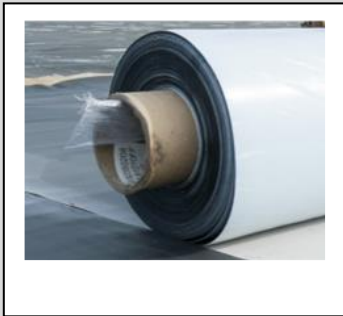


# Technical Information Sheet



## FullForce™ EPDM

Item Description	Item Number
.060" x 9' 10.5" x 101' 3.6" (1.5 mm x 3 m x 30.9 m)	W56L61010FF
.060" x 9' 10.5" x 50' 7.6" (1.5 mm x 3 m x 15.4 m)	W56L61005FF

### Description

FullForce EPDM membrane with Secure Bond™ Technology is the next generation of self-adhered roof system application. Secure Bond Adhesive is factory applied which ensures uniform adhesion across the entire membrane, even through the seam, creating a powerful bond with the substrate and overlapping seam area. This advanced technology not only improves installation speed over traditional fully adhered applications, but also widens the installation window with the ability to be installed from 20 °F (-7 °C) to 120 °F (49 °C). With no VOCs emitted during field membrane application, FullForce EPDM with Secure Bond Technology is a reliable solution for all your fully adhered roofing needs.

### Product Preparation

Approved substrates to receive FullForce EPDM membrane must be clean, dry, and free of foreign material such as grease and any debris which could inhibit adhesion. This may require cleaning with a broom or blower. An acceptable Elevate Primer is required to prepare surfaces for seaming, detailing, sealant application and vertical flashings, but no bonding adhesives are required for field membrane attachment.

### Method of Application

1. Prepare substrate and secure insulation per current Elevate technical specifications.
2. Install FullForce EPDM membrane only when membrane, substrate and ambient temperatures exceed 20 °F (-7 °C) and rising. Do not install FullForce EPDM membrane below this minimum temperature.
3. Unroll and position the membrane over the substrate to achieve the specified alignment and seam overlaps. Allow the membrane to relax a minimum of 30 minutes before final positioning and adhering.
4. Position adjoining sheets in shingle fashion or so that seams run parallel to the flow of water, and that all side and end laps provide a minimum 3" (76.2 mm) overlap.
5. Apply an acceptable Elevate Primer (QuickPrime™ Plus, QuickPrime Plus LVOC, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer) to all EPDM lap surface areas to receive FullForce EPDM.
6. All membrane and flashing splices require the application of seam edge treatment using FullForce Sealant.
7. Apply an acceptable Elevate Primer (as noted above) on all vertical substrates to receive FullForce EPDM membrane.
8. Refer to the FullForce EPDM Application Guide and associated Technical Information Sheets for additional installation information.

## Storage

- Warehouse membrane in a clean dry location.
- FullForce EPDM membrane stored on jobsite must be kept dry.
- FullForce EPDM membrane must be a minimum of 20 °F (-7 °C) prior to installation.
- Store away from sources of punctures and physical damage.
- Make certain the structural decking will support the loads incurred by material when stored on rooftop. The deck load limitations should be specified by the project designer.
- Store away from ignition sources.

## Shelf Life

18 Months when stored between 60 °F (16 °C) and 80 °F (27 °C) out of direct sunlight.

## Precautions

- Take care when moving, transporting, and handling to avoid sources of punctures and physical damage.
- Removal of the polymeric release liner from the adhesive backing may create a static electric charge; care should be used when removing and handling the release liner.
- Refer to Safety Data Sheets (SDS) for additional safety information.

## LEED® Information

Post-Consumer Recycled Content: 0%  
 Post Industrial Recycled Content: 3-5%  
 Manufacturing Location: Tuscumbia, AL



NOTE: LEED® is a registered trademark of the U.S. Green Building Council

Acceptable Substrates		
Substrate	Primer Required	Special Application Considerations
ISO 95+™ GL / ISOGARD™ GL	No	
ISOGARD HD	No	Broom only; do not roll in place with weighted roller
RESISTA™ / ISOGARD CG	No	Broom only; do not roll in place with weighted roller
Structural Concrete	No	Must be clean, dry, and properly cured prior to application
Lightweight Concrete	No	Use on clean, dry, and properly cured cellular lightweight concrete only. Not acceptable with lightweight aggregate concrete
DensDeck®*	No	
DensDeck Prime	No	
Securock®**	No	
Plywood	No	Check local code for acceptance of direct application
OSB Board	No	Check local code for acceptance of direct application
CMU / Masonry	No	Must be clean & dry prior to application.
Vertical Substrates	Yes	Apply an acceptable Elevate primer to vertical substrates.

\*DensDeck is a trademark of the G-P Gypsum Corporation

\*\*Securock is a registered trademark of the USG Corporation

### Typical Properties – Secure Bond Pressure Sensitive Adhesive

Property	Test Method	Performance Minimum	Typical Values
Color	---	---	Clear
Nominal Thickness	ASTM E 408-71	---	0.007" (0.178 mm)
Weight	---	---	0.040 lb/ft <sup>2</sup> (0.002 kg/m <sup>2</sup> )

### Typical Properties (Meets or exceeds ASTM D 4637, Type 1)

Properties	Test Method	Performance Minimum	Typical Values
Thickness, minimum	D 412	0.060" +.009"/-.006" (1.524 +.229/-.152 mm)	0.060" +.009"/-.006" (1.524 +.229/-.152 mm)
Tensile Strength, min.	D 412 (Die C)	1305 psi (9.0 MPa)	1450 psi (10.0 MPa)
Dynamic Puncture Resistance	D 5635 / D 5635M	pass	pass
Static Puncture Resistance	D 5602 / D 5602M	pass	pass
Elongation, Ultimate, min.	D 412 (Die C)	300%	475%
Tensile set, max.	D 412, Method A (Die C)	10%	2%
Tear Resistance, min.	D 624 (Die C)	150 lbf/in (26.27 kN/m)	195 lbf/in (34.1 kN/m)
Brittleness point, max.	D 2137	-49 °F (-45 °C)	-49 °F (-45 °C)
Ozone resistance, no cracks	D 1149	pass	pass
Heat Aging:	D 573		
Tensile Strength, min.	D 412 (Die C)	1205 psi (8.3 MPa)	1490 psi (10.3 MPa)
Elongation, ultimate, min.	D 412	200%	320%
Tear resistance, min.	D 624	125 lbf/in (21.9 kN/m)	179 lbf/in (31.3 kN/m)
Linear dimensional change, max.	D 1204	±1.0%	-0.3%
Water absorption, max., mass	D 471	+8%, -2%	+1.5
Factory Seam Strength, min.	D 816 Method B (modified)	50 lbf/in (8.8 kN/m) or Sheet Failure	Sheet Failure
Weather Resistance:			
Visual inspection	G 151 / D 518	No cracks or crazing	Pass
PRFSE, min.	G 151 / D 518	30	53
Elongation, ultimate, min.	G 155 / D 412 (Die C)	200	255
Air Permeance (Material)	E 2178*	<0.004 cfm/ft <sup>2</sup> @ 1.57 lb/ft <sup>2</sup> (0.02 L/(s · m <sup>2</sup> ) @ 75 Pa)	Pass

- \*The ASTM E2178 value listed above is for the air permeance of the RubberGard EPDM Membrane component only.
- When system design includes an air barrier, please consult your Regional Technical Coordinator for additional roof system securement enhancements.
- Consult the Designer / Architect, Code Agency or Authority having Jurisdiction (AHJ) for requirements regarding the selection and use of an appropriate air barrier material, and its installation into the building envelope.

Please contact Holcim Technical Services at 800-428-4511 for further information.

This sheet is meant to highlight Elevate products and specifications and is subject to change without notice. Holcim takes responsibility for furnishing quality materials that meet published Elevate product specifications or other technical documents, subject to normal manufacturing tolerances. Neither Holcim nor its representatives practice architecture. Holcim offers no opinion on and expressly refuses any responsibility for the soundness of any structure. Holcim accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Holcim representative is authorized to vary this disclaimer.

Firestone, the brand of premier roofing, wall, and lining systems you know and trust, will be coming to you under a new name: Elevate. During our transition, products carrying the brand name **Firestone** will change to **Elevate** on product labels and packaging, Technical Information Sheets, and elsewhere. Only the brand name is changing. Our products remain the same.

For further information on our brand transition to Elevate, scan the code below with your smartphone, or visit our website: [www.holcimelevate.com](http://www.holcimelevate.com)

