



A1 FIRE
RATED



RENDER
READY



HIGH
STRENGTH



12mm Construction Board

External **Render Carrier** and High Strength **Internal Wall** Board

BUILDING BETTER



STS / Building Better

A1 FIRE
RATED



WATER
RESISTANT



RENDER
READY



IMPACT
RESISTANT



HIGH
STRENGTH



QUICK
& EASY



Professionals choose **STS 12mm Construction Board** for its range of uses and for peace of mind

A1 Fire Rated

A1 fire resistant board means that your structure will be safer in the event of a fire outbreak, potentially saving people's lives.

Water Resistant

Makes ideal partition walling in damp or wet areas, such as bathrooms. It's also weather resistant, so can be exposed to poor weather on site during the construction phase without concern. A weather protective coating is required for permanent exposure.

Render Ready

Faster to fit than laying blocks, it's an ideal alternative to masonry substrates for domestic and commercial applications.

Impact Resistant

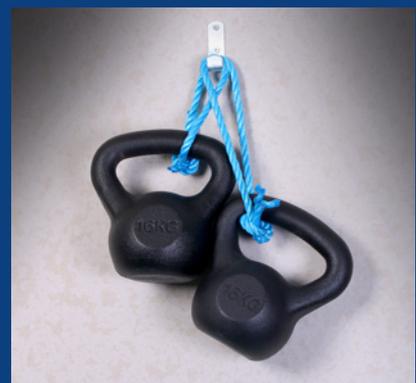
A stronger build means these boards can withstand surface impact, making the finish more durable and longer lasting, especially in high traffic areas prone to damage.

High Strength

Made up of compacted cement with fibres, STS 12mm Construction Board has exceptional strength properties. It also accepts wall mounted fixings without the need to secure to stud beams.

Quick & Easy

Boards are easily fixed to timber or metal stud work, and to solid walls using STS fixing products.





External render carrier board



External foundation board



Internal render wall board



A1 fire proof board: ideal stove backer



Strong: can support bathroom fixings



Water resistant board: ideal in wet areas

Installation onto Studwork



1 Apply Mega Strength adhesive



2 Screw boards once in position



3 Mega Strength along the edges



4 Prime finished surface

Installation onto Solid Surfaces



1 Dot & dab tile adhesive



2 Mechanical fixings required



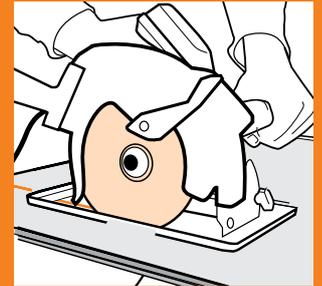
3 Mega Strength along the edges



4 Lay boards in brick bond pattern



Cutting Boards



Use circular saw fixed with vacuum extractor and an STS PCD saw blade. This method will cut boards easily and mitigate dust.



Cut it // Stick it // Screw it // Prime it



12mm Board Q&A

When wet, do STS 12mm Construction Boards lose any strength, plus, when they dry, do they recover all their original strength?

STS 12mm Construction Boards will lose some strength when wet. Multiple tests have been carried out which included a pull through test at control conditions when the boards were dry and a pull through test after the boards were immersed in 23°C water for 7 days. There was a slight loss in strength when the boards were tested after immersion, however, when they reverted to their dry state, almost all strength had been retained.

What is the maximum length of time an STS 12mm Construction Board can be fitted and then exposed to weather prior to rendering?

We recommend rendering the fitted STS 12mm Construction Board as soon as conditions allow, although these boards can be left fully exposed for up to 3 months prior to rendering. Pay particular attention to preparation of boards to receive render base coat when boards have been exposed for a prolonged period. You must ensure boards have fully dried and that the surface is cleaned of any debris, dust and magnesium salts that may have been attracted to the surface.

How does STS advise on render preparation?

Specific guidance for preparation of boards to receive render varies slightly from each render supplier, so STS recommends following your preferred render supplier's guidance to ensure validity of warranty.

What side of STS 12mm Construction Board do I render on to?

Use either side. Both accept render easily.

Can I put sand and cement onto STS 12mm Construction Boards?

Sand and cement renders have been used successfully numerous times with STS 12mm Construction Board, but due to the lack of dedicated testing and quality assurance STS cannot recommend this application for use. The decision of the compatibility is the sole responsibility of the render applicator.

Do STS 12mm Construction Boards need to be hard fixed or can they be dot and dabbed?

STS always recommends mechanical fixings in addition to dot and dab onto solid surfaces.

Can STS 12mm Construction Boards be used in place of plasterboard?

Yes, STS 12mm Construction Boards have far superior properties in comparison with plasterboard such as fire resistance, impact strength, breathability performance and durability to damp.

Can STS 12mm Construction Boards support wall fittings?

Yes, STS 12mm Construction Boards will support fittings such as toilet roll holders, shower curtain rails, vanity mirrors, shelves and pictures when appropriate fixings are used. Larger, heavier fittings such as grab rails and cabinets must always be fitted into supporting stud work.

Can STS 12mm Construction Boards be used behind a wood burning stove?

Yes, STS 12mm Construction Boards are A1 fire rated and an ideal board to use behind wood burning stoves.

Can STS 12mm Construction Boards be painted and plastered?

Yes. Before applying paint or plaster, STS 12mm Construction Boards require priming on face and edges with SBR Primer.

Do STS 12mm Construction Boards require priming before applying tile adhesive?

Priming STS 12mm Construction Boards is always best practice before applying tile adhesive. Tests have proved the bond between tile adhesive and 12mm Construction Boards was significantly strengthened when primer was applied.

What mechanical fixings do I use?

Use STS torx screws for timber or metal stud work. These should be readily available from all local merchants. Fix at 300mm centres.

How should STS 12mm Construction Boards be stored?

STS boards are delivered on clearly labelled pallets, wrapped and packaged to prevent weathering and edge damage. They should be stored flat on a pallet, in dry conditions indoors. Boards should not be left upright for long periods of time and whilst stored, moisture should not be allowed to drip on to or infiltrate between stored sheets to prevent surface staining. Larger sized boards should be always lifted by 2 people and carried on their edge, so to avoid unnecessary damage.

12mm Technical Data

2400 x 1200mm and 1200mm x 800mm

Dimensions	Measurement		Test Standard
Length	2400mm	1200mm	
Width	1200mm	800mm	
Thickness	12mm (tolerance 6.66%)		BS EN 12467:2016 + A1:2016

Performance		
Density	1.28g/cm ³	BS EN 12467:2016 + A1:2016
Linear variation (change in moisture)	0.16%	
Bending Strength (dry)	12.46 MPa @ max force 1563 N	BS EN 12467:2016 + A1:2016
Bending Strength (saturated in warm water)	12.91 MPa @ max force 1563 N	BS EN 12467:2016 + A1:2016
Water impermeability (unprimed)	No water formation after 24 hours Damp patch covers tested area	BS EN 12467:2016 + A1:2016
Water impermeability (primed)	No water formation after 24 hours No damp patch in tested area after 192 hours	
Reaction to fire	A1/A1fl	EN ISO 1182 & EN ISO 1716

Testing	
Pull through Testing	Mean Result: 1650 (Newtons)
Pull Out Testing	Mean Result: 840 (Newtons)

Compatible renders for STS 12mm Construction Board



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