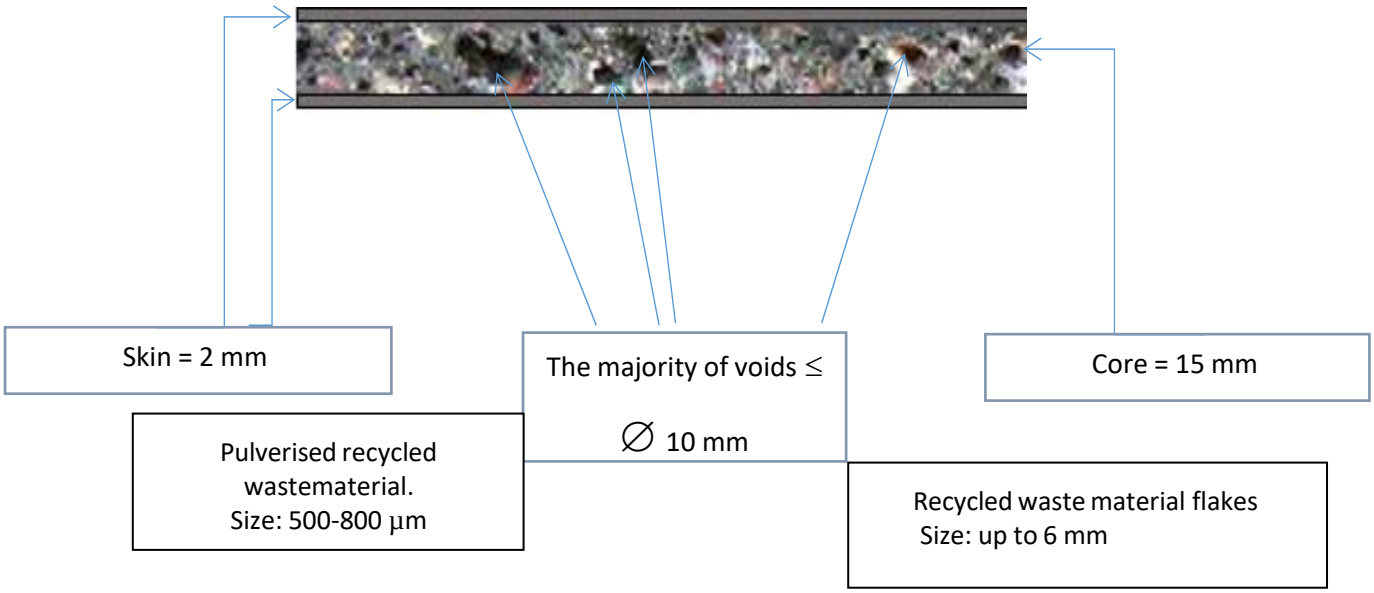
The Recycled Waste Plastic 8X4 Sheet (2.440x1.220m)

GENERAL INFORMATION DOCUMENT

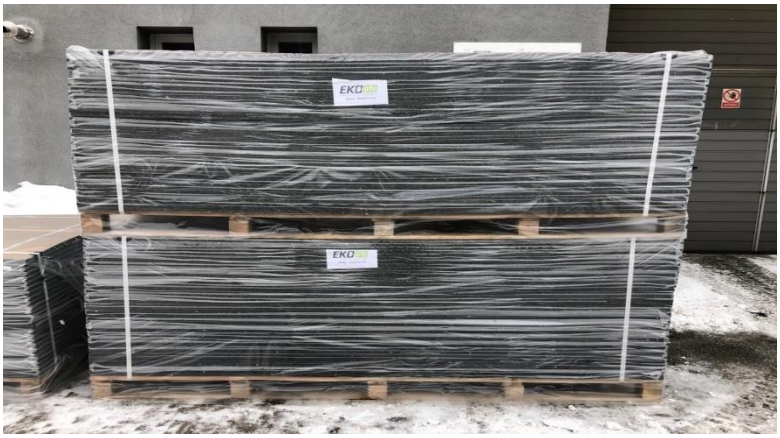


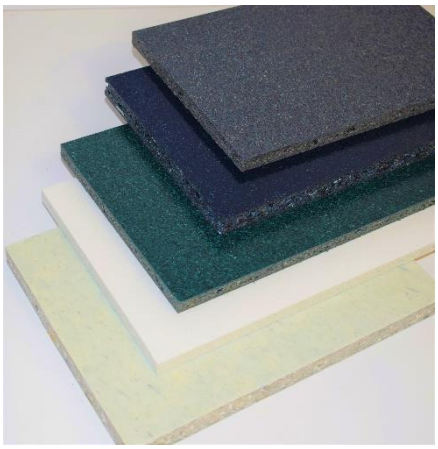
Available in 12.5mm (25kg) & 19mm (33kg) Sheets

* Subject to +/- 10% Fluctuation*

Anti-Slip Surface Option Available

Colour Options Available – Standard Grey, Blue, Green & White Fleck





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Frequently Asked Questions

1. **Will there be colour variations?**
   They are generally grey, however as a recycled sheet there can be significant variations in shades/colours of the skin depending on the waste product used in production.

2. **Is the sheet consistent in its size?**
   Yes - there is a tolerance of 0.2% in its length and width and 10 % tolerance in its thickness.

3. **Does EKOply expand?**
   As with other sheet materials it will expand, and you will need to leave room for expansion between each sheet fixing. We recommend the oversizing of screw holes, **please see note 1.**

4. **How should EKOply be stored?**
   EKOply can be stored indoors or outdoors. It should be stored flat at all times until ready to use.

5. **Do EKOply sheets have UV resistance and/or any thermal properties?**
   Yes. The common PE is not resistant to UV rays, however during the production process the resistance significantly increases. UV chamber testing demonstrates that to date there are no changes in colour or properties over a 3-year period. EKOply standard sheets do have some thermal properties due to the air pockets in the core.

6. **Can standard wood working tools and fixings be used?**
   Yes, EKOply can be handled in a very similar way to plywood for cutting and drilling, **please see note 2** Self-tapping posi-drive screws take and hold well as fixings, for best results resin anchors can be used. We do not recommend nailing or gluing.

7. **What support/struts are required for EKOply?**
   EKOply requires more structural support than plywood. A maximum span of 350-400mm is recommended but varies according to the specific application. The smaller the span, the greater the support and less room for error.

8. **Can scratches be apparent on the surface?**
   Yes, surface scratches can occur as EKOply is not a scratch resistant material.

9. **Can EKOply be painted?**
   We do not recommend painting EKOply as it is offered as a low or no maintenance product. As with many plastic surfaces, paint will not adhere to the surface as the paint is not absorbed. Should you wish to paint EKOply, **please see note 3**.

10. **Can EKOply be used as concrete shuttering and hoarding?**
    Yes, and provides a long-term solution for hoarding and an excellent finish to concrete. However, it requires more structural supports than in standard plywood shuttering.

11. Can EKOply be CNC and laser cut?

EKOply is cut by CNC very successfully. The standard EKOply can also be laser cut successfully but to a minimum depth. Deeper cuts cause melts within the material and do not allow for a neat finish.

12. Can the sheets be covered in vinyl?

Yes, EKOply can accept vinyl and be used outdoors for applications such as signage and hoarding.

13. Can EKOply be used for applications in water?

Yes, as unlike timber EKOply will not rot in water. Water is absorbed into the voids which increases the weight and actually improves the mechanical properties of the sheet.

14. Does EKOply withstand industrial cleaners and solvents?

Yes, as the skin is approximately 70-80% polyethylene which has excellent chemical resistance. Most solvents/detergents are sold in PE containers. If you have a specific product which EKOply will be exposed to, we are happy to supply a sample for your testing as we are unable to advise on specific chemical compositions.

15. Can any voids in the EKOply sheet be filled?

Yes, car body fillers such as Isopan have be successful.

Note 1.

The sheet was warmed from an ambient temperature of 15°C to 57°C. Dimensions have been checked at ambient and higher temperature. Expansion for increase is 20%, 10mm length wise and 5mm width wise.

15°C L (mm) 2444 W (mm) 1223
57°C L (mm) 2459 W (mm) 1230

Note 2.

Tools: HSS and good quality tungsten carbide tips are recommended. For tool parameters see table:

	Saw blade	Milling	Drilling
Tool angle	0-10	0-15	3-5
Clearance angle	10-15	5-15	10-15
Cutting speed	1000-3500 m/min	Up to 1000 m/min	50-100 m/min
Number of teeth	24-80		
Feed/ tooth		up to 0.5	
Feed/ revolution			0.1-0.5
Point angle			60-90
Helix angle		0-40	12-16

Note 3.

As a mainly PE product, the general rule is that paint surface tension must be lower than EKOply surface tension with the surface being cleaned, de-greased and sanded before painting.
We would suggest using Sikkens. Primer Sikkens Redox BL Multiprimer 1 coat
Depending on the desired degree of gloss, Rubbol BL Satura 2 coats or Alphatex IQ 2 coats
Only satin gloss: Wapex 660 (two-component waterborne epoxy paint) 2 coats without primer as it is an independent paint