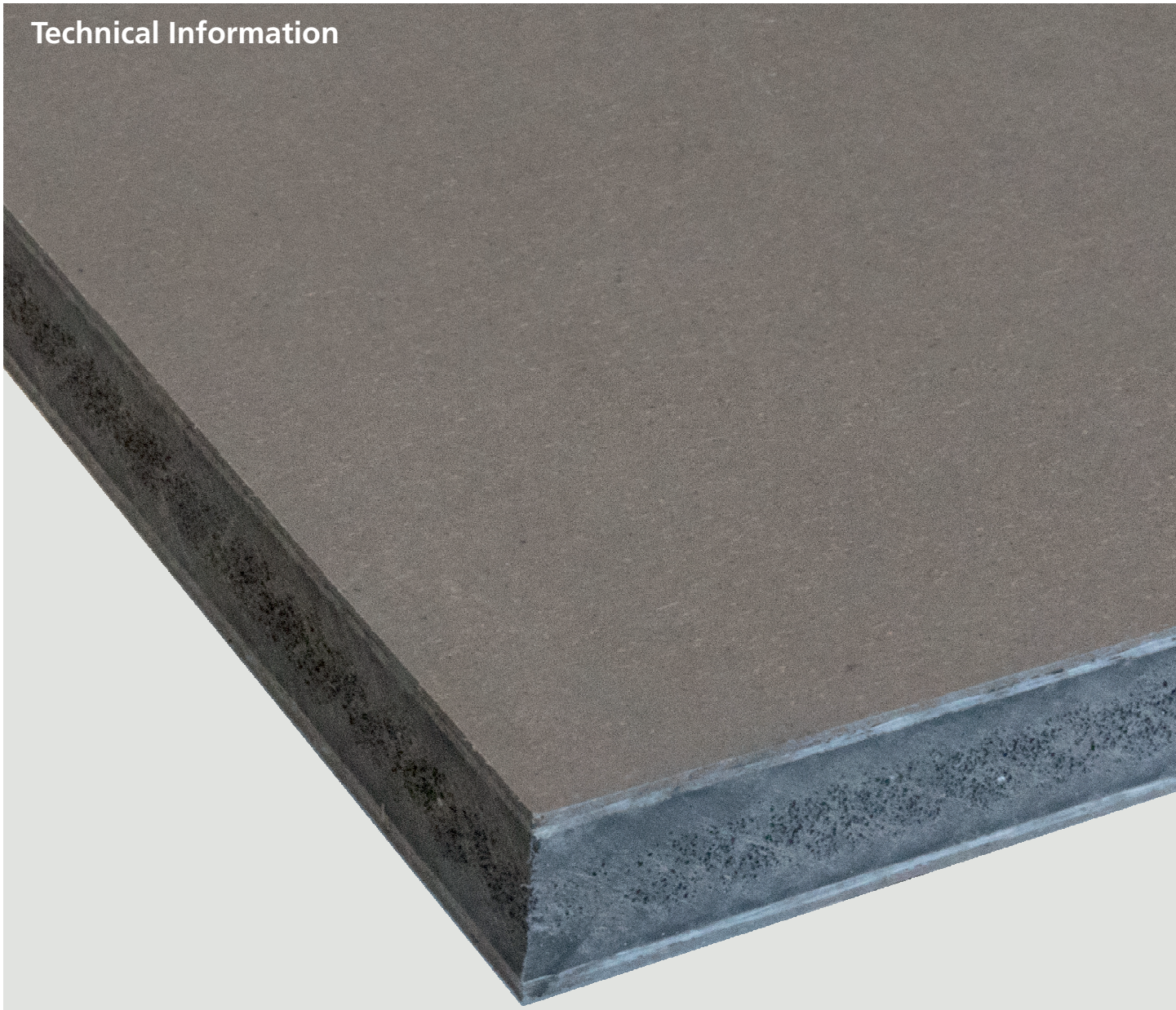
THE FORMWORK

# NOE® ecopan Formwork facing

Dated: 02.2023

Technical Information



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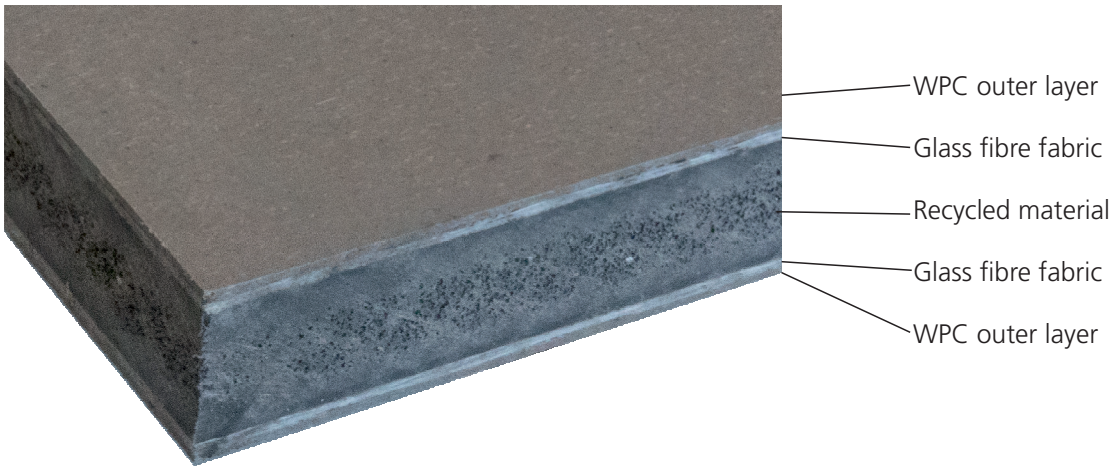
ecopan solid fully synthetic board has an extremely durable plastic composite construction, making it a highly cost-effective choice for formwork fabrication. The product contains a very high proportion of recycled material, adding sustainability to its appeal. A 22 mm thick board saves more than 16 kg CO2 per m2 compared to one with no recycled material. The boards are completely recyclable and can be reprocessed by the manufacturer into new boards. The laminated board is extremely strong, wear resistant and produces excellent fair-faced concrete surfaces.

ecopan fully synthetic board has a five-layer construction:




- **Not adversely affected by moisture absorption**
  Does not absorb moisture, shrink, swell, rot or form surface ripples. UV resistant.

- **Board sizes and thicknesses for every application**
  Produced in a continuous process, ecopan fully synthetic boards are available in various widths and thicknesses. We supply the facing in standard thicknesses of 22 mm and 16 mm. Please contact us for other thicknesses.

- **Fair-faced concrete without compromise**
  ecopan fully synthetic board provides outstanding fair-faced concrete quality over a long service life. The innovative wood-plastic composite (WPC) outer layer is very resistant and more durable against abrasion than 100% plastic outer layers.

- **Quick and easy to repair**
  Repairs are quick and easy with a proven method using small pieces of board.

- **Easy to work with**
  ecopan fully synthetic board can be nailed, screwed, drilled and sawn – just like wood.

- **Quick and easy to clean**
  ecopan fully synthetic boards can be cleaned dry or with a high-pressure power washer up to 350 bar.

- **Sustainable**
  ecopan fully synthetic boards contain a high proportion of recycled material and can be up to 100% recycled.

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## Technical Information

| Board type | | ecopan 16 | ecopan 22 |
|---|---|---|---|
| General properties | | | |
| Thickness | mm | 16 | 22 |
| Standard format up to | mm | 1800 x 3600 | |
| Large format | mm | 1800 x continuous | |
| Weight | kg/m² | 10,7 | 13,2 |
| E-modulus in bending (3-point) longitudinal and transverse at 21 °C | N/mm² | 5700 | 4500 |
| Bending stress Longitudinal and transverse at 21 °C | N/mm² | 50 | 42 |
| Thermal properties | | | |
| Thermal conductivity | W/mK | 0.094 | |
| Coefficient of longitudinal expansion (thermal) (-23 °C – 50 °C), (10-6 m/(mK)) | | < 40<br>Example: If the facing's temperature rises by 20 °C, it expands by 0.80 mm/m | |
| Operating temperature range | | -20° C bis +80° C | |
| Miscellaneous properties | | | |
| Water absorption | | 0,2 % | |
| Suitability for nailing | | Comparable with phenolic resin-coated timber boards | |
| Surface hardness | | > 68 | |
| Behaviour in fire | | B2 | |

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