

THERMOWOOD



**MILL
WORKS**

TIMBER SPECIALISTS

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Millworks LTD | Parsonage Barns | Bottisham | Cambridge | CB25 9BA



FEATURES

- Using a unique heat treatment modification process, reaching up to 212c, properties in the timber change permanently, making it perfect for external claddings.
- Thermowood® is dark brown in colour throughout, giving it an attractive and consistent look. If left untreated the colour will turn a silver-grey.
- The heat treatment, modifies and enhances the properties in the timber making it resistance to fungi and giving a service life of over 30 years.
- Millworks® Thermowood® is less likely to warp, twist or cup due to the inability to absorb moisture, making it perfect for factory coatings.

SUSTAINABILITY

Millworks® source Thermowood® from carefully selected Redwood, by leading Finnish sawmills with a full chain of custody. Natural thermal modification enhances the wood's attributes and leaves it free from chemical preservatives and solvents.



"Wood products have significantly lower greenhouse gas emissions than fossil material alternatives over the complete life cycle of the product, yielding an average saving of 1.5 to 3.5 tons of CO2 emissions per 1 ton of wood products used." [Source](#)



CASE STUDY



EATON SOCON PRE-SCHOOL

Grade: Millworks® A/B
Width: 20x143mm
Profile: MW-2

Millworks® were specified by Devlin Architects to deliver a mix of factory coated, fire protected and natural Thermowood® (Redwood) cladding.

An important factor on this project was that children could engage with the building, inside and out for generations to come.

Thermowood® was chosen for its stability and enhanced ability to take a consistent coating. Factory coatings are compatible with FRX fire retardant treatment, giving a Euroclass B fire certificate.

"It has been widely received in the architecture community, and was awarded multiple RIBA architecture awards."

Simon Devlin, Director - Devlin Architects Ltd.



Check out our latest Thermowood projects here:

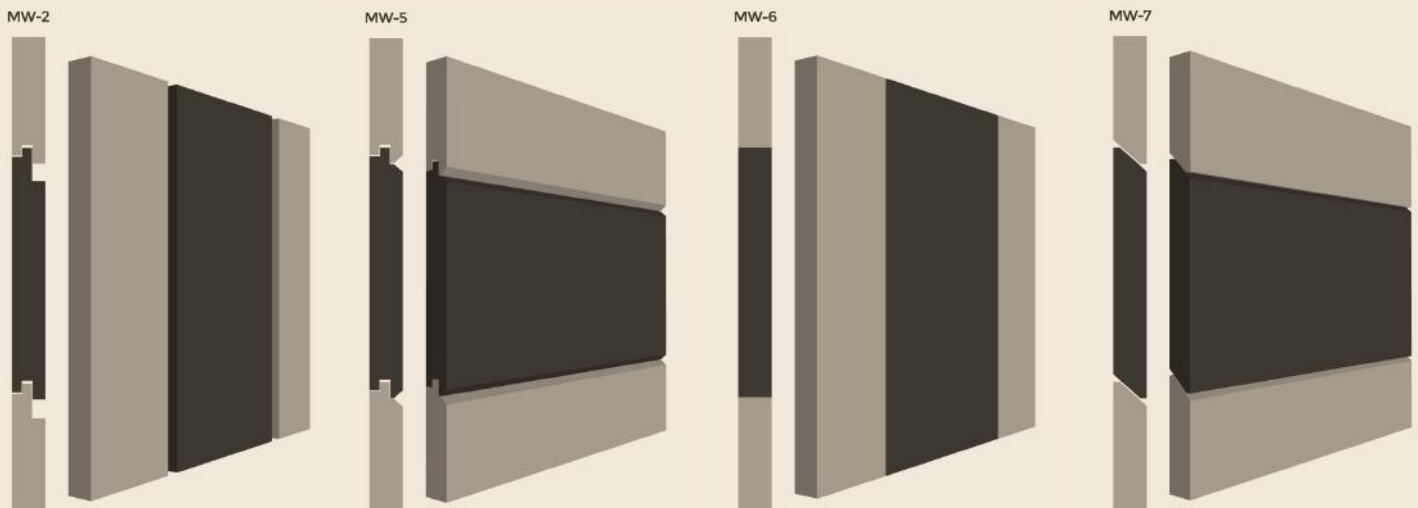
FIXINGS - MILLFIX™

Specifically manufactured stainless-steel fixings, available in secret-fix, face-fix or clip systems, are designed for Millworks® timber cladding and decking profiles. Our fixings ensure long service life for best performance of the timber and coatings in any location. Full details available on specification data sheet.



PROFILES

Designed and manufactured in-house using precision CAD technology. Millworks® profiles feature 3mm radius to corners, countersunk screw grooves, 9 degree slopes to all surfaces and stress-relief grooves. This enables maximum service life to coatings, increased performance and precise installation using Millfix™.



*other standard profiles available from stock. Custom profiles can be made in-house to spec.

SURFACE FINISHES

In addition to our standard planed finish, surface texture can be added to create accentuated depth to the timber grain. Surface textures are recommended when coatings are applied to improve performance and enable enhanced adhesion and product longevity.



Planed



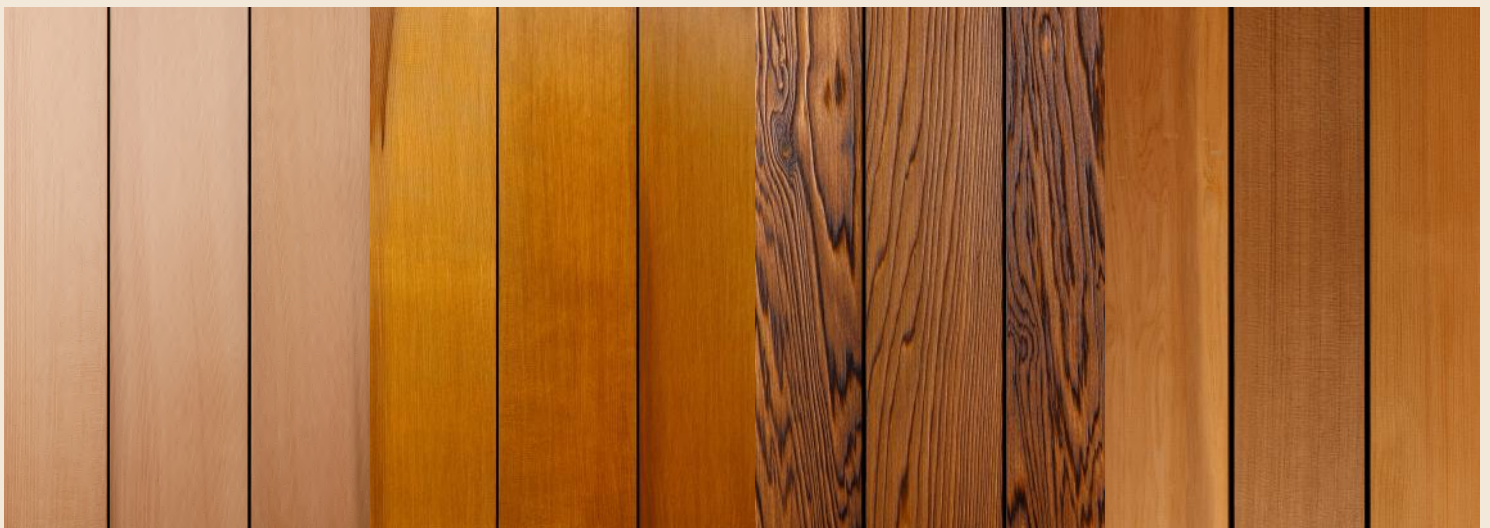
Brushed



MILLCOAT™ - COATINGS

If left untreated, Millworks® Thermowood® will weather unevenly to a silver-grey. Although naturally durable, Thermowood® can be factory coated for added aesthetics and performance. Coating options include translucent and opaque UV colour protection or, when treated with OrganoWood®, a consistent weathering to silver-grey.

- Coatings can be applied under controlled factory conditions with Millworks state of the art finishing line. Producing a consistent finish in a wide range of RAL colours. All boards are coated on all 4 sides for increased durability and stability.
- When specified, TimberFRX Exterior Fire Retardant can be applied to Millworks® Thermowood® cladding, which complies with National Building regulations where Euroclass B or C are required.



SPECIFICATION DATA

PEFC™ certified Thermowood® (Redwood) cladding. Carefully selected from leading Finnish sawmills and suitable for use on a range of external building projects. Please note that the product will weather to a silver-grey if left untreated.



APPROVALS

- PEFC™ certified.
- Durability class 2 according to BS EN 350-2.

REFERENCE

- **Millworks® Thermowood® (Redwood) Cladding**

FEATURES

- Density: 420 kg/m³.
- Recommended fixings: Millfix™, Specifically manufactured stainless-steel fixings, available in secret, face-fix or clip systems, are designed for Millworks® timber cladding and decking profiles.

GRADES

- Millworks® A/B Thermowood® (Thermo D) where D stands for durability, has a darker brown tone. Its durability and stability are improved significantly.

PROFILES

- MW-1, MW-2, MW-5, MW-6, MW-7, MW-10 and custom profiles available when specified..

FINISHES & TEXTURES

- Factory finished: clear UV, OrganoWood® (silver/ grey) or RAL (any colour)
- Planed
- Brushed

TRIMS

- 20 x 43mm, 20 x 93mm, 20 x 143mm, 44 x 44mm, 44 x 93mm.
- Lengths up to 5.4m.

FIRE - TREATMENT

- Fire retardant treatment (FRX Exterior). Complies with the National Building Regulations where Euroclass B or C fire performance is required.
- Coating to RAL (any colour) maintains FRX fire certification.

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