



LWComposites

From Innovation to Creation

LWC I-Beam concept

Beam Technical Specifications

| Model | Thickness ⁽¹⁾ | Width ⁽¹⁾ | Weight/m (±4%) | Max span ⁽²⁾ | Deflection ⁽³⁾ [mm] | Max working load ⁽⁴⁾ |
|---------|--------------------------|----------------------|-------------------|-------------------------|-----------------------------------|---------------------------------|
| 43x40 T | 43mm | 40mm | 280g | 0,7m | 1,85 | 200 kg |
| 45x40 | 45mm | 40mm | 387g | 0,9m | 2,03 | 200 kg |
| 67x40 | 67mm | 40mm | 530g | 1,35m | 2,08 | 300 kg |
| 67x60 | 67mm | 60mm | 816g | 1,55m | 2,15 | 400 kg |
| 87x60 | 87mm | 60mm | 884g | 1,85m | 2,09 | 600 kg |

Beams always to be loaded normal to face of flange

- (1) ± 2,5%
- (2) Suggested maximum span
- (3) With 100kg central point load, simply supported at max span
- (4) Suggested max safe working load

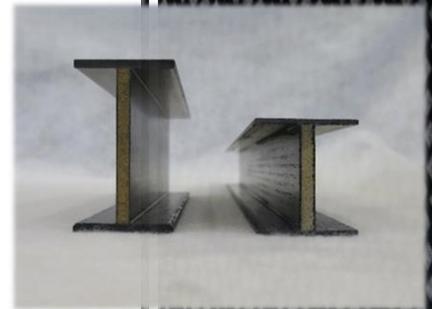
Material Technical Specifications

Properties of ±45° fibers

| | | |
|-----------------------|---------------|------------------------|
| ±45° Tensile Strength | 1124-1237 Mpa | (ISO 527-4) |
| ±45° Tensile Modulus | 63,8-64,5 Gpa | (ISO 527-4) |
| Resin Content | 37-43% | (ASTM D3171 Method II) |

Properties of Uni fibers

| | | |
|------------------|-------------|-------------|
| Tensile Strength | 2458 Mpa | (ISO 527-5) |
| Tensile Modulus | 227-257 Gpa | (ISO 527-5) |
| Resin Content | 32-37% | |



NOTICE

All advice, instruction or recommendation is given in good faith but LWComposites only warrants that advice in writing is given with reasonable skill and care. No further duty or responsibility is accepted by LWComposites. LWComposites strongly recommends that Customers make tests and conduct appropriate testing of any goods or materials supplied by LWComposites to ensure that they are suitable for the Customer's planned application. Such testing should include testing under conditions as close as possible to those to which the final component may be subjected.

LWComposites specifically excludes any warranty of fitness for purpose of the goods other than as set out in writing by LWComposites. LWComposites reserves the right to change specifications without notice and Customers should satisfy themselves that information relied on by the Customer is that which is currently published by LWComposites on its website. Any queries may be addressed to the Technical Services Department. LWComposites are continuously reviewing and updating literature. Please ensure that you have the current version, by contacting LWComposites or your sales