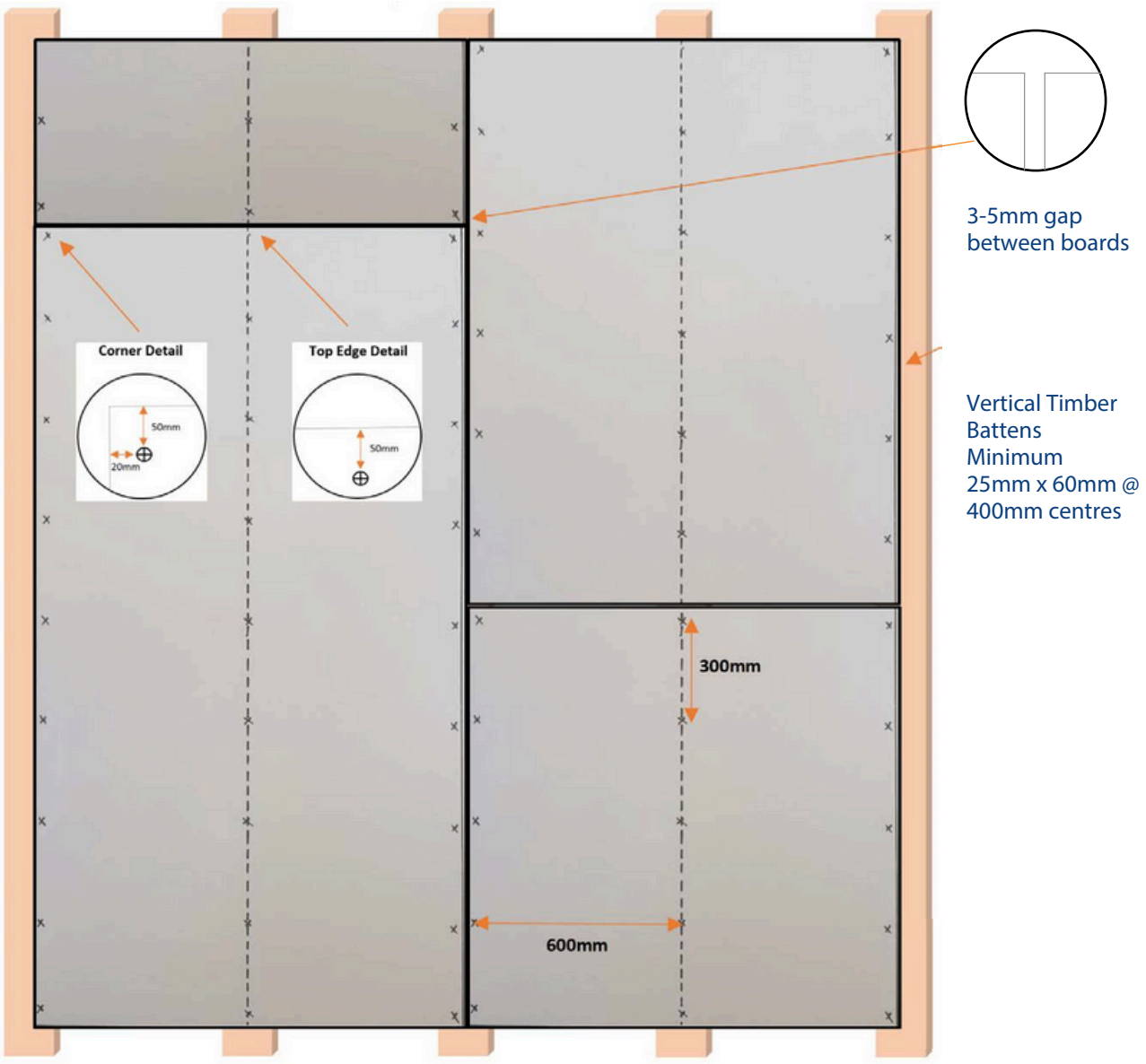
Typical Fixing Details. External Application

600mm Centres. Vertical Orientation. Vertical Battens.

Following the fixing pattern on this drawing for both horizontal and vertical board orientation on to 600mm centre battens. This applies in England and Wales. For Scotland, Northem Ireland and Republic or Ireland the minimum cavity depth should be 50mm.

Please Note: All battens must be fixed directly through to the timber studwork/frame of the Building. Most buildings are not built to 600mm centre now, but if over boarding and existing substrate it is crucial that the battens are firmly fixed into the building.

Illustration 4



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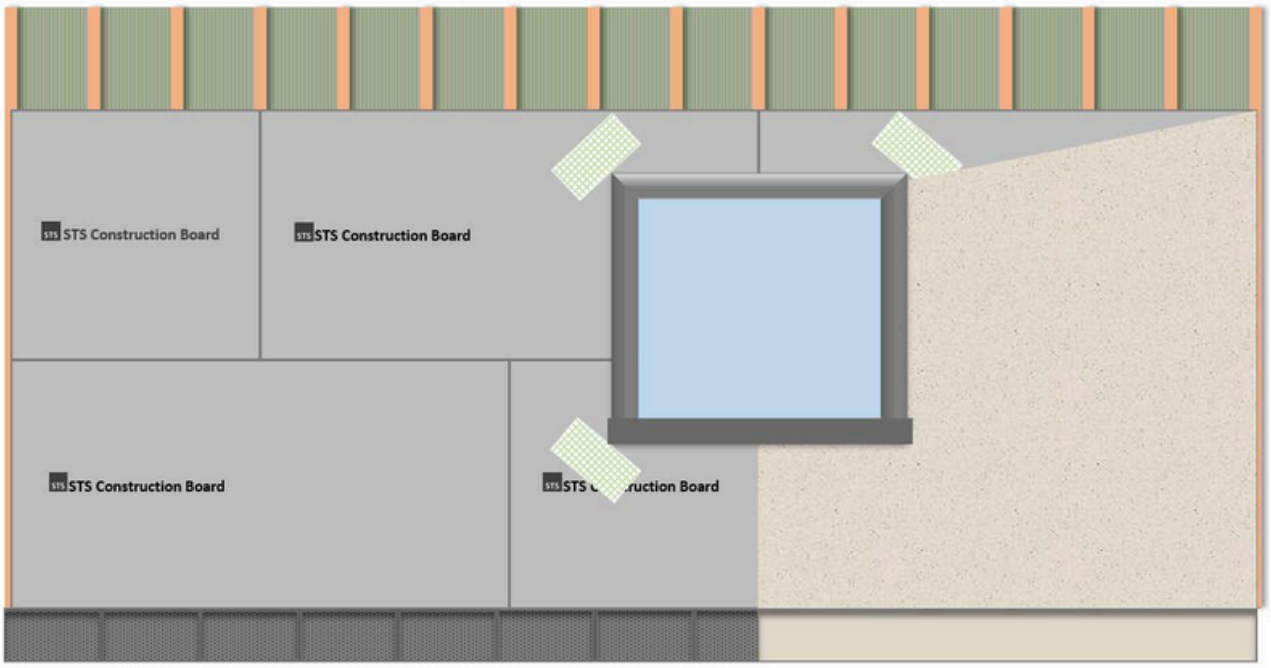
Typical Fixing DetailsExternal Application

Cornplete Wall Build Up & Window Illustration

Illustration 5



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Typical Fixing Details. External Application
External Corner Detail

Illustration 6

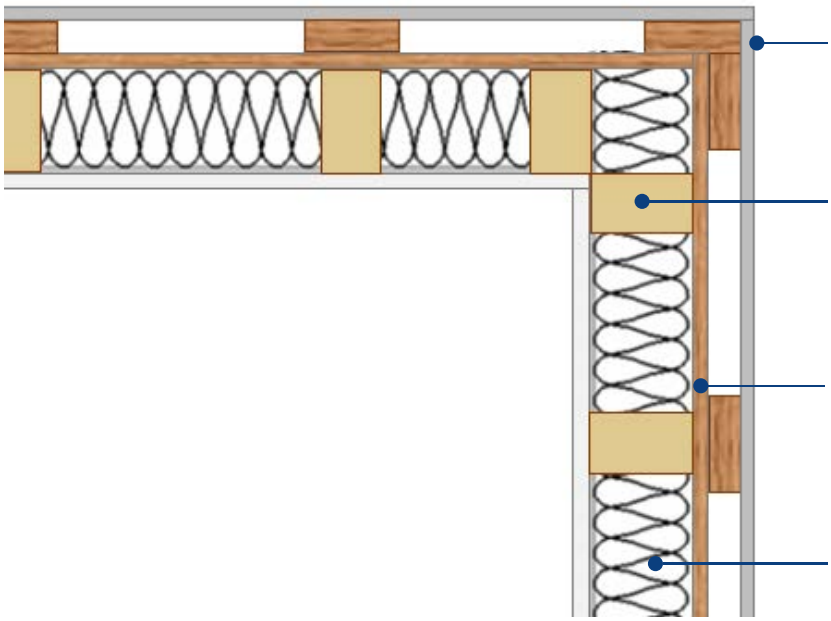
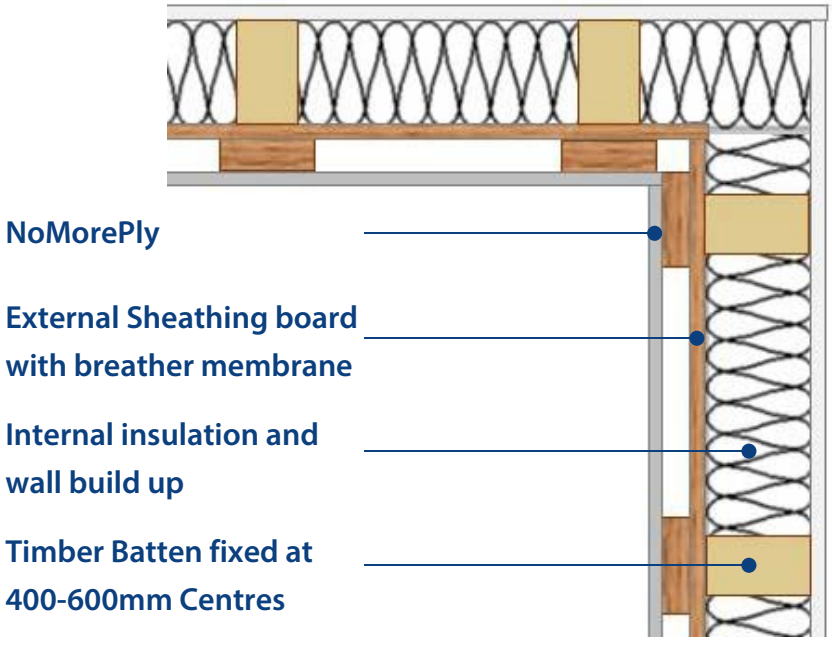


Illustration 7
Internal Corner Detail



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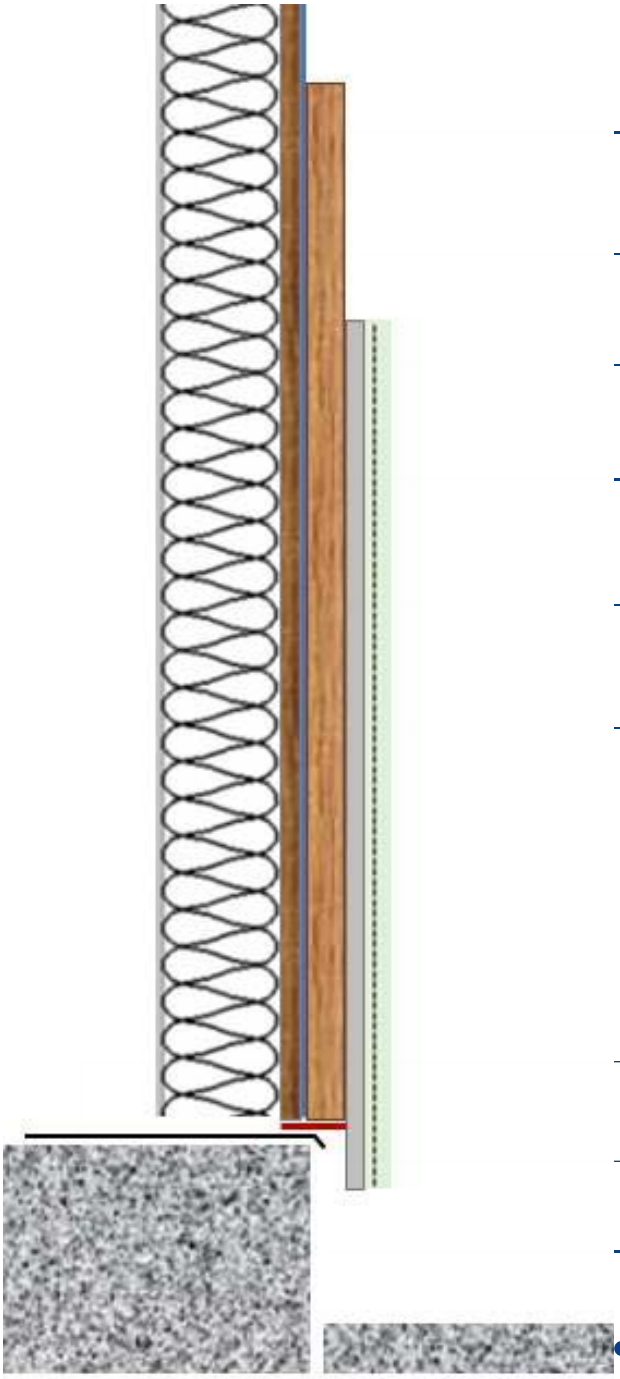
Typical Fixing Details. External Application
Base Formation Detail

Illustration 8



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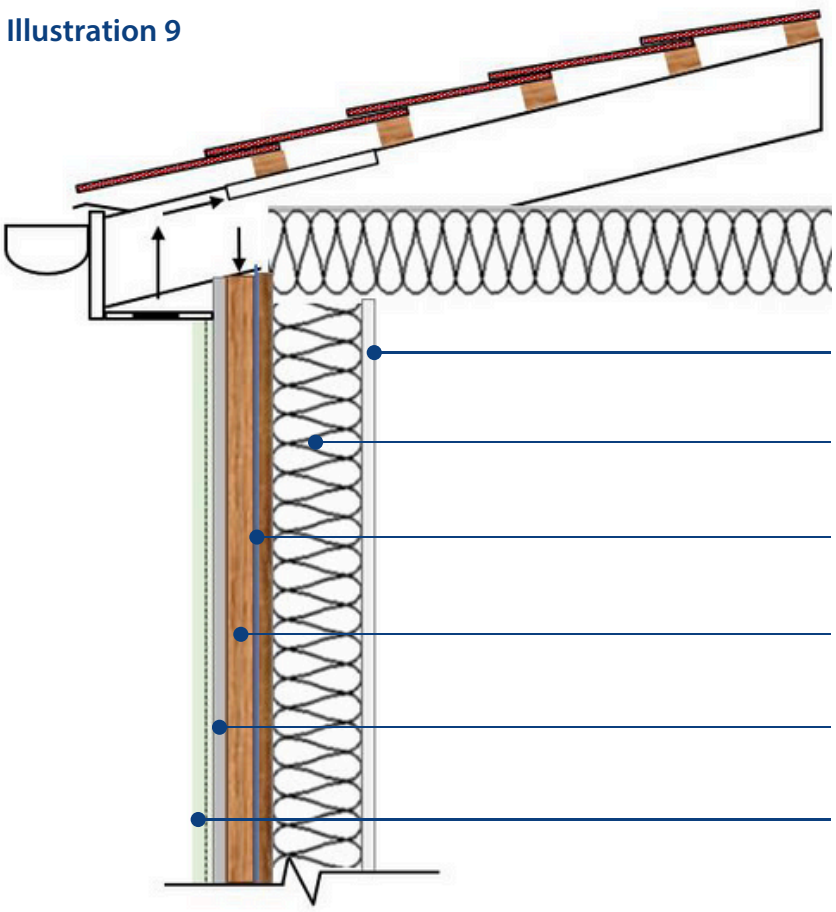
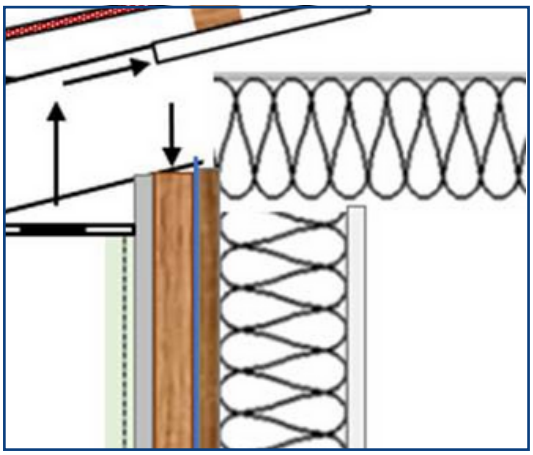
Typical Fixing Details. External Application
Eaves Detail

Illustration 9





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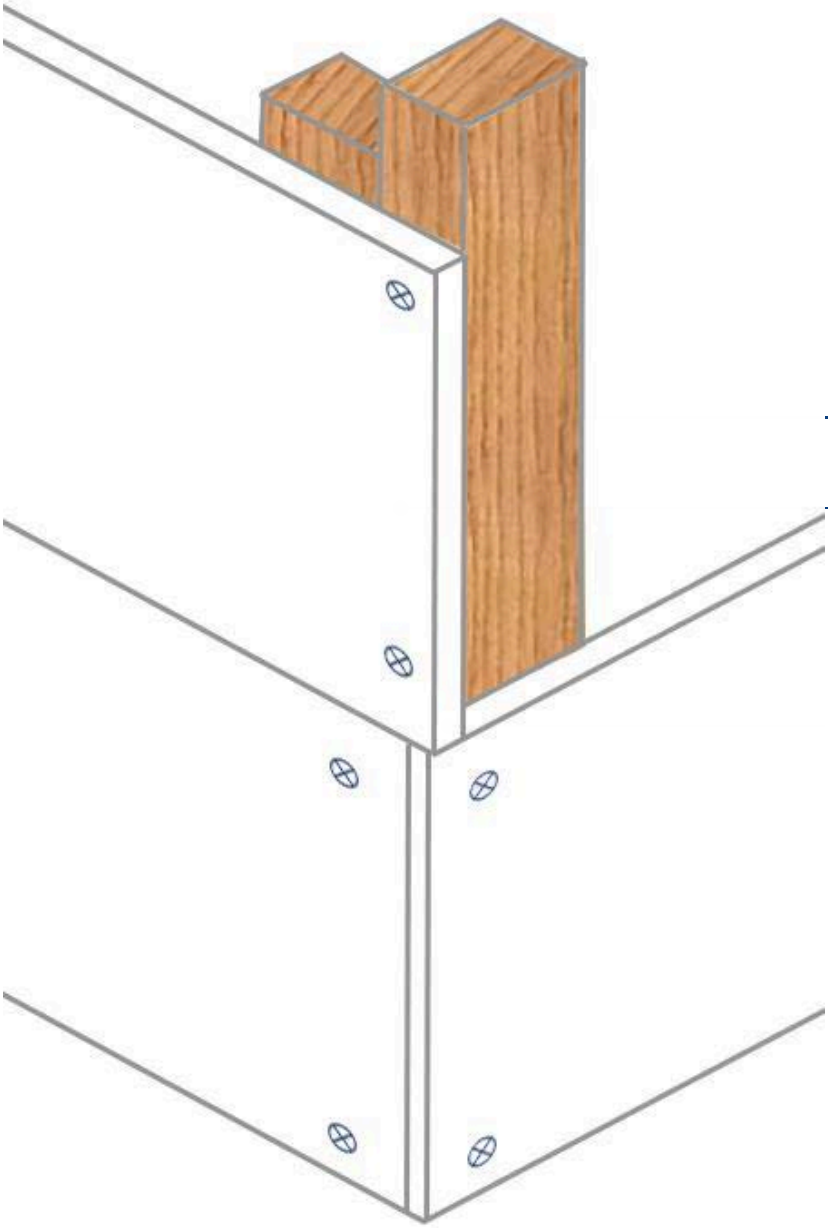
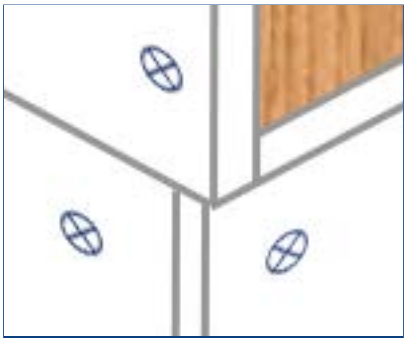
Typical Fixing DetailsExternal Application

Staggered Corner Joint Detail

Illustration 10





Timber Batten

NoMorePly

Staggered Corner Joint
Always leave 3-5mm gap between boards.

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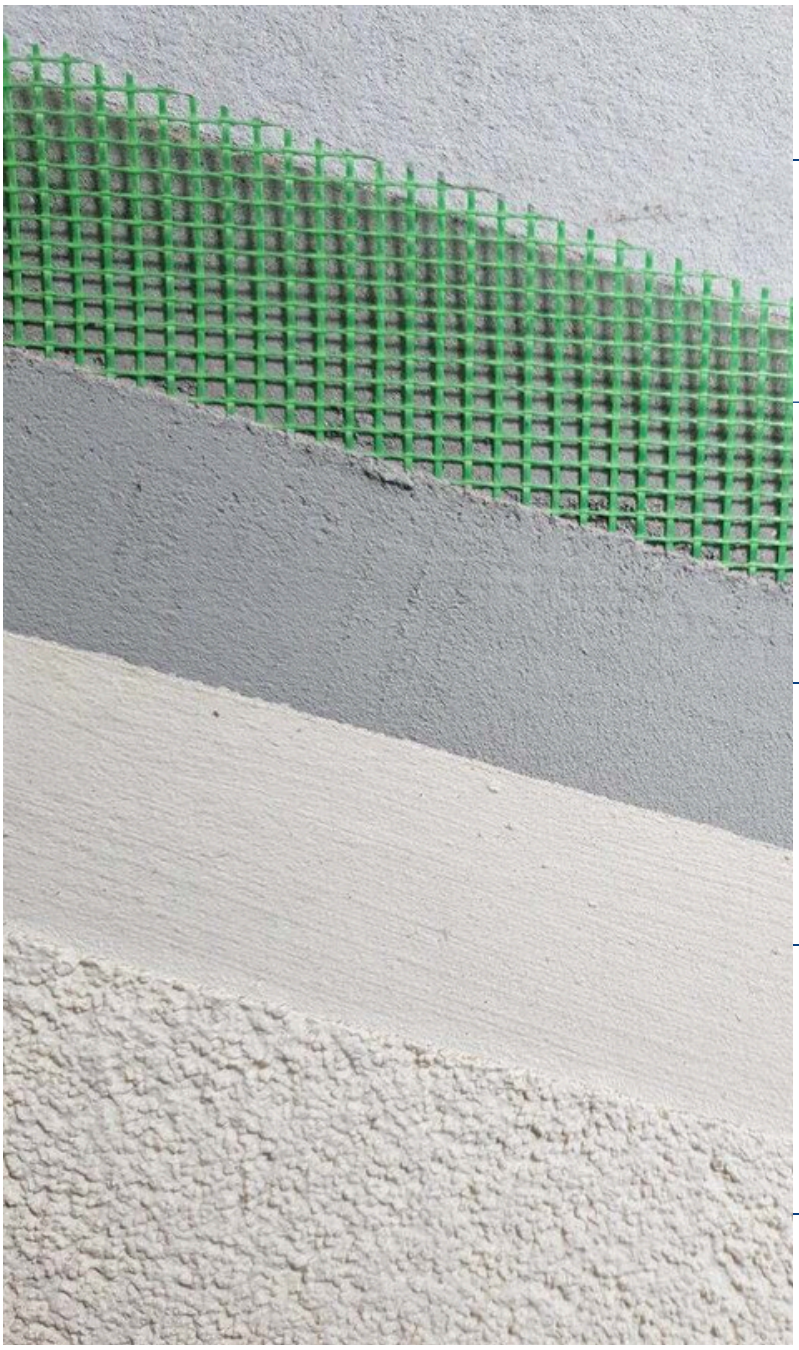
Typical Fixing DetailsExternal Application

Typical Silicone Render Build Up

Illustration 11



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Render Mesh
Embedded in base coat

Render Base Coat

Primer

Render Finish

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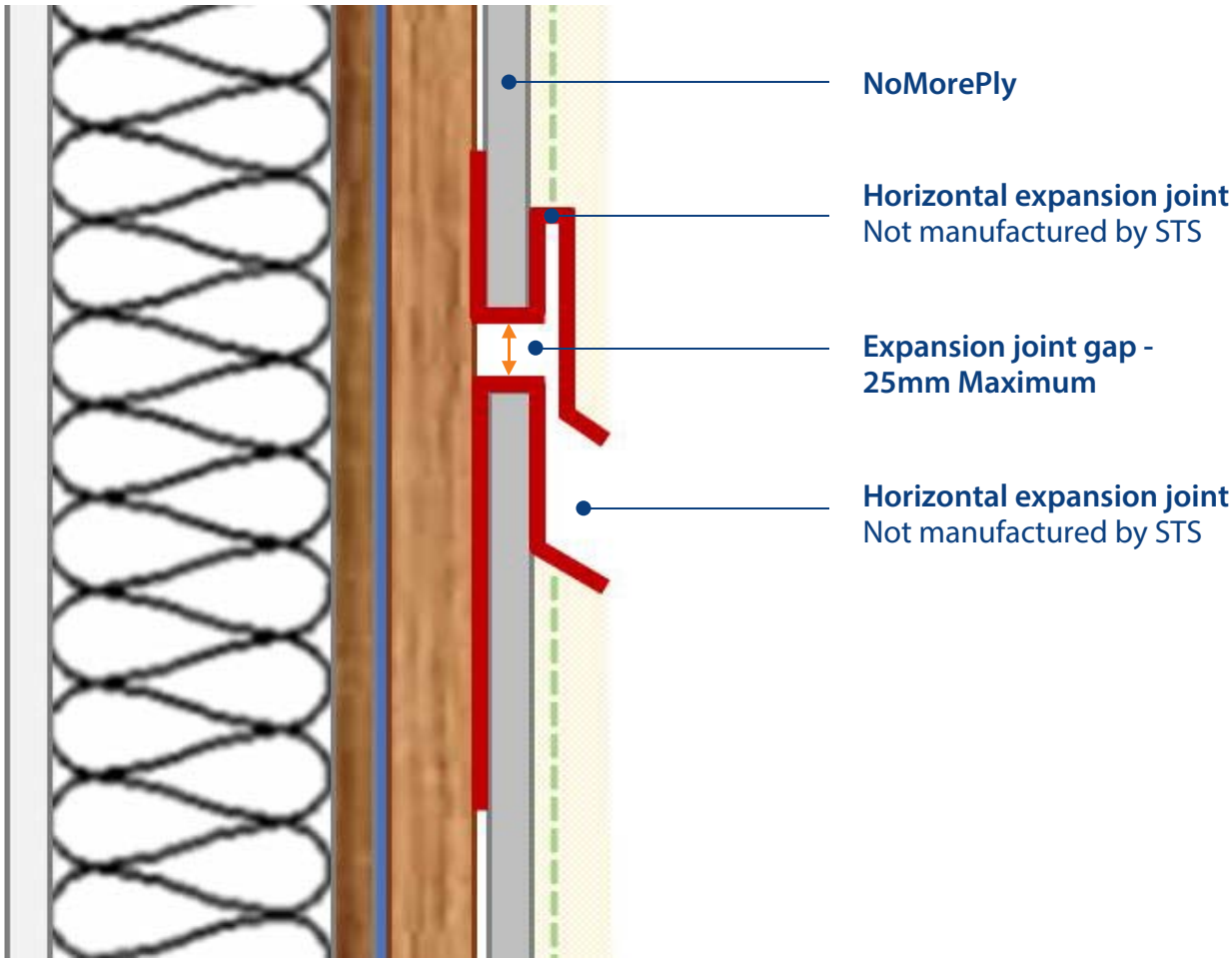
Typical Fixing Details. External Application
Expansion Joint Detail

Illustration 12



Note: For most structures, horizontal and vertical movement joints are required at 15m spans (maximum) or to match movement joints in the substrate behind. The specific use, spacing and detail of expansion joints should be clarified with the render manufacture, architect or building control prior to installing.

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