

Following information gives initial values for finite element calculations. The values are based on test values. Due to the nature of the product and the range of lay-ups the values in the final product may vary. Always conduct test on the final product for validation.

### Face sheets

Property	Value	Unit
E-Module (parallel/perpendicular to production direction)	13 E3 /10 E3	N/mm <sup>2</sup>
Tensile strength	>100	N/mm <sup>2</sup>
Compressive strength in:		
MonoPan TN 0,7 (0,653 mm)	50	N/mm <sup>2</sup>
MonoPan TN 1,0 (1,0 mm)	60	N/mm <sup>2</sup>
MonoPan TN 1,4 (1,36 mm)	80	N/mm <sup>2</sup>

### Core

Property	Value	Unit
E-Module in compression	65	N/mm <sup>2</sup>
Compressive strength	1,8	N/mm <sup>2</sup>
Shear module	12	N/mm <sup>2</sup>
Shear strength	0,5	N/mm <sup>2</sup>

### **Load bearing capacity of MonoPan**

Maximum bending moments for regular panel types

Description	Value	Unit*
15-MonoPan TN 0,7	600	Nmm/mm
30-MonoPan TN0,7	1100	Nmm/mm
35-MonoPan TN 1,4/2	3800	Nmm/mm

\*: Bending moment in Nmm per mm panel width

Maximum transverse (shear) loads for regular panel types

Description	Value	Unit *
15-MonoPan TN 0,7	5	N/mm
30-MonoPan TN0,7	8,5	N/mm
35-MonoPan TN 1,4/2	22	N/mm

\*: Transverse load in N per mm panel width

The above mentioned load bearing capacity consists of indicative values that can be used for short term loading. The values are based on average values from bending trials. The load bearing capacity for long term load is approximately 50% of the above mentioned values.

Bending stiffness can be calculated according sandwich theory or taken from the available datasheet for the comparable bending modulus.