

Composite Timber

Dura Wood



Photograph of Dura Wood Composite Timber Benches, courtesy of Hartecast UK

Composite Timber Profiles for use in Benches and other Street Furniture

- Natural timber appearance
- Never needs staining, oiling or painting
- Easily sanded to remove graffiti
- Does not rot, warp or splinter
- Suited to all weather conditions
- Environmentally friendly. Made from recycled materials



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Industrial Rail Marine Decking Cladding

Composite Timber Profiles

Dura Wood

Composite Timber Dura Wood profiles are hard wearing and low maintenance and can be used to create seating benches and other street furniture for Local Authority Schemes, Promenades, Public Parks, Transport Environments and other public spaces. Dura Wood profiles are manufactured from a unique combination of recycled hardwood and plastic and our highly developed unique composition combines the traditional appearance of timber with the durability of an engineered composite. When used to make street furniture, they result in a UV stable and hardwearing product that offers the ultimate in low maintenance peace of mind.

Applications

- Local Authorities
- Promenades
- Public Parks
- Transport Hubs
- Hotel Gardens
- Theme Parks
- Private Residences

Features

- No painting or treating
- UV resistant
- Colour stable
- Minimal maintenance
- Does not splinter
- Long life span
- Eco-friendly

Benefits

- Hassle free
- Designed for all climates
- Easily sanded to remove graffiti
- Requires only basic cleaning
- Touch Safe
- Helps conserve the earth's resources

Components

DW01004	DW01001	DW01002	DW01003	DW01005
Dura Wood Solid 50x50x2000mm	Dura Wood Solid 70x40x2000mm	Dura Wood Solid 90x40x2000mm	Dura Wood Solid 140x40x2000mm	Dura Wood Solid 180x60x2000mm
				



Material Specifications

	RESULT	STANDARD
STRUCTURAL PROPERTIES		
Compression Strength Parallel to Length Perpendicular to Length	41.5 MPa 58.4 MPa	ASTM D7031-15 Section 5.7 ASTM D7031-15 Section 5.8
Tensile Strength Parallel to Length Perpendicular to Length	23.2 MPa 14.1 MPa	ASTM D638-14 ASTM D638-14
Bending Bending Strength (MOR) Bending Stiffness (MOE)	39.3 MPa 4168 MPa	ASTM D7031-11 Section 5.5 ASTM D4761-13 Section 7
Flexural Properties Flexural Strength (MOR) Flexural Stiffness (MOE)	33.7 MPa 4637 MPa	ASTM D7032-17 Section 4.4 ASTM D6109-13
Freeze Thaw Resistance Flexural Strength (MOR) Flexural Stiffness (MOE)	33.7 MPa 3975 MPa	ASTM D7032-17 Section 4.7 ASTM D6109-13
Moisture Effect Flexural Strength (MOR) Flexural Stiffness (MOE)	34.4 MPa 4712 MPa	ASTM D7032-17 Section 4.5.2 ASTM D6109-13
High Temperature Effect Flexural Strength (MOR) Flexural Stiffness (MOE)	27.4 MPa 3289 MPa	ASTM D7032-17 Section 4.5.1 ASTM D6109-13
Low Temperature Effect Flexural Strength (MOR) Flexural Stiffness (MOE)	45.4 MPa 6879 MPa	ASTM D7032-17 Section 4.5.1 ASTM D6109-13
PHYSICAL PROPERTIES		
Swelling (28 day immersion) Mean Swelling (in thickness) Mean Swelling (in width) Mean Swelling (in length) Max Swelling (in thickness) Max Swelling (in width) Max Swelling (in length)	0.50% 0.10% 0.10% 0.70% 0.10% 0.10%	EN15534-4:2014 Section 4.5.5 EN15534-4:2014 Section 4.5.5 EN15534-4:2014 Section 4.5.5 EN15534-4:2014 Section 4.5.5 EN15534-4:2014 Section 4.5.5 EN15534-4:2014 Section 4.5.5
Water Absorption (24 Hours) Water Absorption (28 Days) - Mean Water Absorption (28 Days) - Max	0.50% 0.60%	EN15534-4:2014 Section 8.3.1 EN15534-4:2014 Section 8.3.1
Resistance to Indentation Brinell Hardness Rate of elastic recovery	104 MPa 74.0%	EN 15534-4:2015 Section 4.5.7 EN 15534-4:2015 Section 7.5
Impact Resistance Charpy impact strength	4.4 kJ/m ²	EN 15534-1:2014 Section 7.1.1
Mechanical Fastener Holding	6519 N	ASTM D7031-11 Section 5.11
Pendulum Test Longitudinal Direction Horizontal Direction	Mean = 53, Min = 50 Mean = 57, Min = 54	BS 7976-2:2002+A1:2013 BS 7976-2:2002+A1:2013
Density	1.317 g/cm ³	ASTM D792-13 Method A
Resistance to Artificial Weathering ΔL* = -1.43 Δa* = 0.06 Δb* = -0.13 ΔE* = 1.43 Grey Scale = 4"	"Exposure Time = 2000 h ASTM G154-16 Cycle 1	ASTM D7032-17 Section 4.6
THERMAL PROPERTIES		
Thermal Expansion	44.8x10 ⁻⁶ K ⁻¹	EN 15534-1:2014 Section 9.2

MOR = Moment of Resistance MOE = Modulus of Elasticity

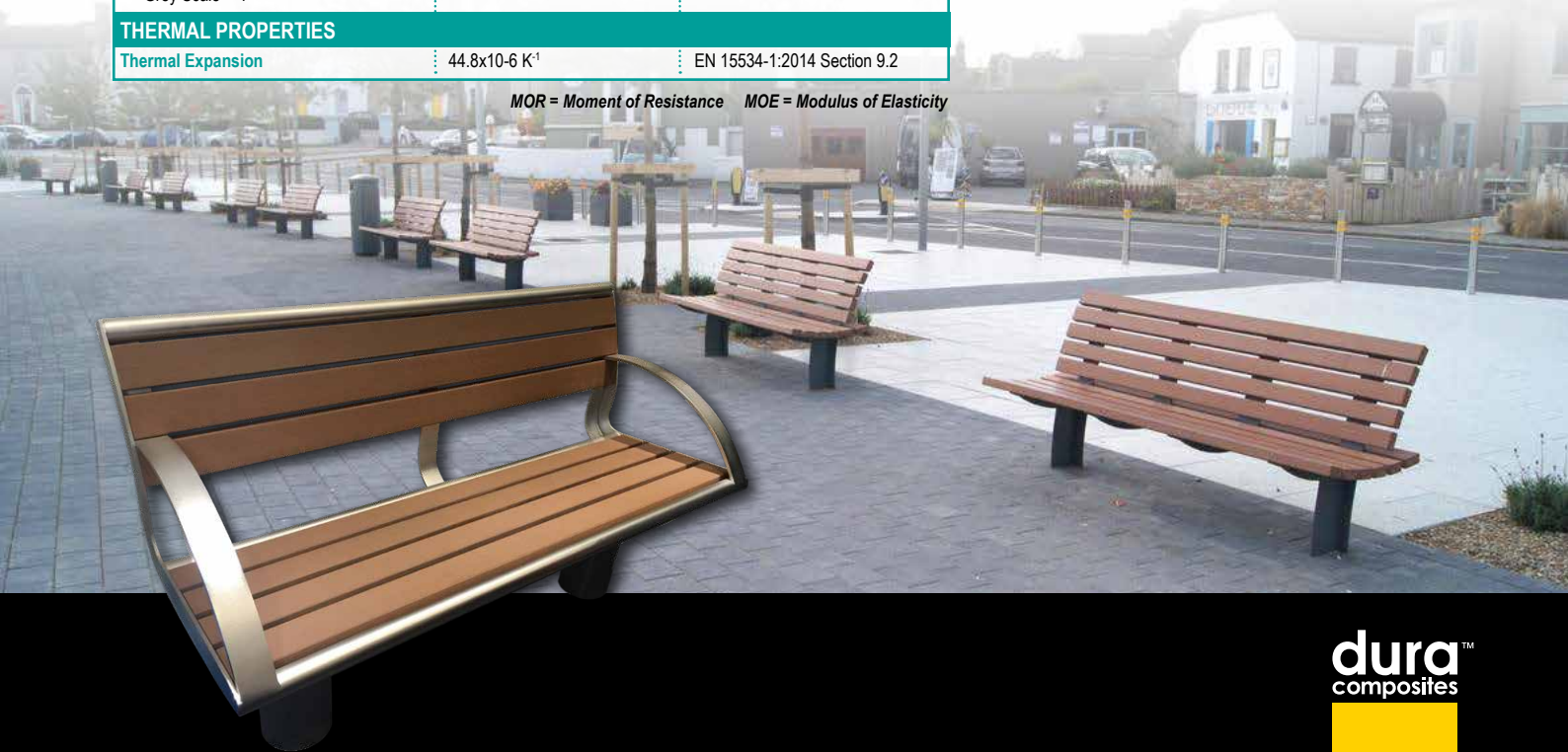


Made from an innovative blend of up to 87% recycled hardwood and plastics, Dura Wood Composite Timber profiles help to conserve the earth's resources whilst reducing the amount of waste sent to landfill.

They can be used to create a range of contemporary or traditional designs which add warmth and character to public areas and are a low-maintenance, cost effective and eco-friendly alternative to hardwood timber.

As well as benches, Dura Wood can be used to create planters, bollards and litter bins that offer both function and style.

Below: Dura Wood Composite Timber Benches at Greystones Marina. Photograph courtesy of Hartecast UK



Find out more

For more information about our full range of composite timber landscaping products, please visit www.duracomposites.com/decking/

Find your Dura Wood Stockist:



Other applications for Dura Wood:

Litter Bins
Planters
Bollards
Screening
Sculptures

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