Composite Cladding

- Eco-friendly
- Easy to Install
- Minimal Maintenance
- Fixings and Trims Available
- Wood Plastic Composite (WPC)

For commercial and industrial cladding projects
Dura Cladding
...designed for the future
Dura Cladding is produced from Wood Plastic Composite (WPC) which is manufactured by an extrusion process using a mix of recycled plastics and hardwood with various bespoke additives. WPC is an immensely versatile material which combines the traditional appearance and workability of timber with the durability and resilience of an engineered composite. Dura Cladding is an increasingly popular choice for finishing the outside of commercial and domestic buildings. Dura Cladding is available in solid colours or timber effect and is an attractive and economical way to finish the exterior of both new and refurbished offices and commercial buildings.

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For the new Severn Trent offices in Shrewsbury, Glenn Howells specified Dura Composites charcoal Dura Cladding because of its sustainability credentials. Dura Cladding is made from 87% recycled materials, comes with a warranty and requires minimal maintenance which makes the life cycle costs much lower than natural wood. Dura Cladding is also colour stable, giving the customer complete peace of mind that the cladding will retain its colour throughout its design life expectancy.

Composite Cladding

Eco-friendly
Ideal for modern buildings

Project: Severn Trent Offices, Shelton, Shrewsbury
Client: Severn Trent
Architect: Glenn Howells
Main Contractor: BAM Construction
Sub Contractor: Solaglass
Product: Dura Cladding Type
Flush Charcoal

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UK Prime Minister David Cameron discussing eco-friendly cladding products with Dura Composites MD Stuart Burns.
The 87% recycled timber composite cladding is the main feature of the two-storey office development, which Lanswood Ltd. has designed to be as sustainable and environmentally-sound as possible. Dura Cladding will also feature on the offices, restaurants and retail units planned for phase two of the development.

Dura Cladding looks and feels like natural wood and its unique formula provides lightweight yet durable cladding that will not splinter, warp or rot throughout its 50 years design life expectancy.
Dura Cladding is made from 87% recycled materials and is also available as 100% FSC certified.

Dura Cladding is UV Weather Tested to ISO 4892-2 Xenon Arc (5000hrs) to ensure it will not splinter, warp or rot and doesn’t require any staining or painting.

Watch our You Tube video to see how quick and easy Dura Cladding is to install.

Dura Cladding has a long life expectancy and requires minimal maintenance resulting in a lower life cycle cost when compared with traditional hard and softwood.

Benefits

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Previous Installations
Composite Cladding
Transforms the exterior of any commercial or residential building

Project: Edgbaston Tennis Club
Contractor: Morgan Sindall
Sub Contractor: Hathaway Roofing Ltd.
Architect: Glenn Howells
Product: Dura Cladding Type Flush

For the new indoor centre at Edgbaston, Hathaway Roofing Ltd needed to produce a natural wood look in a light grey colour and so Dura Cladding was the obvious choice. Dura Composites worked with the client and architect to achieve a color and look to match the specifications. Thanks to the stability of Dura Cladding the client has peace of mind that following the initial weathering period the cladding will retain its colour throughout its design life.
Louvre Cladding

An attractive & economical way to finish your building

Louvre Cladding benefits

- High performance composite construction
- High strength to weight ratio
- Permanent colour
- 316 stainless steel fixings available
- Low maintenance
- Easy to erect / install
- Corrosion and weather resistant
- Fire resistant grades available
- Simple cutting and installation on site
- Excellent value ‘life cycle cost’
- Colour Stable

Project: Social Housing, Lead Bitter Old Town Dock, Newport

Architect: Powell Dobsons Architects

Product: Louvre Cladding Cedar

Louvre Cladding was specified by architects as a cost-efficient way of creating several feature walls on new social housing at Lead Bitter Old Town Dock. Louvre Cladding will transform the outside of any building and can be quickly and easily installed. It is also a great way to create a screen to hide any services on the exterior of the building.
Louvre Cladding is used globally and its UV stability means that it will survive even the harshest climates.

Dura Cladding benefits from a natural appearance. It also has the benefits of long life, light weight, low maintenance, non rotting, corrosion and electrical resistance, low installation costs, long service life and the colour stability is far superior to traditional materials.

Dura Cladding products compete very favourably on a life cycle cost basis versus traditional materials due to their limited maintenance needs and long lifespan.

Dura Cladding is designed and has been tested to withstand extreme weather conditions and temperature ranges.

Various standard cladding profiles are available, and custom profiles incorporating alternative fixing systems can be produced to specification.
Cladding Specifications
Wood Plastic Composite (WPC) Cladding for new or refurbishment projects

Type 200/21 Flush (tongue & groove)

Type 250/21 Flush (tongue & groove)

Type 300/21 Flush (tongue & groove)

Louvre Cladding can be supplied in standard rectangular profiles to suit various cladding projects. Specific profiles can be produced to order.

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**Cladding Dimensions & Weights**

<table>
<thead>
<tr>
<th>Cladding Profile</th>
<th>Plank Thickness</th>
<th>Plank Length</th>
<th>Actual Plank Face Width</th>
<th>Maximum Fixing Span</th>
<th>Weight l/m</th>
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</thead>
<tbody>
<tr>
<td>Type 200/21 Flush</td>
<td>21mm</td>
<td>3600mm</td>
<td>200mm</td>
<td>600mm</td>
<td>3.14kg</td>
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<tr>
<td>Type 250/21 Flush</td>
<td>21mm</td>
<td>3600mm</td>
<td>250mm</td>
<td>600mm</td>
<td>3.69kg</td>
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<tr>
<td>Type 300/21 Flush</td>
<td>21mm</td>
<td>3600mm</td>
<td>300mm</td>
<td>600mm</td>
<td>4.7kg</td>
</tr>
<tr>
<td>Starter Trim</td>
<td>21mm</td>
<td>3600mm</td>
<td>60mm</td>
<td>600mm</td>
<td>1.21kg</td>
</tr>
<tr>
<td>Top Window Trim</td>
<td>38mm</td>
<td>3600mm</td>
<td>154mm</td>
<td>600mm</td>
<td>2.7kg</td>
</tr>
<tr>
<td>External/Internal/Expansion Trim</td>
<td>38mm</td>
<td>3600mm</td>
<td>138mm</td>
<td>600mm</td>
<td>4.11kg</td>
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<tr>
<td>Fascia Trim (Type 200, 250)</td>
<td>9mm</td>
<td>3660mm</td>
<td>230mm</td>
<td>-</td>
<td>6.2kg</td>
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<tr>
<td>Fascia Trim (Type 250, 300)</td>
<td>10mm</td>
<td>3660mm</td>
<td>140mm</td>
<td>-</td>
<td>1.94kg</td>
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**Cladding Material Specifications**

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Unit</th>
<th>Test Reference</th>
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<tbody>
<tr>
<td>Tensile Strength</td>
<td>15mpa</td>
<td>BS 6599</td>
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<tr>
<td>Impact Strength</td>
<td>8kJ</td>
<td>ASTM D1037 - 93</td>
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<tr>
<td>Flexural Strength</td>
<td>3.1Gpa</td>
<td>ASTM D1037 - 93</td>
</tr>
<tr>
<td>Flexural Strength **</td>
<td>3.1Gpa</td>
<td>ASTM D1037 - 93</td>
</tr>
<tr>
<td>UV Aging Test</td>
<td>Pass</td>
<td>ISO 4892 - 2</td>
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<tr>
<td>Density</td>
<td>1.4g/cm³</td>
<td>Ceram, Stoke on Trent</td>
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<tr>
<td>24 Hour Water Absorption</td>
<td>1.07%</td>
<td>ASTM D564</td>
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<tr>
<td>Flammability Resistance</td>
<td>Euro Class Df-S1</td>
<td>BS EN 13501-1 [TBC]</td>
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<tr>
<td>Fire Resistance</td>
<td>Pass</td>
<td>476 Part 7 Class 3</td>
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<tr>
<td>Expansion Rate</td>
<td>3.882E-6°C/K-1</td>
<td>Ceram, Stoke on Trent</td>
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<tr>
<td>Weatherability</td>
<td>No Damage at 100 cycles</td>
<td>MOAT 22</td>
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<tr>
<td>Thermal Conductivity</td>
<td>0.154 W/m.K.</td>
<td>Indicative result</td>
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<tr>
<td>Maximum Thermal Expansion Rate **</td>
<td>0.059mm/min/°C-change</td>
<td>ESG Report M7097R1 Rev1</td>
</tr>
<tr>
<td>Maximum Thermal Contraction Rate **</td>
<td>0.0026mm/min/°C-change</td>
<td>ESG Report M7097R1 Rev1</td>
</tr>
<tr>
<td>Structural Wind Load-Positive</td>
<td>&lt;504.05kg</td>
<td>ESG Report M7097R1 Rev1</td>
</tr>
<tr>
<td>Structural Wind Load-Negative</td>
<td>&lt;330.6kg</td>
<td>ESG Report M7097R1 Rev1</td>
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<tr>
<td>Sustainability</td>
<td>FSC certification</td>
<td>FSC 100% Certification</td>
</tr>
<tr>
<td>Recycled content</td>
<td>Minimum 83% recycled</td>
<td>Ceram, Carbon Footprint report</td>
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</tbody>
</table>

*From 60 to 80°C **From 70 to 30°C ***Dura Cladding exceeded the test rig capacity ****After UV aging (1000 hours & rain)

**Cladding Trims and Accessories**

- Starter Trim
- Top Window Trim
- End Caps and Plugs
- External/Internal/Expansion Trim and Trim Insert
- Fascia Trim plain or grooved surfaces

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Dura Cladding can be used to cover exterior walls that have been insulated with foam

Finance up to £10,000

The Department of Energy and Climate Change (DECC) aims to revolutionise the energy efficiency of British properties. It plans to help home owners make energy-saving home improvements for no upfront cost. From 2013, home owners may be able to get finance of up to £10,000 to insulate their homes. Dura Cladding has also been designed to be used in conjunction with external wall insulation for houses with a solid non insulated wall structure.

Recent press also suggests that home owners who insulate their homes, could be offered a reduction in stamp duty or council tax.

As the UK benefits from the costs savings associated with externally insulated walls, Dura Cladding can provide a cost-effective and easy-to-install solution for transforming the appearance of any building at the same time as achieving energy cost savings.

Installation system

Composite Cladding is generally installed onto 50mm x 38mm timber battens screwed to the wall and spaced at 600mm centres. When used to cover exterior walls, the battens need to be increased in depth to 100mm. This allows insulation of up to 75mm thickness such as Celotex FR5000 PIR or similar foam to be fixed to the wall between the battens, allowing the required 25mm air gap. Dura Cladding can then be fixed with screws in the usual way to create the final exterior appearance.

This insulating system benefits houses, barns, outbuildings, offices, factories and commercial buildings, providing vastly improved insulation, as well as transforming the appearance.

Colour Options

Colours shown are representative only, actual colours may vary slightly. Dura Cladding is manufactured using a proportion of natural wood, in high temperatures there may be a slight fade over a period of years. Colour samples are available on request.

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Due to our policy of continual improvement we reserve the right to change specifications at all times without prior notice.