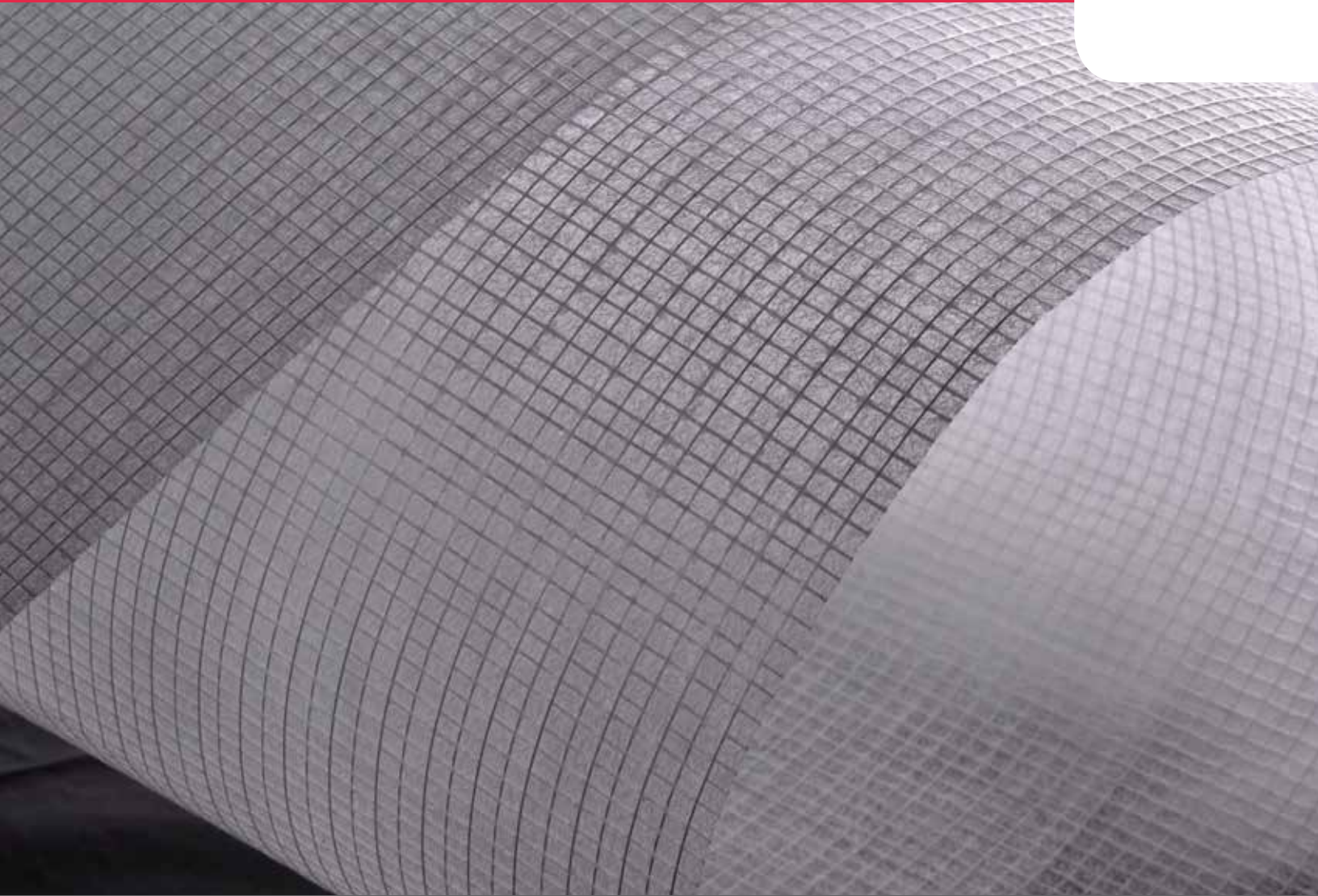


**ADFORS**

Roofing Reinforcements



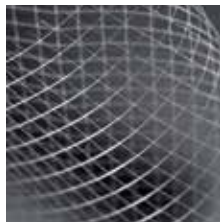
Your partner for innovative textiles



# ADFORS: Your partner for Roofing Reinforcement Solutions

## 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.

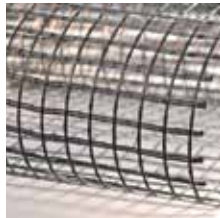


### Laid Scrim Fabrics

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:

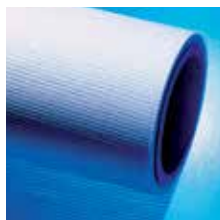
- Strong, stable and heat-resistant reinforcement for increased dimensional stability.



### 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

ASTM Standard	Reinforcement		Machine Direction and Cross Direction Requirements		Covered Applications	ADFORS Product	Construction	Tensile MD/CD peak load (lbs/in)	Weight (oz/yd <sup>2</sup> )
			Tensile, peak load						
			@ -18°C (lbs/in)	@ 23°C (lbs/in)					
D6162-00a	glass fiber scrim & polyester nonwoven	Type I	75	75	SBS Mod Bit sheets	W4603	glass scrim + poly CW + GM	140/140	4.7
		Type II	125	80		W4603	glass scrim + poly CW + GM	140/140	4.7
		Type III	250	250		W4501	glass scrim + poly CW	165/165	3.6
						W4503	glass scrim + poly CW	280/280	5.7
						W4520	glass scrim + poly CW	345/345	6.8
D6163-00	glass fiber scrim & glass mat	Type I	70	30	SBS Mod Bit Sheets	W3641	glass scrim + GM	150/138	4.7
		Type II	150	80		W3640	glass scrim + GM	150/150	4.4
						W3641	glass scrim + GM	150/138	4.7
						W3645	glass scrim + GM	185/185	5.3
	knit fiberglass roving & polyester nonwoven				High-Tensile Knits for Specialty Applications	W4661	knit glass + PCW	270/360	10.89
						W4667	knit glass + PCW	480/500	13.24
						W4665	knit glass + PCW	870/720	20.6

## 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](http://www.adfors.com) to learn more.

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