



Competitive Information

ASTM Standards for SBS Products

As the warm weather roofing season begins, roofing projects for school systems and other public facilities are out for bid. Many of those specifications call for SBS products that conform to ASTM standards D 6162 (the JM product) and D 6163 (the Siplast product). There are several reasons why Firestone's D 6164 SBS out performs those other product offerings. Many in the specifying community are not aware of these facts.

In every case Firestone's polyester reinforced SBS products outperform the other products in service, providing greater elongation and recovery, flexibility, puncture strength, and foot traffic resistance. In many cases, Firestone SBS meets or exceeds the properties of all three ASTM standards.

The following table summarizes the property requirements and performance values for the three ASTM SBS Standards compared to Firestone SBS.

ASTM Standards 6162 vs. 6163 vs. 6164

1. The ASTM Standard TITLES are different:

6162 = "...Using a Combination of Polyester and Glass Fiber reinforcements"

6163 = "...Using Glass Fiber Reinforcements"

6164 = "...Using Polyester Reinforcements"

The latest revision (2005) of ASTM D 6164 includes the following paragraph:

"Many modified bituminous sheets are currently marketed with polyester mat reinforced with glass yarns to improve processing in the manufacture of the finished modified bitumen product and to reduce distortions that may be introduced during production. These glass yarns are typically a small percentage of the reinforcement and do not contribute to the physical properties of the finished product so much as to make these products be classified by D6162."

2. Though the finished product properties for ASTM type II products are different, **Firestone SBS Premium FR and SBS Premium FR Torch exceed** the physical properties of:
1. **6164** Type II
 2. **6162** Type II
 3. **6163** Type II, except strength at 0°F
3. The polyester mat used in **Firestone SBS Premium FR and SBS Premium FR Torch** provides greater puncture and fatigue resistance than 6162 and 6163 products.

Property	6162 Type II, Grade G ASTM Requirement	6163 Type II, Grade G ASTM Requirement	6164 Type II, Grade G ASTM Requirement	Firestone SBS Premium FR Typical
	Thickness, mils, Granule	130	95	130
Weight, lbs/100ft ² , Granule	75	65	75	93.7
Strength @ 0 °F, min	125	150	100	126
Elongation @ 0 °F, min	2	2	20	50
Strength @ 73 °F, min	80	80	70	80
Elongation @ 73 °F, min	4	4	50	52
Ultimate Elongation (5%), min	75	40	60	91
Tear Strength lbf, min.	90	110	70	128
Low Temp Flex °F, max	0	0	0	-15
Dimensional Stability %, max	0.5	0.5	1	0.2
Compound Stability, °F min	225	215	215	250