

MY BOARD

SPECIFICATIONS

DURABLE BOARDS FROM 100% MIXED WASTE PLASTIC

If you have not used this product before, this information sheet should guide you through the product range and answer most of your queries on how to use MYboard™.

HOW IS MYBOARD™ MADE?

Our standard boards are made from 100% mixed waste plastic. This is usually classed as 'unrecyclable' plastic – bottle tops, crisp packets, cosmetic packaging, food packaging, garden toys etc. – and means that there could be particles of wood and paper mixed in. The material is cleaned and cooked at over 200 °C during processing.

WHAT TO EXPECT:

It may sound obvious, but plastic is not wood and does not react like wood, so don't expect a pallet of MYboard™ to arrive looking and reacting just like wood. Wood is stiffer and planed to very tight tolerances. MYboard™ is a moulded plastic product, and is produced larger than the end size – see the Board Grades page for further details.

MYboard™ has a smooth surface of recycled plastic, encapsulating a 100% waste plastic core. A pallet of MYboard™ will often have a dip in the middle, which is a result of the cooling process. If you turn the boards over on a flat surface, this will come out.

MYboard™ edges will be higher than the centre. The voids that make up the cellular core will be irregular, some larger than others; this is what makes the boards light and stiff.

The colour will be speckled and – depending on board style – the core may show through.

PLASTIC OR WOOD BOARD?

When choosing MYboard™ over plywood, consider the application and total final cost. Outdoors, for example as a hoarding, MYboard™ does not need painting, does not need aluminium composite, will outlast plywood, is jet washable and can be reused on the next site. It does expand/contract more than plywood, and so a slightly different fixing profile should be used, like the top hat system. The key in transitioning from wood to plastic boards is to adapt the system used currently for wood slightly, so that it is ideal for plastic and sustainable re-use.

Single use plywood from forests or re-useable MYboard™ from 100% waste, your choice...



CUTTABLE



LIGHTWEIGHT



STIFF



WATERPROOF



WELDABLE



FORMABLE

MYBOARD™ HI (HIGH IMPACT)

The HI board is the most utilitarian of our boards. It has a smooth PE/PP surface encapsulating the mixed plastic waste core. It's really tough, easy to clean, with good chemical resistance. It is hard for paint/graffiti to stick to it, unless a key is made by sanding. It is formable, UV stable and can be plastic welded.

- ✓ **FURNITURE**
Indoor & outdoor
- ✓ **FLOORING**
- ✓ **JOINERY & CONSTRUCTION**
- ✓ **HOARDING**
- ✓ **GARDENS**
Raised beds, compost bins, lawn edging, furniture etc.
- ✓ **SHEDS, SHELTERS & LOCKERS**
- ✓ **PLINTHS & ART INSTALLATIONS**
- ✓ **WET AREAS**
Showers, toilet cubicles etc.
- ✓ **CAMPSITES**
Washing areas, recycling areas, play areas etc.
- ✓ **WAREHOUSING, SHELVING & STORAGE**

MYBOARD™ SF (SHOP FITTING)

The SF board was developed to be similar to MDF for the shop fitting and furniture industry. It is very stiff, making it more brittle than the HI board, can be painted and laminated with much tighter tolerances. With the advent of self-adhesive 'car wrap' material any surface look is achievable. The wraps such as Di-Noc and Coverstyl, do not require a laminating press, and can be applied to one side only. Some of these wraps have a fire rating too.

- ✓ **COUNTERS & CARCASSES**
- ✓ **CUBICLES & CHANGING ROOMS**
- ✓ **OFFICE TABLES & DESKS**
- ✓ **PILLAR CLADDING**
- ✓ **SIGNAGE**
- ✓ **SHELVING**
- ✓ **SHOP WINDOW DISPLAYS**

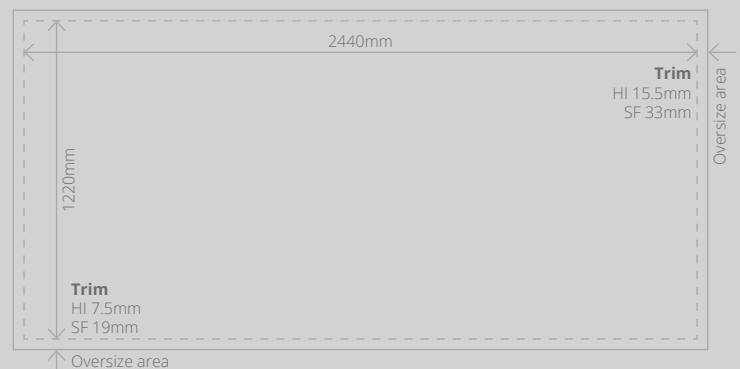
STANDARD COLOURS



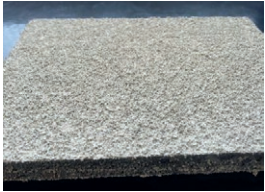
SPECIALS EXAMPLES



DIMENSIONS (HI & SF)	2440x1220x19mm (cut to size) +/- 5mm
OVERSIZE	HI – 2471x1235mm SF – 2506x1258mm
WEIGHT	approx. 32kg
DENSITY	approx. 589 kg/m ³ (see appendix for full details)
CORE	The core is a non-perfect recycled waste material, which is not compounded or prepared. Voids in the core will occur (<4cm Ø), which helps make the panel light & stiff.
STIFFNESS	0.35 GPa at 23°C (see appendix for full details)
COLOUR	Stock: black & green. Specials: wide range available to order – get in touch. We are often able to produce other colours, or MYboard made exclusively from your own waste plastics; please get in touch to discuss your requirements. Colours are dependent on plastic waste available at time of manufacture and therefore we cannot guarantee specific colours, tints, combinations, patterns or matches to existing MYboard products.
COEFFICIENT OF EXPANSION	3-4 mm/2.4m/10°C
WEATHER RESISTANCE	Weatherproof and will not rot; ideal for outdoor use. Impact strength increases, the wetter it becomes.



We've answered the most common queries for general use of MYboard™ here. If there is anything specific not covered that you would like more information on, please get in touch and our team will be happy to advise.

CLEANING	MYboard™ can be jet washed at low pressure, with minimum 100mm nozzle distance from board.	FORMING	MYboard™ HI can be heat formed. 
COATING	For the rendered look, non-slip and UV protection, we recommend CorkSol coating (www.corksolutuk.com). Wrap with Di-Noc or Coverstyl .   	GLUEING	Wood glues don't work. We suggest Novaseal Signfix Ultrabond adhesive or alternatively 2-part polymer glues.
CUTTING	You can cut MYboard™ with a hand saw, jigsaw, router, bench saw and skill saw. We suggest running saws at slower speeds to avoid melt and with blades recommended for plastic cutting.	NAILING	As MYboard™ expands and contracts, we don't recommend nails as the only fixing method.
DRILLING	MYboard™ drills well with wood drill-bits and can be countersunk.	PAINTING & PRINTING	MYboard™ comes in black or green speckled skin colour. We can colour the skin during manufacturing at an extra cost for large volume. As standard, HI has an anti-graffiti finish, so paint has difficulty finding adhesion, but vinyl graphics apply well. It is also possible to UV print the boards, a great alternative to aluminium composite materials on site hoardings. SF board is paintable and printable. 
EDGE BANDING	Edge banding can be applied using standard glue fixing, or mechanically by routing into the core and using a T edge. Use adhesive wraps to wrap over the edge. The current trend is to show off the recycled core leaving it exposed or painted. The edge can also be plastic welded. 	ROUTING/CNC	MYboard™ can be CNC routed; we suggest using tungsten carbide tooling. We have seen the best results at slow speed with 2 flute bits. CNC messages make MYboard™ stand out. 
FILLERS	Wood filler doesn't work. We suggest epoxy fillers.	SCREWING	Screws fix well in MYboard™ as its elasticity means it stretches and grips the screw's thread. An expansion gap must be allowed when being used outdoors.
FIRE RETARDANCY	Standard boards are not fire rated, however fire-retardant coatings can be applied to the surface. For walls – CorkSol cork coating certified to Euroclass Bs2D0 or CorkSol stone coating certified to Euroclass Bs1D0 . We can supply a board produced with a skin made from certified flame-retardant plastic. This material has been certified in accordance with UL94 at grade V0.	WELDING	MYboard™ HI can be plastic or vibration welded. 

MECHANICAL TEST RESULTS (SWANSEA UNIVERSITY)

PROPERTY	MYBOARD™ GF (FOAM & FIBRE CORE)	MYBOARD™ HI (FOAM CORE)	PLYWOOD (F10/E5)
Density	695 kg/m ³	589 kg/m ³	500-600 kg/m ³
Thermal conductivity	0.259 W/mK	0.193 W/mK	0.13 W/mK
Thermal expansion	128 x 10 ⁻⁶ /°C	151 x 10 ⁻⁶ /°C	5 x 10 ⁻⁶ /°C
Bending stiffness at 23°C	0.39 GPa	0.35 GPa	0.5 GPa
Bending stiffness at 40°C	0.28 GPa	0.2 GPa	
Bending stiffness at 60°C	0.16 GPa	0.11 GPa	
Bending stiffness (2 weeks water immersion)	0.46 GPa	0.41 GPa	0.25-0.35 GPa
Bending stiffness (4 weeks UV exposure)	0.45 GPa	0.37 GPa	0.4 GPa
Bending strength at 23°C	12.9 MPa	13.0 MPa	15 MPa
Bending strength at 40°C	10.8 MPa	9.7 MPa	
Bending strength at 60°C	7.7 MPa	7.7 MPa	
Bending strength (2 weeks water immersion)	14.1 MPa	14.6 MPa	~6-8 MPa
Bending strength (4 weeks UV exposure)	13.3 MPa	14.2 MPa	12-14 MPa
Compressive stiffness at 23°C	0.42 GPa	0.28 GPa	0.4 GPa
Force to buckle panel edgewise	13.5 kN	8.5 kN	12.6 kN
Force to buckle panel lengthways	1.7 kN	1.1 kN	1.6 kN

KINGSPAN TEST RESULTS - MYBOARD™ HI

TEST	RESULTS	
Compressions	Sample size 50x50mm x5 @ av. 3,460kPa	Sample size 100x100mm x5 @ av. 1,540kPa
Lambda	600x600mm tested twice @ 0.111w/mK & 0.109w/mK	
Tensile	50x50mm x5 @ av. 725kPa	
Humidity	300x300mm, spec is <=1.50%, sampled at -0.02% very much like XPS	
Freezer	200x200mm x3 nearside, centre, far side, no collapse, -0.06%, -0.10%, -0.03%	
Fire	250x19x90mm nearside, centre, far side, facer, edge, side, all passed. Tested on 20sec & 60sec	
Water immersion	Nothing to declare	
Density	511.80kg m ⁻³ , after water immersion 536.67kg m ⁻³ but this is possibly due to water trapped in air pockets, due to samples cut	

SUITABILITY FOR USE & WARRANTY

Nothing herein constitutes a warranty express or implied, including any warranty of merchantability or fitness for use, nor is protection from any law or patent to be inferred. The exclusive remedy for all claims is replacement of materials. Contact the sales office for a copy of our Terms and Conditions of Sale. Information provided is for guidance only, the customer is solely responsible for making sure our boards are fit for purpose. All information is based on tests carried out on panels made in the UK. Using mixed waste material in manufacturing will always account for variation.