

## Technical Datasheet – HinLam Carbon Laminates

### HinLam 50X1.4/100X1.4

Standard Modulus Carbon Fiber – Laminates



Applications	Properties
<ul style="list-style-type: none"> <li>✓ Infrastructure Repair</li> <li>✓ Wind Energy</li> <li>✓ Oil &amp; Gas</li> <li>✓ Other Structural applications</li> </ul>	<ul style="list-style-type: none"> <li>✓ High Strength &amp; Stiffness</li> <li>✓ Low Density</li> <li>✓ Corrosion Resistant</li> <li>✓ High Fiber volume Fractions</li> </ul>

Hinlam laminates are characterized by high Tensile Modulus & high Tensile Strength. The strips are the pull formed epoxy – carbon composites that are used for strengthening of existing concrete structures by adhering them to a substrate by using an Epoxy Adhesive



Fiber Properties	
Density (g/cm <sup>3</sup> )	<b>1.8</b>
Filament Diameter (µm)	<b>7</b>
Tensile Strength (MPa)	<b>4900</b>
Tensile Modulus (GPa)	<b>250</b>
Elongation (%)	<b>2.0%</b>
Sizing	<b>Epoxy</b>

Plates : Composite Properties	
Resin Type	<b>Epoxy</b>
Tensile Strength* (MPa)	<b>≥ 2000</b>
Tensile Modulus* (GPa)	<b>≥ 165</b>
Density (g/cm <sup>3</sup> )	<b>1.6</b>
Elongation (%)	<b>1.2%</b>
Dimensions** (mm)	<b>100X1.4, 50X1.4</b>

\*Typical Data based on mean values. \*\*Custom Profiles available

### Typical Packaging

Wound in to 100m coils, sealed in a polyethylene bag, firmly secured and placed in a cardboard box

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