4 Product Data Sheets

Firestone has developed a complete range of roofing products, including EPDM membranes, flashings, adhesives, QuickSeam products, sealants, cleaning agents, fasteners and a variety of other roofing related products to build up homogeneous EPDM Roofing Systems. Each component has been carefully selected to offer the performance required by the specifications, while being compatible with the various roofing designs outlined in this document. This chapter contains information with regard to the following Firestone products:

EPDM Membranes And Flashings

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The designer and contractor may refer to this section for information with regard to the individual components: installation, coverage rate, basic physical properties, packaging, shelf life, storage conditions and safety precautions. In addition to these components, other products and accessories not supplied by Firestone will have to be used in conjunction with the Firestone Roofing Systems such as structural decking, thermal insulation, fasteners, edging profiles, drain outlets, etc. It is the responsibility of the respective suppliers of these products as to their suitability for any particular purpose.
At the same time, it is recommended that the designer and/or contractor consults Firestone on a job to job basis, when using non-Firestone products that are not in compliance with the specifications outlined in this document.

RubberGard EPDM Roofing Membrane

1. Description

The Firestone RubberGard EPDM membrane is a 100% cured roofing membrane made of a synthetic rubber Ethylene-Propylene-Diene Terpolymer. The sheet is made of two plies of standard compound.

2. Preparation

Roofing structure needs to be stable enough to support the temporary loading. Substrates need to be clean, smooth, dry and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the membrane. All surface voids greater than 5 mm wide shall be properly filled with an acceptable fill material.

3. Application

Allow the membrane to relax for approximately 30 minutes before splicing or final securement. Install the RubberGard EPDM membrane in accordance with the installation instructions and details.

4. Coverage

The dimensions of the membrane are calculated to cover the substrate, including seam overlaps (100 mm for standard seams - 200 mm for seams with batten in the seam) and upstands. Provide an additional length (150 mm) at upstands for easy manipulation.

5. Characteristics

Physical

- Excellent resistance to U.V. and ozone
- Temperature stable from -45°C to 130°C
- Retains its elasticity at low temperature and resistant to temperature shocks up to 250° C
- Excellent resistance to alkali rains, less resistant to oil products. Contact with mineral and vegetable oils, petroleum based products, hot bitumen and grease must be avoided

Technical	**Test Method**	**Value**
■ Thickness	EN 1849.2	1.14 mm ± 10%
		1.52 mm ± 10%
	ASTM D 412	Nominal ± 10%
■ Tensile strength	EN 12311.2	≥ 8 N/mm^2
	ASTM D 412 (Die C)	≥ 9 N/mm^2, typically 9.8 N/mm^2
■ Elongation	EN 12311.2	≥ 300 %
	ASTM D 412 (Die C)	≥ 300 %, typically 450%
■ Tear resistance	EN 12112.2	≥ 50 N
	ASTM D 624 (Die C)	≥ 26,3 kN/m, typically 35 kN/m
■ Brittleness point	ASTM D 2137	<-45°C, typically -53°C
■ UV resistance: 4000 hours QUV, UVB 313	ASTM G 53-84	No cracks or crazing
■ Ozone resistance	ASTM D 1149	No cracks or crazing
■ Dimensional stability	EN 1107.2	≤ 0.5%
	ASTM D 1204	≤ 1%
■ Water absorption	ASTM D 471	≤ 2%

Note: As European standards continue to develop, please contact Firestone Technical Services or Firestone Building Products Europe Website for latest updates on physical properties.

6. Packaging / Storage / Shelf Life

Thickness (mm)	Width (m)	Length (m)	Weight (kg/m²)
1.14 (0.045")	2.30* (7.5') 3.05 (10') 6.10 (20') 7.60 (25') 9.15 (30') 12.20 (40') 15.25 (50')	15.25 (50') & 30.50 (100') & 61.00 (200')	1.41
	5.08 (16.7')	30.50 (100')	1.41
1.52 (0.060")	2.30* (7.5') 3.05 (10') 6.10 (20')	15.25 (50') & 30.50 (100') & 61.00 (200')	1.95
	5.08 (16.7')	30.50 (100')	1.95

** Packaged two panels per roll*

Storage: Store away from sources of punctures and physical damage. Store away from ignition sources and open flame.
Shelf Life: Unlimited.

RubberGard EPDM FR Fire Retardant Roofing Membrane

1. Description

The Firestone RubberGard EPDM FR Fire Retardant membrane is a 100% cured roofing membrane made of a synthetic rubber Ethylene-Propylene-Diene Terpolymer. The Fire Retardant sheet is made up of a bottom ply of standard and a top ply of fire retardant compound.

2. Preparation

Roofing structure needs to be stable enough to support the temporary loading. Substrates need to be clean, smooth, dry and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the membrane. All surface voids greater than 5 mm wide shall be properly filled with an acceptable fill material.

3. Application

Allow the membrane to relax for approximately 30 minutes before splicing or final securement. Install the RubberGard EPDM FR membrane in accordance with the installation instructions and details. It is important that the side of the sheet imprinted with the direction "This Side Down" be installed in direct contact with the substrate to achieve respective fire rating compliance.

4. Coverage

The dimensions of the membrane are calculated to cover the substrate, including seam overlaps (100 mm for standard seams - 200 mm for seams with batten in the seam) and upstands. Provide an additional length (150 mm) at upstands for easy manipulation.

5. Characteristics

Physical

- Excellent fire-resistance properties
- Excellent resistance to U.V. and ozone
- Temperature stable from -45°C to 130°C
- Retains its elasticity at low temperature and resistant to temperature shocks up to 250° C
- Excellent resistance to alkali rains, less resistant to oil products. Contact with mineral and vegetable oils, petroleum based products, hot bitumen and grease must be avoided

Technical

	Test Method	Value
Thickness	EN 1849.2	1.14 mm ± 10%
		1.52 mm ± 10%
	ASTM D 412	Nominal ± 10%
Tensile strength	EN 12311.2	≥ 8 N/mm^2
	ASTM D 412 (Die C)	≥ 9 N/mm^2, typically 10.1 N/mm^2
Elongation	EN 12311.2	≥ 300 %
	ASTM D 412 (Die C)	≥ 300 %, typically 350%
Tear resistance	EN 12112.2	≥ 40 N
	ASTM D 624 (Die C)	≥ 26,3 kN/m, typically 33.2 kN/m
Brittleness point	ASTM D 2137	<-45°C, typically -52°C
UV resistance: 4000 hours QUV, UVB 313	ASTM G 53-84	No cracks or crazing
Ozone resistance	ASTM D 1149	No cracks or crazing
Dimensional stability	EN 1107.2	≤ 0.5%
	ASTM D 1204	≤ 1%
Water absorption	ASTM D 471	≤ 2%

Note: As European standards continue to develop, please contact Firestone Technical Services or Firestone Building Products Europe Website for latest updates on physical properties.

6. Packaging / Storage / Shelf Life

Thickness (mm)	Width (m)	Length (m)	Weight (kg/m²)
1.14 (0.045") FR	3.05 (10') 6.10 (20')	15.25 (50') & 30.50 (100')	1.51
	2.30* (7.5')	30.50 (100')	1.51
1.52 (0.060") FR	3.05 (10') 6.10 (20')	15.25 (50') & 30.50 (100')	2.10
	2.30* (7.5')	30.50 (100')	2.10

** Packaged two panels per roll*

Storage: Store away from sources of punctures and physical damage. Store away from ignition sources and open flame.
Shelf Life: Unlimited.

RubberGard MAX Reinforced EPDM Roofing Membrane

1. Description

The Firestone RubberGard MAX Reinforced EPDM membrane is a 100% cured roofing membrane made of a synthetic rubber Ethylene-Propylene-Diene Terpolymer. The RubberGard MAX sheet is made of two plies of standard compound, internally reinforced with a high strength polyester weft scrim.

2. Preparation

Roofing structure needs to be stable enough to support the temporary loading. Substrates need to be clean, smooth, dry and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the membrane. All surface voids greater than 5 mm wide shall be properly filled with an acceptable fill material.

3. Application

Allow the membrane to relax for approximately 30 minutes before splicing or final securement. Install the RubberGard MAX membrane in accordance with the installation instructions and details.

4. Coverage

The dimensions of the membrane are calculated to cover the substrate, including seam overlaps (100 mm for standard seams - 200 mm for seams with batten or plates in the seam) and upstands. Provide an additional length (150 mm) at upstands for easy manipulation.

5. Characteristics

Physical

- Good combination of high elasticity and tensile strength
- Excellent resistance to U.V. and ozone
- Temperature stable from -45°C to 130°C
- Retains its elasticity at low temperature and resistant to temperature shocks up to 250° C
- Excellent resistance to alkali rains, less resistant to oil products. Contact with mineral and vegetable oils, petroleum based products, hot bitumen and grease must be avoided

Technical

	Test Method	Value
Thickness	ASTM D 412	Nominal ± 10%
Breaking strength	ASTM D 751 (Grab method)	≥ 400 N, typically 1068 N
Elongation	ASTM D 412 (Die C)	≥ 250%, typically 450%
Tear resistance	ASTM D 751 (Tongue Tear)	≥ 45 N, typically 267 N
Brittleness point	ASTM D 2137	<-45°C, typically -54°C
UV resistance: 4000 hours QUV, UVB 313	ASTM G 53-84	No cracks or crazing
Ozone resistance	ASTM D 1149	No cracks or crazing
Dimensional stability	ASTM D 1204	≤ 1%
Water absorption	ASTM D 471	≤ 2%

6. Packaging / Storage / Shelf Life

Thickness (mm)	Width (m)	Length (m)	Weight (kg/m²)
1.14 (0.045")	2.30 (7.5') 3.05 (10')	30.50 (100')	1.56
1.52 (0.060")	2.30 (7.5') 3.05 (10')	30.50 (100')	2.05

Storage: Store away from sources of punctures and physical damage. Store away from ignition sources and open flame.
Shelf Life: Unlimited.

RubberGard MAX FR Reinforced Fire Retardant EPDM Roofing Membrane

1. Description

The Firestone RubberGard MAX FR Reinforced Fire Retardant EPDM membrane is a 100% cured roofing membrane made of a synthetic rubber Ethylene-Propylene-Diene Terpolymer. The RubberGard MAX FR sheet is made up of two plies of fire retardant compound, internally reinforced with a high strength polyester weft scrim.

2. Preparation

Roofing structure needs to be stable enough to support the temporary loading. Substrates need to be clean, smooth, dry and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the membrane. All surface voids greater than 5 mm wide shall be properly filled with an acceptable fill material.

3. Application

Allow the membrane to relax for approximately 30 minutes before splicing or final securement. Install the RubberGard MAX FR membrane in accordance with the installation instructions and details.

4. Coverage

The dimensions of the membrane are calculated to cover the substrate, including seam overlaps (100 mm for standard seams - 200 mm for seams with batten or plates in the seam) and upstands. Provide an additional length (150 mm) at upstands for easy manipulation.

5. Characteristics

Physical

- Good combination of high elasticity and tensile strength
- Excellent fire-resistance properties
- Excellent resistance to U.V. and ozone
- Temperature stable from -45°C to 130°C
- Retains its elasticity at low temperature and resistant to temperature shocks up to 250°C
- Excellent resistance to alkali rains, less resistant to oil products. Contact with mineral and vegetable oils, petroleum based products, hot bitumen and grease must be avoided

Technical

	Test Method	Value
Thickness	ASTM D 412	Nominal ± 10%
Breaking strength	ASTM D 751 (Grab method)	≥ 400 N, typically 1068 N
Elongation	ASTM D 412 (Die C)	≥ 250%, typically 400%
Tear resistance	ASTM D 751 (Tongue Tear)	≥ 45 N, typically 267 N
Brittleness point	ASTM D 2137	<-45°C, typically -54°C
UV resistance: 4000 hours QUV, UVB 313	ASTM G 53-84	No cracks or crazing
Ozone resistance	ASTM D 1149	No cracks or crazing
Dimensional stability	ASTM D 1204	≤ 1%
Water absorption	ASTM D 471	≤ 2%

6. Packaging / Storage / Shelf Life

Thickness (mm)	Width (m)	Length (m)	Weight (kg/m²)
1.14 (0.045") FR	2.30 (7.5') 3.05 (10')	30.50 (100')	1.56
1.52 (0.060") FR	2.30 (7.5') 3.05 (10')	30.50 (100')	2.05

Storage: Store away from sources of punctures and physical damage.
Shelf Life: Unlimited.

RubberGard EPDM FormFlash

1. Description

Firestone RubberGard EPDM FormFlash is a self-curing EPDM membrane flashing, adaptable to irregular shapes and designed to flash the system details in accordance with the Firestone specifications and details.

2. Preparation

Substrate must be clean, dry, smooth, and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the material. All surface voids greater then 5 mm wide shall be properly filled with an acceptable fill material.

3. Application

This material is only used for flashing details as per the Firestone RubberGard specifications. The FormFlash is adhered to the substrate with Splice Adhesive. The edge of each splice has to be protected with Lap Sealant. During cold weather a heat gun may be used to mould the FormFlash and improve its workability, but care should be taken not to localize heat as a hole in the FormFlash can result.

4. Coverage

The dimensions of the FormFlash depend on the detail to be flashed. Every overlap should be at least 100 mm. Refer to the Firestone specifications and details for specific information.

5. Characteristics

Physical

- Easily adaptable to irregular shapes and surfaces
- Superior weathering characteristics
- Self-curing EPDM material, with same characteristics as the EPDM membrane after curing (>12 months)
- Excellent resistance to alkali rains, less resistant to oil products. Contact with mineral and vegetable oils, petroleum based products, hot bitumen and grease must be avoided

Technical

Base	EPDM
Colour	Black
State	Uncured
Thickness (mm)	1.4 (0.055″)

6. Packaging / Storage / Shelf Life

Width (mm)	Length (m)	Packaged	Weight (kg/m²)
152 (6″)	30.5 (100′)	2 rolls/carton	1.71
229 (9″)	30.5 (100′)	2 rolls/carton	1.71
305 (12″)	30.5 (100′)	2 rolls/carton	1.71
457 (18″)	30.5 (100′)	1 roll/carton	1.71
609 (24″)	30.5 (100′)	1 roll/carton	1.71
914 (36″)	30.5 (100′)	1 roll/carton	1.71
1219 (48″)	30.5 (100′)	1 roll/carton	1.71

Storage: Store in original sealed carton at temperatures between 15°C and 25°C. Do not expose to sunlight and elevated temperatures before use. Keep away from fire and ignition sources during storage and installation.
Shelf Life: 12 months, if stored in accordance with above-mentioned conditions. Verify production date at inside of cardboard roll. Exposure to elevated temperatures will shorten the shelf life.

QuickPrime Plus

1. Description

Firestone QuickPrime Plus is designed to clean and prime the RubberGard EPDM membrane prior to application of QuickSeam products. QuickPrime Plus must be applied with a QuickScrubber or QuickScrubber Plus pad and handle. QuickPrime Plus may also be used as an alternative to Splice Wash to clean the RubberGard EPDM membrane prior to the application of Firestone Splice Adhesive.

2. Preparation

Surfaces to be primed must be clean, dry and free of foreign materials, talc and dirt. Pre-cleaning with Splice Wash may be required. Stir QuickPrime Plus thoroughly before and during use. When exposed to lower temperatures for a prolonged period of time, restore to room temperature prior to use. Pour 1 gallon of QuickPrime Plus into a bucket for ease of application.

3. Application

Apply QuickPrime Plus to the RubberGard EPDM surfaces with the QuickScrubber or QuickScrubber Plus pad and handle using long back and forth strokes with moderate to heavy pressure along the length of the area. Continue until surfaces become dark grey in colour (no streaking or puddling). Factory seams require parallel as well as perpendicular application motions along the factory seam. When using the QuickScrubber Plus pad and handle, make sure to apply sufficient pressure during application so the pad holder flattens to allow the total surface of the pad to contact with the RubberGard EPDM membrane. Allow the primed surfaces to dry completely according to the touch-push test (usually less than 10 minutes) before applying QuickSeam products or Splice Adhesive.

4. Coverage

Thinning is not allowed. The following coverage rates can be achieved with 1 gallon:
Standard seam with 76 mm (3") Splice Tape: 60 lm - 2 sides
B.I.S. seam with 178 mm (7") Splice Tape: 45 lm - 2 sides
QuickSeam Batten Cover Strip: 90 lm - 1 side
QuickSeam Flashing 127 mm (5"): 120 lm - 1 side
QuickSeam RPF Strip: 100 lm - 1 side

5. Characteristics

Technical	■ Base	Synthetic polymers
	■ Colour	Translucent grey
	■ Solvents	Heptane, toluene, methanol
	■ Solids (%)	16 - 18
	■ Viscosity	Very thin, free flowing
	■ Specific gravity	0.793 (Water = 1)
	■ Flash point (°C)	-17.77

6. Packaging / Storage / Shelf Life

Packaging: 3.8 l (1 gallon) pails (6 pails per box) and 11.4 l (3 gallon) pails
Storage: Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application.
Shelf Life: 12 months, when stored in above-mentioned conditions. Verify production date on each pail. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Flammable. Keep away from sources of ignition. Do not smoke when using. For professional use only. Use only in well ventilated areas. Avoid contact with skin and eyes. Refer to Material Safety Data Sheets. Keep out of the reach of children.

Bonding Adhesive (BA-2004)

1. Description

Bonding Adhesive BA 2004 is a neoprene based contact adhesive designed for bonding RubberGard EPDM membranes to wood, masonry, metal and other acceptable substrates.

2. Preparation

Surfaces on or against which Bonding Adhesive is to be applied must be clean, smooth, dry and free of sharp edges, loose materials, oil, grease and other contaminants. The mating surface of the membrane shall be cleaned with a brush or clean rag. Stir the adhesive thoroughly before and during use, achieving a uniform mix with no sediment on the bottom and no marbling evident. Restore the adhesive to room temperature prior to use, if exposed to temperatures lower than 15°C for a prolonged period.

3. Application

Apply adhesive in an even, smooth coat on both surfaces with a solvent resistant paint roller (short hairs) or a spray rig designed to apply adhesives. Avoid globs and puddles. Allow adhesive to flash off until tacky (time depending on ambient air conditions) prior to mating the surfaces. Test the adhesive for its dryness, using the push-touch test procedure as described in the installation instructions.

4. Coverage

The adhesive must be applied at a uniform rate to both the membrane and the roof substrate. Coverage rates depend on smoothness of substrate and method of application:
Manual application: between 5 and 7 m^2 per gallon (two sides)
Automatic equipment: between 7 and 9 m^2 per gallon (two sides)

5. Characteristics

Technical	■ Base	Polychloroprene (neoprene)
	■ Colour	Yellow
	■ Solvents	Toluene, Hexane, Acetone
	■ Solids (%)	23
	■ Viscosity (cp)	2300-3000
	■ Specific gravity	0.845 ± 5%
	■ Flash point (° C)	< -17.7

6. Packaging / Storage / Shelf Life

Packaging: 18.9 l (5 gallon) pail
Storage: Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application.
Shelf Life: 12 months, when stored in above-mentioned conditions. Verify production date on each pail. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Flammable. Keep away from sources of ignition. Do not smoke when using. For professional use only. Use only in well ventilated areas. Avoid contact with skin and eyes. Refer to Material Safety Data Sheets. Keep out of the reach of children. Recommended cleaner is toluene (while fluid).

Water-Based Bonding Adhesive

1. Description

Water-Based Bonding Adhesive is a contact adhesive designed for bonding RubberGard EPDM to wood, masonry, metal and other acceptable substrates.

2. Preparation

Surfaces on or against which Water-Based Bonding Adhesive is to be applied must be clean, smooth, dry and free of sharp edges, loose materials, oil, grease and other contaminants. The mating surface of the membrane shall be cleaned with a brush or clean rag. Stir the adhesive thoroughly before and during use, achieving a uniform mix with no sediment on the bottom and no marbling evident. Restore the adhesive to room temperature prior to use, if exposed to temperatures lower than 15°C for a prolonged period.

3. Application

Water-Based Bonding Adhesive should not be used at temperatures below 5°C. Do not attempt to use Water-Based Bonding Adhesive when there is a possibility of freezing temperatures within 48 hours after application.
Apply adhesive in an even, smooth coat on both surfaces with a solvent resistant paint roller or a spray rig designed to apply adhesives. Avoid globs and puddles. Allow adhesive to flash off until tacky (time depending on ambient air conditions) prior to mating the surfaces. Test the adhesive for its dryness, using the push-touch test procedure as described in the installation instructions. In addition, Water-Based Bonding Adhesive will change from dark grey to translucent while the carrier evaporates.

Note: On certain substrates, Water-Based Bonding Adhesive can be applied in a 1-coat application (wet mating). Contact Firestone's Technical Departement for more information.

4. Coverage

Thinning of the adhesive is not allowed. The adhesive must be applied at a uniform rate to both the membrane and the roof substrate. Coverage rates depend on smoothness of substrate and method of application. Coverage rates between 10 and 15 m^2 per gallon (two sides).

5. Characteristics

Technical	■ Base	Latex/neoprene blend
	■ Colour	Grey (when first applied) Dark translucent (when carrier evaporates)
	■ Solids (%)	50 (min)
	■ Viscosity (cp)	15000
	■ Specific gravity	1.03
	■ Flash point (°C)	76.7

6. Packaging / Storage / Shelf Life

Packaging: 18.9 l (5 gallon) pail
Storage: Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application. Do not allow to freeze.
Shelf Life: 6 months, when stored in above-mentioned conditions. Verify production date on each pail. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

For professional use only. Use only in well ventilated areas. Avoid contact with skin and eyes. Refer to Material Safety Data Sheets. Keep out of the reach of children. Recommended cleaner is water (while fluid).

Splice Adhesive (SA-1065)

1. Description

Firestone's Splice Adhesive is a contact adhesive, designed for splicing RubberGard membrane flashings, FormFlash strips and the attachment of field membrane panels to metal surfaces as described in the Firestone specifications.

2. Preparation

Surfaces to be adhered must be cleaned with Splice Wash using cotton cloths. Allow to dry. Proper cleaning has been achieved when the membrane surface is dark grey in colour and no streaking is evident. As an alternative, the seaming area can also be cleaned using QuickPrime Plus and QuickScrubber or QuickScrubber Plus. Stir the adhesive thoroughly before and during use, achieving a uniform mix with no sediment on the bottom and no marbling evident. Restore the adhesive to room temperature prior to use, if exposed to temperatures lower than 15ºC for a prolonged period.

3. Application

Apply a thick, even, smooth coat on both surfaces using a 75 to 100 mm wide, solvent resistant paintbrush. Do not use circular motions for applying Splice Adhesive, do not use paint rollers or a brush attached to a long handle. Allow the adhesive to flash off, prior to mating the surfaces (flash-off time depends on ambient air conditions). Test the adhesive for its dryness, using the push-touch test procedure as described in the installation instructions.

4. Coverage

Thinning of the adhesive is not allowed. A uniform application is required to avoid mixed results. Coverage rate for a standard splice width of 100 mm, both sides, is 30 lm per gallon.

5. Characteristics

Technical	■ Base	Synthetic polymers
	■ Colour	Black
	■ Solvents	Hexane, toluene, xylene
	■ Solids (%)	26 (min)
	■ Viscosity (cp)	2900-3700
	■ Specific gravity	0.876 ± 5%
	■ Flash point (° C)	-17.7

6. Packaging / Storage / Shelf Life

Packaging: 3.8 l (1 gallon) pail - 4 pails per box
Storage: Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application.
Shelf Life: 9 months, when stored in above-mentioned conditions. Verify production date on each pail. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Flammable. Keep away from sources of ignition. Do not smoke when using. For professional use only. Use only in well ventilated areas. Avoid contact with skin and eyes. Refer to Material Safety Data Sheets. Keep out of the reach of children. Recommended cleaner is Firestone Splice Wash (while fluid). After can has been opened once and closed, use remainder of the adhesive within one week.

Splice Wash (SW-100)

1. Description

Firestone Splice Wash SW-100 is designed to clean and prepare the RubberGard EPDM membranes in areas to receive adhesives where required by Firestone specifications and details. Do not use as a pre-wash for any QuickSeam Tape product - QuickPrime Plus must be used for QuickSeam Tape Products.

2. Preparation

Remove excess accumulations of dirt with a brush.

3. Application

Firestone Splice Wash is generally used at all field splices where Splice Adhesive is applied. Apply Splice Wash to the splicing area using clean cotton rags in a scrubbing motion until the splicing surface is dull black in colour. Take extra care at factory seams and allow the washed surfaces to dry. Membrane is clean when it is uniformly dark grey in colour without streaks.

4. Coverage

Thinning is not allowed. Coverage rate for a standard seam 100 mm width, both sides, is 60 lm per gallon.

5. Characteristics

Physical	■ Flammable liquid	
Technical	■ Colour	Clear
	■ Solvents	Aliphatic hydrocarbon mixture
	■ Viscosity	Very thin, free flowing
	■ Specific gravity	0.75
	■ Flash point (°C)	12.8
	■ Boiling point (°C)	119

6. Packaging / Storage / Shelf Life

Packaging: 18.9 l (5 gallon) - pails
Storage: Store in original unopened containers at temperatures between 15°C and 25°C away from all sources of direct heat and ignition. This is a flammable liquid. Keep the material out of direct sunlight until ready for application.
Shelf Life: 12 months, when stored in above-mentioned conditions. Verify production date on each pail. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Flammable liquid. Keep away from sources of ignition. Do not smoke when using. For professional use only. Use only in well ventilated areas. Avoid contact with skin and eyes. Avoid breathing vapours. Refer to Material Safety Data Sheets. Keep out of the reach of children.

QuickSeam Splice Tape

1. Description

Firestone's 76 mm (3") and 178 mm (7") QuickSeam Splice Tape is designed for field splicing of RubberGard EPDM membrane panels.

2. Preparation

The RubberGard EPDM surfaces must be prepared with QuickPrime Plus, using a QuickScrubber or QuickScrubber Plus tool. Use of other products is not allowed. Restore the tape to room temperature prior to use if exposed to temperatures below 15°C for prolonged periods.

3. Application

A 76 mm (3") wide tape is used for splicing standard seams without mechanical attachment in the seam. A 178 mm (7") wide tape is used for splicing seams with mechanical attachment centred within the seam. Refer to the Firestone installation guidelines for specific installation instructions.

4. Coverage

In accordance with length of seam. At end of the roll, overlap a minimum of 25 mm (1").

5. Characteristics

Physical	■ Excellent moisture resistance	
	■ Excellent resistance to heat and cold	
	■ Excellent green tack	
Technical	■ Base	Rubber polymers
	■ Colour	Black
	■ Solvents	None
	■ Solids (%)	100
	■ State	Cured
	■ Thickness	0.76 mm ± 0.127 mm

6. Packaging / Storage / Shelf Life

Width (mm)	Length (m)	Packaging
76 (3")	30.5 (100')	6 rolls/carton
178 (7")	30.5 (100')	2 rolls/carton

Note: QuickScrubber and/or QuickScrubber Plus pads and handles are included in each carton. Quantities vary depending on the QuickSeam product.

Storage: Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application.
Shelf Life: 12 months, when stored in above-mentioned conditions. Verify production date on each roll. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Refer to Material Safety Data Sheets.

QuickSeam Reinforced Perimeter Fastening Strip

1. Description

Firestone's QuickSeam Reinforced Perimeter Fastening Strip is a 152 mm (6") wide, non-dusted strip of RubberGard MAX Reinforced EPDM membrane with a 76 mm (3") wide QuickSeam tape factory laminated to it along one edge. The strip is used for non-penetrating base tie-ins as described in the Firestone specifications.

2. Preparation

The substrate needs to be clean, smooth, dry and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the material.
Restore to room temperature prior to use, if exposed to temperatures below 15°C for prolonged periods.

3. Application

Unroll the QuickSeam Reinforced Perimeter Fastening Strip (QSRPF Strip) with the release paper up and the tape portion furthest away from the wall or penetration. Once the strip lies flat, fasten it to the substrate with Firestone Batten Strips or Firestone V-plates and fasteners (max. 300 mm o.c.) and complete the base tie-in detail as per Firestone specifications and details.

4. Coverage

In accordance with length of tie-in detail.

5. Characteristics

Technical	RubberGard MAX	QuickSeam Tape
■ Base	EPDM	Rubber polymers
■ Colour	Black	Black
■ Solvents	None	None
■ Solids (%)	100	100
■ Thickness (mm)	1.52	0.77
■ Width (mm)	152	76

6. Packaging / Storage / Shelf Life

Packaging: 30.5 m (100') rolls, 2 rolls per carton
Note: QuickScrubber and/or QuickScrubber Plus pads and handles are included in each carton. Quantities vary depending on the QuickSeam product.
Storage: Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application.
Shelf Life: 12 months, when stored in above-mentioned conditions. Verify production date on each roll. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Refer to Material Safety Data Sheets.

QuickSeam R.M.A. Strip

1. Description

Firestone's QuickSeam R.M.A. Strip is a 254 mm (10") wide, non-dusted strip of RubberGard MAX Reinforced EPDM membrane with two 76 mm (3") wide QuickSeam tape strips factory laminated to it along both edges. The strip is used for non-penetrating RubberGard EPDM membrane attachment as specified in the Firestone specifications and details.

2. Preparation

The substrate needs to be clean, smooth, dry and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the material.
Restore to room temperature prior to use, if exposed to temperatures below 15°C for prolonged periods.

3. Application

Unroll the QuickSeam R.M.A. Strip with the release paper up in accordance with the layout plan specified. Once the strip lays flat, fasten it to the substrate with Firestone Batten Strips or Firestone V-plates and fasteners (max. 300 mm. o.c.) and install the RubberGard EPDM membrane as specified in the Firestone specifications and details.

4. Coverage

In accordance with length of mechanical attachment.

5. Characteristics

Technical	RubberGard MAX	QuickSeam Tape (2 x)
■ Base	EPDM	Rubber polymers
■ Colour	Black	Black
■ Solvents	None	None
■ Solids (%)	100	100
■ Thickness (mm)	1.52	0.63
■ Width (mm)	254	76

6. Packaging / Storage / Shelf Life

Packaging: 30.5 m (100') rolls, 1 roll per carton
Note: QuickScrubber and/or QuickScrubber Plus pads and handles are included in each carton. Quantities vary depending on the QuickSeam product.
Storage: Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application.
Shelf Life: 12 months, when stored in above-mentioned conditions. Verify production date on each roll. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Refer to Material Safety Data Sheets.

QuickSeam Batten Cover Strip

1. Description

The Firestone QuickSeam Batten Cover strip is a 152 mm wide (6") semi-cured EPDM strip laminated to a cured butyl tape. The strip is designed to cover and seal Batten Strips as specified in the Firestone mechanically attached system.

2. Preparation

The RubberGard EPDM surfaces and attachment components within the seaming area must be prepared with QuickPrime Plus, using a QuickScrubber or QuickScrubber Plus tool. Use of other products is not allowed. Restore the product to room temperature prior to use if exposed to temperatures below 15ºC for prolonged periods.

3. Application

Only apply the strip in one dimension, i.e. do not work the product from horizontal to vertical. Refer to the Firestone Specifications for specific installation instructions.

4. Coverage

In accordance with length of Batten Strip to be covered. Provide an overlap of 75 mm minimum at the end of the bar. Adjoining QuickSeam Batten Cover strips require an overlap of 25 mm and a cover patch.

5. Characteristics

Technical	EPDM Flashing	QuickSeam Tape
■ Base	EPDM	Rubber polymer
■ Colour	Black	Black
■ Solvents	None	None
■ Solids (%)	100	100
■ State	Semi-cured	Cured
■ Thickness (mm)	1.02	0.88
■ Width (mm)	152	156

6. Packaging / Storage / Shelf Life

Packaging: 30.5 m (100') rolls, 2 rolls per carton
Note: QuickScrubber and/or QuickScrubber Plus pads and handles are included in each carton. Quantities vary depending on the QuickSeam product.
Storage: Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application.
Shelf Life: 12 months, when stored in above-mentioned conditions. Verify production date on each roll. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Refer to Material Safety Data Sheets.

QuickSeam Flashing

1. Description

QuickSeam Flashing is a 127 mm wide uncured EPDM strip laminated to a cured seaming tape. The strip is designed to flash metal roof edging profiles and other details, as specified in the Firestone EPDM Systems.

2. Preparation

The RubberGard EPDM surfaces and metal profiles must be prepared with QuickPrime Plus, using a QuickScrubber or QuickScrubber Plus tool. Use of other products is not allowed. Restore the product to room temperature prior to use if exposed to temperatures below 15°C for prolonged periods.

3. Application

Only apply the strip in one or two dimensions (flat or maximum one angle change). Do not use the product for 3-dimensional details (e.g. corners) or details where the product will have to be stretched.

4. Coverage

In accordance with length of edge detail. Adjoining strips require an overlap of 25 mm and a cover patch.

5. Characteristics

Technical	EPDM Flashing	QuickSeam Tape
■ Base	EPDM	Rubber polymers
■ Colour	Black	Black
■ Solvents	None	None
■ Solids (%)	100	100
■ State	Uncured	Cured
■ Thickness (mm)	1.14	1.14
■ Width (mm)	127	133

6. Packaging / Storage / Shelf Life

Packaging: 30.5 m (100') rolls, 2 rolls per carton
Note: QuickScrubber and/or QuickScrubber Plus pads and handles are included in each carton. Quantities vary depending on the QuickSeam product.
Storage: Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application.
Shelf Life: 6 to 9 months, when stored in above-mentioned conditions. Verify production date on each roll. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Refer to Material Safety Data Sheets.

QuickSeam FormFlash

1. Description

QuickSeam FormFlash consists of a 229 mm (9") uncured FormFlash factory laminated to QuickSeam Tape. The strip is designed to flash inside and outside corners, pipes, penetrations and other applications as specified in the Firestone specifications and details.

2. Preparation

The RubberGard EPDM surfaces and/or mating surfaces must be prepared with QuickPrime Plus, using a QuickScrubber or QuickScrubber Plus tool. Use of other products is not allowed. Restore the product to room temperature prior to use if exposed to temperatures below 15°C for prolonged periods.

3. Application

On cloudy days with ambient temperature below 15°C, the use of a heat gun is recommended to warm the QuickSeam FormFlash and to ensure good formability. On sunny days, pre-heating of the product is usually not necessary. QuickSeam FormFlash is to be applied as per the Firestone specifications and details.

4. Coverage

In accordance with length of detail.

5. Characteristics

Technical	EPDM Flashing	QuickSeam Tape
■ Base	EPDM	Rubber polymers
■ Colour	Black	Black
■ Solvents	None	None
■ Solids (%)	100	100
■ State	Uncured	Cured
■ Thickness (mm)	1.6	0.6
■ Width (mm)	229	235

6. Packaging / Storage / Shelf Life

Packaging: 15.2 m (50') rolls, 2 rolls per carton
Note: QuickScrubber and/or QuickScrubber Plus pads and handles are included in each carton. Quantities vary depending on the QuickSeam product.
Storage: Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application.
Shelf Life: 12 months, when stored in above-mentioned conditions. Verify production date on each roll. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Refer to Material Safety Data Sheets.

QuickSeam Pipe Flashing

1. Description

Firestone's QuickSeam Pipe Flashing is specifically designed to be used for flashing of rigid round penetrations of 25 mm to 175 mm. It is a pre-fabricated pipe boot with a self adhesive tape laminated to the bottom of the flange of the boot. Each QuickSeam Pipe Flashing will fit various penetrations and shall be cut at correct pipe diameter before installation.

2. Preparation

Penetration must be clean of prior flashing and foreign materials. The RubberGard EPDM surface must be prepared with QuickPrime Plus, using a QuickScrubber or QuickScrubber Plus tool. Use of other products is not allowed.

3. Application

Cut along the top edge of the ring on the QuickSeam Pipe Flashing corresponding to the size of the pipe. Install the pipe flashing, clamping ring and Lap Sealant per Firestone specifications and details.

4. Coverage

1 piece per penetration.

5. Characteristics

Technical	Moulded Pipe Flashing	QuickSeam Tape
■ Base	Moulded EPDM	Rubber polymers
■ Colour	Black	Black
■ State	Cured	Cured
■ Thickness (mm)	1.4 - 1.9	0.76
■ Flange diameter (mm)	330	

The QuickSeam Pipe Flashing fits the following penetration outside diameters:

- 25 mm - 35 mm
- 41 mm - 48 mm
- 51 mm - 67 mm
- 70 mm - 92 mm
- 102 mm - 114 mm
- 127 mm - 141 mm
- 152 mm - 175 mm

6. Packaging / Storage / Shelf Life

Packaging: 10 pieces per carton. Stainless steel - worm gear type clamps are included.
Storage: Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application.
Shelf Life: 12 months, when stored in above-mentioned conditions. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Refer to Material Safety Data Sheets.

QuickSeam Conduit Flashing

1. Description

Firestone's QuickSeam Conduit Flashing is specifically designed to be used for flashing of rigid round penetrations and conduits from 13 mm to 64 mm. It is a pre-fabricated pipe boot with a self-adhesive tape laminated to the bottom of the flange of the boot. Each Conduit Flashing will fit various penetrations and shall be cut at correct pipe diameter before installation.

2. Preparation

Penetration must be clean of prior flashing and foreign materials. The RubberGard EPDM surface must be prepared with QuickPrime Plus, using a QuickScrubber or QuickScrubber Plus tool. Use of other products is not allowed.

3. Application

Cut along the top edge of the ring on the QuickSeam Conduit Flashing corresponding to the size of the pipe. Install the conduit flashing, clamping ring and Lap Sealant per Firestone specifications and details.

4. Coverage

1 piece per penetration.

5. Characteristics

Technical	Moulded Pipe Flashing	QuickSeam Tape
Base	Moulded EPDM	Rubber polymers
Colour	Black	Black
State	Cured	Cured
Thickness (mm)	1.4 - 1.9	0.76
Flange diameter (mm)	229	

The QuickSeam Conduit Flashing fits the following penetration outside diameters:

- 13 mm
- 19 mm
- 25 mm
- 32 mm
- 37 mm
- 45 mm
- 51 mm
- 57 mm
- 64 mm

6. Packaging / Storage / Shelf Life

Packaging: 10 pieces per carton. Stainless steel - worm gear type clamps are included.
Storage: Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application.
Shelf Life: 12 months, when stored in above-mentioned conditions. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Refer to Material Safety Data Sheets.

QuickSeam Walkway Pad

1. Description

Firestone QuickSeam Walkway Pads are high quality rubber pads with QuickSeam Tape factory laminated to the bottom (2 rows of 178 mm (7") tape or 3 rows of 76 mm (3") tape) and are used for protection of the EPDM membrane in areas of regular roof traffic (periodical maintenance around mechanical equipment, access doors, etc.).

2. Preparation

The RubberGard EPDM surface must be prepared with QuickPrime Plus, using a QuickScrubber or QuickScrubber Plus tool. Use of other products is not allowed.

3. Application

Position the QuickSeam Walkway Pads so that the flat surface is over the completed RubberGard membrane, spacing each pad a minimum of 25 mm and a maximum of 152 mm from each other to allow for drainage. Refer to Firestone's installation instructions for additional information.

4. Coverage

In accordance with length of detail.

5. Characteristics

Technical	Walkway Pad	Tape
■ Base	Rubber polymers	Rubber polymers
■ Colour	Black	Black
■ Solids (%)	100	100
■ State	Cured	Cured
■ Thickness (mm)	7.6	0.76
■ Brittleness temperature (°C)	-40	-

6. Packaging / Storage / Shelf Life

Packaging: Size 762 x 762 mm. Bundled 50 pieces/pack
Storage: Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application.
Shelf Life: 12 months, when stored in above-mentioned conditions. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Refer to Material Safety Data Sheets.

Lap Sealant (LS-3029A1)

1. Description

Firestone Lap Sealant is designed to seal and mechanically protect the exposed edge of all field-fabricated splices where Splice Adhesive is used or where QuickSeam Products have been cut. Lap Sealant is also used as a sealant in other applications as specified by current Firestone specifications and details.

2. Preparation

Surfaces on which Lap Sealant is to be applied must be clean, dry, and free from loose and foreign materials, oil and grease. The surfaces that are to be sealed must be cleaned with QuickPrime Plus. Wait minimum 4 hours between splicing and application of Lap Sealant. Under bad weather conditions, Lap Sealant must be applied before the end of the working day. Restore to room temperature prior to use, if exposed to lower temperatures (< 15° C) for a prolonged period.

3. Application

The sealant is applied with a mastic gun at the specified location and feathered with the tool supplied by Firestone. Take care to leave a mound of Lap Sealant directly over the splice edge. Lap Sealant may also be applied using the plastic nozzle applicator supplied by Firestone, being sure to keep the nozzle applicator centred over the lap step-off.

4. Coverage

Coverage rate of 6 to 7 lm per tube.

5. Characteristics

Technical	Base	EPDM
	Colour	Black
	Solvents	Light aliphatic solvent
	Solids (%)	50
	Viscosity (cp)	900,000 - 1,300,000
	Specific gravity	1.12
	Flash point (°C)	11

6. Packaging / Storage / Shelf Life

Packaging: 25 tubes/carton
Storage: Dry and clean. Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application.
Shelf Life: 12 months, when stored in above-mentioned conditions. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Flammable. Keep away from sources of ignition. Do not smoke when using. For professional use only. Use only in well ventilated areas. Avoid contact with skin and eyes. Refer to Material Safety Data Sheets. Keep out of the reach of children. Recommended cleaner is rubbing alcohol followed by soap and water.

Water Block Seal (S-20)

1. Description

Firestone Water Block Seal is designed to provide a watertight seal when used in compression as specified in drains, scuppers, wall terminations and other system details.

2. Preparation

Surfaces on which Water Block Seal is to be applied must be clean, dry and free from loose parts of concrete, stone, mortar, foreign materials, and other contaminants. Restore to room temperature prior to use, if exposed to lower temperatures (< 15° C) for a prolonged period.

3. Application

The Sealant is applied with a mastic gun at the specified location and put under a continuous compression.

4. Coverage

3 lm per tube or 2 drains per tube. Thinning is not allowed.

5. Characteristics

Technical	Base	Butyl rubber
	Colour	Grey
	Solvents	Heptane
	Solids	86%
	Viscosity (26°C) (cp)	1.600.000 +/- 300.000
	Specific gravity	1.33
	Flash point (° C)	-10

6. Packaging / Storage / Shelf Life

Packaging: 25 tubes/carton
Storage: Dry and clean. Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application.
Shelf Life: 12 months, when stored in above-mentioned conditions. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Flammable. Keep away from sources of ignition. Do not smoke when using. For professional use only. Use only in well ventilated areas. Avoid contact with skin and eyes. Refer to Material Safety Data Sheets. Keep out of the reach of children. Recommended cleaners are mineral spirits, naphtha or kerosene.

Pourable Sealer S-10 (Parts A and B)

1. Description

Firestone Pourable Sealer is a two component sealer designed to create a watertight seal around small pipe penetrations, clusters of pipes, I-beams etc. in a penetration pocket detail.

2. Preparation

Surfaces on which Pourable Sealer is to be applied must be clean, dry, and free from loose and foreign materials, oil, grease, water and other contaminants. Restore Pourable Sealer to room temperature prior to use, if exposed to lower temperatures (< 15°C) for a prolonged period.

3. Application

After preparation of the penetration pocket per Firestone details, pour Part B into Part A and mix thoroughly using a drill with a mixing blade. Mix until the Part A material is uniformly black in colour. If material contains grey streaks, then mixing should continue. Mix so that the material on the bottom and sides of the can is fully circulated and mixed. Carefully pour the thoroughly mixed Pourable Sealer into the penetration pocket. Fill penetration pocket so as to allow shedding of water from the actual penetration.

4. Coverage

Use 1 mixture of part A and part B to fill up a volume of 3375 cm^3 (e.g. 1 time 15 x 15 x 15 cm^3 or 3 times 15 x 15 x 5 cm^3). Minimum thickness applied is 50 mm. Thinning is not allowed.

5. Characteristics

Technical	Base	Polyurethane
	Colour	Black (mixed) / Part A : Light grey / Part B : Black
	Solvents	None
	Solids (%)	100
	Viscosity (cp)	Part A : 250,000 - 325,000 / Part B : Thin, free flowing
	Specific gravity	Part A : 1.25 / Part B : 1.14
	Flash point (°C)	Part A : 185 / Part B : 218
	Pot life	Max. 30 minutes - mixed at 22°C

6. Packaging / Storage / Shelf Life

Packaging: 4 x 1 gallon/carton
Storage: Cool and dry. Store in original unopened containers at temperatures between 15°C and 25°C. Keep the material out of direct sunlight until ready for application.
Shelf Life: 12 months, when stored in above-mentioned conditions. Shelf life will be reduced if exposed to higher temperatures.

7. Precautions

Keep away from fire and open flame during storage and use. Do not smoke when using. For professional use only. Use only in well ventilated areas. Avoid contact with skin and eyes. Pourable Sealer is extremely difficult to remove. Disposable gloves are recommended when mixing and dispensing Pourable Sealer. Eye protection must be worn during mixing and installation. Refer to Material Safety Data Sheets. Avoid moisture contamination. Contact with water can generate explosive pressure in a closed container. Recommended cleaners are mineral spirits, naphtha or kerosene.

All Purpose Fastener

1. Description

Firestone All Purpose Fasteners are specifically designed for mechanical attachment of the RubberGard EPDM membrane, roofing insulation (using acceptable insulation fastening plates) or accessories such as batten strips, termination bars, etc. to steel, plywood and timber decks.

2. Preparation

Substrate must be sound and dry. For some substrates Firestone will require a pullout test prior to installation. Refer to the chapter of design criteria for additional information.

3. Application

Threads must engage the decking material per Firestone specifications. Install fasteners with low speed hammer drill. Use # 3 hardened Phillips bit to drive fasteners. Do not over- or under-drive fasteners. Fasteners should typically penetrate through steel decks a minimum of 15 mm; into or through wooden decks a minimum of 25 mm.

4. Coverage

The quantity of fasteners should be in compliance with wind design requirements.

5. Characteristics

Technical	■ Material	SAE 1022, Heat treated steel
	■ Colour	Red or white
	■ Thread size (mm)	6.0
	■ Threads/inch	13
	■ Head	# 3 Phillips Drive
	■ Typical pullout	1800 N in 0.75 steel deck 1800 N in 19 mm Plywood deck
	■ Corrosion	Electro deposition (E-coat)

6. Packaging / Storage / Shelf Life

Screw Length (mm)	Screw Length (")	Thread Length (mm)	Pieces/pail
32	1 1/4	Full	1000
41	1 5/8	Full	1000
57	2 1/4	Full	1000
73	2 7/8	Full	1000
83	3 1/4	76	1000
95	3 3/4	76	1000
114	4 1/2	76	1000
127	5	102	1000
152	6	102	1000
178	7	102	500
203	8	102	500

Storage: Dry and clean.
Shelf Life: Unlimited, if stored properly.

7. Precautions

Eye protection is recommended during installation.

Heavy Duty Fastener

1. Description

Firestone Heavy Duty Fasteners are specially designed to be used in roofing applications that require outstanding system performance. The fastener is used for mechanical attachment of the RubberGard EPDM membrane, roofing insulation (utilizing acceptable insulation fastening plates) and accessories to steel, wood, concrete and other decks where approved by Firestone technical specifications.

2. Preparation

Substrate must be sound and dry. For some substrates Firestone will require a pullout test prior to installation. Refer to the chapter of design criteria for additional information.

3. Application

Threads must engage the decking material. Install fasteners with low speed hammer drill. Use # 3 hardened Phillips bit to drive fasteners. If pre-drilling of the deck substrate is necessary, use a hammer-drill in impact mode with a 5.56 mm carbide drill bit. Do not over- or under-drive fasteners. Fasteners should typically penetrate through steel decks a minimum of 19 mm, into or through wooden decks or into concrete decks a minimum of 25 mm.

4. Coverage

The quantity of fasteners should be in compliance with design requirements.

5. Characteristics

Technical	■ Material	SAE 1022, Heat treated steel
	■ Colour	Red or white
	■ Thread size (mm)	6.6
	■ Threads/inch	13
	■ Head	# 3 Phillips Drive
	■ Typical pullout	2600 N in 0,75 mm steel deck, 3100 N in new structural concrete decks,1600 N in 12 mm Plywood deck
	■ Corrosion	Base coat grey epoxy (electro-deposition) with two coats acrylic

6. Packaging / Storage / Shelf Life

Screw Length (mm)	Screw Length (")	Thread Length (mm)	Pieces/pail
32	1 1/4	Full	1000
51	2	Full	1000
76	3	Full	1000
102	4	76	1000
127	5	102	1000
152	6	102	500
178	7	102	500
203	8	102	500
254	10	102	500*
305	12	102	500*
356	14	102	500*

** Packaged in cardboard boxes due to fastener length.*

Storage: Dry and clean.
Shelf Life: Unlimited, if stored properly.

7. Precautions

Eye protection is recommended during installation.

V-Plate

1. Description

The Firestone V-Plate is specifically designed to be used with Firestone All-Purpose, Heavy-Duty and Concrete Drive fasteners to attach Firestone RubberGard MAX (Reinforced) membrane, Firestone QuickSeam RPF strip and Firestone QuickSeam R.M.A. Strip as shown in Firestone specifications and details.

2. Preparation

Firestone V-Plate can only be used to fasten reinforced membranes/accessories. They are not to be used for insulation attachment or attachment of non-reinforced membrane.

3. Application

Layout the V-plates as specified in the installation instructions and attach them to the substrate using the appropriate Firestone fastener.

4. Coverage

In compliance with the requirements.

5. Characteristics

Technical	■ Material	CQ grade steel with AZ 55 Galvalume® coating
	■ Diameter (mm)	57
	■ Thickness (mm)	0.84/0.99
	■ Pull-Through resistance	1774 N from centre hole

6. Packaging / Storage / Shelf Life

Packaging: 500 plates/pail.
Storage: Store in original unopened container protected from the weather.
Shelf Life: Unlimited, if properly stored.

Metal Batten Strip

1. Description

Firestone Metal Batten Strip is designed for mechanical attachment of the RubberGard EPDM roofing membrane and flashing details as specified in Firestone specifications and details.

2. Preparation

When site cutting of the Metal Batten Strip is necessary, all cut surfaces must be rounded and filed to remove burrs and sharp edges.

3. Application

Layout the Metal Batten Strips as specified and attach them to the substrate using the appropriate Firestone fastener. To avoid buckling of the strip, start at one end of the batten strip and fasten towards the other. Do not overdrive or underdrive the fastener.

4. Coverage

In compliance with the requirements. Adjoining strips need to overlap and are to be fastened with a single fastener.

5. Characteristics

Technical	■ Material	Galvalume® AZ 55
	■ Length (m)	3.05
	■ Width (mm)	25.4
	■ Thickness (mm)	1.13/1.29
	■ Holes (mm)	diameter 8.74 mm - 152 mm o.c.

6. Packaging / Storage / Shelf Life

Packaging: 50 pieces (3.05 m)/cardboard tube (152.4 m).
Storage: Store in original unopened container protected from the weather.
Shelf Life: Unlimited, if properly stored.

Coiled Metal Batten Strip

1. Description

Firestone Coiled Metal Batten Strip is designed for mechanical attachment of the RubberGard EPDM roofing membrane and flashing details as specified in Firestone specifications and details.

2. Preparation

When site cutting of the Coiled Metal Batten Strip is necessary, all cut surfaces must be rounded and filed to remove burrs and sharp edges.

3. Application

Unroll Coiled Metal Batten Strip in a straight line by anchoring one end and pulling out 10 lm and anchoring again. Set the fastener head flush with the strip. Use the longest lengths practical. Do not overdrive or underdrive fasteners.

4. Coverage

In compliance with the requirements. Adjoining strips need to overlap and are to be fastened with a single fastener.

5. Characteristics

Technical	Material	Galvalume® AZ 55
	Length (m)	67 m per coil
	Width (mm)	25.4
	Thickness (mm)	1.13/1.29
	Holes (mm)	diameter 8.74 mm - 76 mm o.c.
	Weight (kg)	14.5 kg per coil

6. Packaging / Storage / Shelf Life

Packaging: 67 lin.m. per coil in a weather-resistant cardboard dispensing package.
Storage: Store in original unopened container protected from the weather.
Shelf Life: Unlimited, if properly stored.

Polymer Batten Strip

1. Description

Firestone Polymer Batten Strip is designed for mechanical attachment of the RubberGard EPDM roofing membrane and flashings over steel, plywood and timber decks.

2. Preparation

When site cutting of the strip is necessary, all cut surfaces must be rounded to remove sharp edges.

3. Application

Unroll Polymer Batten Strip in a straight line by anchoring one end and pulling out 10 lm and anchoring again. Set the fastener head flush with the bar. Overdriving results in bowing of the Polymer Batten Strip. The Polymer Batten Strip should show only a slight depression around the fastener head. Fastener placement may be varied if obstructions are encountered. Unscrew fasteners carefully so as not to damage the Polymer Batten Strip. Place the next fastener at least 50 mm from the fastener hole that hit the obstruction. Drive through the centre of the bar as required. Use the longest lengths practical. Overlap ends 25 mm and drive fasteners through. Do not use hammer plugs with this system.

4. Coverage

In compliance with the requirements.

5. Characteristics

Technical	■ Material	Proprietary Oriented Polymer (Plastic)
	■ Length (m)	76.2 (coil)
	■ Width (mm)	25.4
	■ Thickness (mm)	1.3
	■ Holes (mm)	Ø 4.6 (102 mm o.c.)

6. Packaging / Storage / Shelf Life

Packaging: 76.2 m coil per carton.
Storage: Store in original unopened container protected from the weather.
Shelf Life: Unlimited, if properly stored.

Termination Bar

1. Description

Firestone Termination Bar is designed for termination of the RubberGard EPDM membrane against smooth walls in all Firestone Systems.

2. Preparation

Substrate must be sound, smooth, dry and free from dust, dirt, oil and other contaminants prior to installation. Wall areas above Termination Bar must be waterproof.
When site cutting is necessary, remove any burrs from the bar and clean up shavings, etc. that may occur from cutting.

3. Application

Install Firestone Water Block Seal behind top of flashing. Anchor the Termination Bar through the pre-punched holes with an acceptable fastener at a rate to maintain a good, tight compression to the wall against Water Block Seal. Remove excess flashing material above the bar and install Lap Sealant into the channel. Consult Firestone specifications and details for specifics.

4. Coverage

In accordance with the length of the detail.

5. Characteristics

Technical	■ Material	Corrosion-resistant aluminium
	■ Length (m)	3.05
	■ Width (mm)	27.4
	■ Thickness (mm)	2.2
	■ Holes (mm)	7.1 x 9.9 slotted holes @ 100 mm o.c.

6. Packaging / Storage / Shelf Life

Packaging: 50 pieces/carton (152.4 m).
Storage: Store in original unopened container protected from the weather.
Shelf Life: Unlimited, if properly stored.

Aluminium Drain Bar

1. Description

Firestone Drain Bar is specifically designed for termination of the RubberGard EPDM membrane at the edge of the roof as illustrated in Firestone Inverted, Ballasted and Fully Adhered Systems.

2. Preparation

Substrate must be sound, dry and appropriate for mechanical attachment. When modifying the bar, all cut surfaces must be rounded and filed to remove burrs and sharp edges.

3. Application

Anchor the bar through the pre-punched holes into the substrate with the fasteners provided. A 6 mm space should be provided between adjoining sections of Drain Bars. Cut the bar at inside and outside corners. Bars must be fastened at maximum 25 mm from each end of all sections.

4. Coverage

In accordance with the length of the detail.

5. Characteristics

Technical	■ Material	Extruded Aluminium
	■ Length (m)	3.05
	■ Height (mm)	Approximately 102
	■ Thickness (mm)	Varies 1.6 to 2.8
	■ Holes (mm)	20 holes - Ø 7.1 @ 152 mm o.c.
	■ Fasteners	38.1 mm stainless steel hex head with rubber washer

6. Packaging / Storage / Shelf Life

Packaging: 10 pieces/carton including fasteners and washers.
Storage: Store in original unopened container protected from the weather.
Shelf Life: Unlimited, if properly stored.

AcryliTop PC-100

1. Description

AcryliTop PC-100 is an aesthetic coating that can be applied over all RubberGard membranes whether new or existing.

2. Preparation

The RubberGard EPDM membrane surfaces must be clean, dry and free of foreign material and contaminants prior to the application of AcryliTop PC-100. After loose debris is removed from the roof, clean the roof using a suitable cleaning agent.

3. Application

AcryliTop PC-100 may be roller or spray applied.

A roller application requires the use of both Firestone AcryliTop PC-100 Base Coat and an AcryliTop PC-100 as a top coat. Refer to the Technical Information sheet for AcryliTop Base Coat for additional information. Apply AcryliTop PC-100 Base Coat (light grey) at a coverage rate of 20 m^2 per gallon. After the Base Coat has dried and if possible during the same day, apply AcryliTop PC-100 at a coverage rate of 20 m^2 per gallon. Allow the AcryliTop PC-100 to be dry to the touch before traffic is allowed on the surface. Dry time is approximately 24 hours depending on the ambient air conditions. Inspect the application to assure that complete coverage of the base coat is achieved. Apply additional AcryliTop PC-100 to areas where necessary to assure complete coverage of the base coat.

In a spray application, the AcryliTop PC-100 coating is applied in a one-coat application to achieve a coverage rate of approximately 10 m^2 per gallon. Contact Firestone Building Products Technical Services for additional information on spraying equipment.

4. Coverage

Thinning is not allowed. Coverage rate is 10 m^2 per gallon, one-coat application when spray applied. When roller applied, coverage rate is 20 m^2 per gallon for the base coat and another 20 m^2 per gallon for the top coat.

5. Characteristics

Technical	■ Base	Acrylic
	■ Colour	White, Grey and Tan
	■ Solvents	Water and Texanol
	■ Solids (%)	66 to 67 by weight
	■ Viscosity (cp)	95 ± K.U (ASTM D562)
	■ Specific gravity	1.42 ± 0.14
	■ Freeze point (°C)	0

6. Packaging / Storage / Shelf Life

Packaging: 5 gallon - pail (18.9 litre).
Storage: Store in original unopened containers at temperatures between 15°C and 25°C. Do not allow AcryliTop PC-100 Coating to freeze. An indication that the coating has frozen is a "cottage-cheese" consistency of the PC-100 Coating. If this occurs, do not use the coating.
Shelf Life: 9 months, when stored in above-mentioned conditions. Verify production date on each pail.

7. Precautions

Do not apply when inclement weather is expected or when ambient air temperatures will be below 7°C within a 24-hour period after application. Do not expose to temperatures above 38°C or below 0°C. It is recommended that periodic inspections of the roof system be conducted by the owner, with the subsequent re-application of AcryliTop PC-100 to areas that may need touch-ups. Refer to Material Safety Data Sheets. Recommended cleaner is water.

AcryliTop PC-100 Base Coat

1. Description

AcryliTop PC-100 Base Coat is a light grey acrylic coating. It is used as the first coat when the AcryliTop PC -100 is installed with a roller.

2. Preparation

The RubberGard EPDM membrane surfaces must be clean, dry and free of foreign material and contaminants prior to the application of AcryliTop PC-100. After loose debris is removed from the roof, clean the roof using a suitable cleaning agent.

3. Application

AcryliTop PC-100 Base Coat is typically roller applied. Apply AcryliTop PC-100 Base Coat (light grey) at a coverage rate of 20m^2 per gallon. Allow the AcryliTop PC-100 to be dry to the touch before traffic is allowed on the surface. Dry time is approximately 24 hours depending on the ambient air conditions. Inspect the application to assure that complete coverage of the membrane is achieved. Apply additional AcryliTop PC-100 Base Coat to areas where necessary to assure complete coverage of the membrane.

4. Coverage

Thinning is not allowed. Coverage rate is 20 m^2 per gallon for the base coat.

5. Characteristics

Technical	■ Base	Acrylic
	■ Colour	Light grey
	■ Solvents	Water and Texanol
	■ Solids (%)	66 to 67 by weight
	■ Viscosity (cp)	95 ± K.U (ASTM D562)
	■ Specific gravity	1.42 ± 0.14
	■ Freeze point (°C)	0

6. Packaging / Storage / Shelf Life

Packaging: 5 gallon - pail (18.9 litre).
Storage: Store in original unopened containers at temperatures between 15°C and 25°C. Do not allow AcryliTop PC-100 Base Coat to freeze. An indication that the coating has frozen is a "cottage-cheese" consistency of the PC-100 Base Coat. If this occurs, do not use the coating.
Shelf Life: 9 months, when stored in above-mentioned conditions. Verify production date on each pail.

7. Precautions

Do not apply when inclement weather is expected or when ambient air temperatures will be below 7°C within a 24-hour period after application. Do not expose to temperatures above 38°C or below 0°C. Refer to Material Safety Data Sheets. Recommended cleaner is water.