ADFORS Roofing Reinforcement Capabilities

ADFORS has the capability to combine fabrics, chemistries, and nonwovens to meet your unique needs. We build something new every day.

Laid Scrim Fabrics
ADFORS specializes in using fiberglass yarns, polyester yarns or a combination thereof to meet modified bitumen needs and specific ASTM standards. Tensile strengths range from 90# up to 400#.

Benefits of laid scrim fabrics include:
- Choice of yarn type and pick count allows engineered tensile strength and elongation

Knit Fiberglass Fabrics
ADFORS technologies combine fiberglass roving and nonwovens to meet high tensile strength requirements in the roofing markets. Tensile strengths range from 270# up to 1000#.

Benefits of knit fabrics include:
- Robust, mechanically fixed fabrics offering exceptional ruggedness through processing and in use

Glass Mats
ADFORS glass mat is a nonwoven material composed of randomly sized fiberglass to produce a strong reinforcement fabric for roofing shingles. These reinforcement fabrics are specifically designed to meet product requirements for underlayment, commercial roofing and residential roofing segments.

Benefits of glass mat fabrics include:
- Strong, stable and heat-resistant reinforcement for increased dimensional stability

Laminating Capabilities – Wet Lamination
ADFORS can laminate glass and/or polyester scrims to your choice of nonwoven (glass mat or various weight polyesters).

We can use any combinations of yarns and nonwovens to meet your processing and performance requirements as well as ASTM standards.

Binder Capabilities
ADFORS specializes in the formulation and development of our own in-house binders. Our chemistries allow us to offer a wide range of binder characteristics including high temperature tolerance, heat sealability and cross linking.
ADFORS offers reinforcements that provide tear strength, puncture resistance, tensile strength and dimensional stability for roofing applications, helping to improve end product performance. Designed to meet ASTM industry standards, our roofing products include fiberglass and polyester scrims, fiberglass knits, glass mats and laminates. Our breadth of products, technologies and capabilities offer the perfect solution for your reinforcing requirements. ADFORS is your only solution provider that is vertically integrated with glass mat and glass yarn supply.

ADFORS can fulfill tensile strength requirements that range from 90# up to 1,000#. With the most complete line of products in the industry, ADFORS provides the solutions to meet your needs.

**Product Cross Reference for ASTM Standards**

<table>
<thead>
<tr>
<th>ASTM Standard</th>
<th>Reinforcement</th>
<th>Machine Direction and Cross Direction Requirements</th>
<th>Covered Applications</th>
<th>ADFORS Product</th>
<th>Construction</th>
<th>Tensile MD/CD peak load (lbs/in)</th>
<th>Weight (oz/yd²)</th>
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<tbody>
<tr>
<td>D6162-00a</td>
<td>glass fiber scrim &amp; polyester nonwoven</td>
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<td></td>
<td>W4603</td>
<td>glass scrim + poly CW + GM</td>
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<td>W3641</td>
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ADFORS
A company with world-class capabilities and worldwide reach

ADFORS is the reliable and innovative global leader in technical textiles, offering the most adapted solutions.

With manufacturing plants located around the world, ADFORS is your reliable source for cost-effective materials. Our global network of research facilities connects with strategically located sales offices to give you comprehensive service. As the world’s leading manufacturer of reinforced fabrics, we take pride in providing creative solutions that help our customers meet unique challenges.

State-of-the-art manufacturing
- Facilities located throughout North America, Europe and Asia

Dedicated R&D
- Pioneering new fabrics and custom products
- Providing innovative solutions

Responsive technical support
- Focused on customer needs

Call 1-888-549-7444 or visit www.adfors.com to learn more.