

Product Evaluation

RC648 | 0522

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: RC-648

Effective Date: May 1, 2022

Re-evaluation Date: April 2025

Product Name: Polyglass Modified Bitumen Roofing Systems Installed Over LWC Decks

Manufacturer: Polyglass USA, Inc.
1111 W. Newport Center Drive
Deerfield Beach, FL 33442
(954) 233-1230

Mule-Hide Products, Inc.
1195 Prince Hall Dr.
Beloit, WI 53511

General Description:

- **Polyglass G2 Base** is an asphaltic, fiberglass reinforced base sheet with a sanded top surface.
- **Elastobase P** is a modified bitumen, polyester reinforced base sheet that may be used in hot asphalt, cold adhesive, mechanically fastened or self-adhered applications.
- **Elastobase V** is a modified bitumen coated fiberglass reinforced base sheet.
- **Elastoshield VP HT** is a modified bitumen coated fiberglass reinforced base sheet.
- **Modibase** is a modified bitumen, fiberglass reinforced base sheet.
- **Ply IV** is a modified bitumen coated heavyweight fiberglass reinforced ply sheet.
- **Ply VI** is a modified bitumen coated heavyweight fiberglass reinforced ply sheet.

- **Polybase V** is a torch applied, fiberglass reinforced, APP modified bitumen membrane with poly-film top and bottom surfaces.
- **Elastoflex SA V** is a nominal 60-mil (1.5-mm) thick, self-adhering, fiberglass reinforced modified bitumen membrane with a smooth top surface.
- **Elastoflex SA V FR** is a nominal 60-mil (1.5-mm) thick, self-adhering, fiberglass reinforced modified bitumen membrane with a smooth top surface and fire-retardant chemistry
- **Elastoflex SA V PLUS** is a nominal 80-mil (2.0-mm) thick, self-adhering, fiberglass reinforced modified bitumen membranes with a smooth top surface.
- **Elastoflex SA V PLUS FR** is a nominal 80-mil (2.0-mm) thick, self-adhering, fiberglass reinforced modified bitumen membrane with a smooth top surface and fire-retardant chemistry.
- **Elastoflex SA P** is a self-adhering, polyester reinforced modified bitumen membrane with a granule top surface.
- **Elastoflex SA P FR** is a self-adhering, polyester reinforced modified bitumen membranes with a granule top surface and fire-retardant chemistry.
- **Polyreflect** is a self-adhering, polymer, SBS modified bitumen membrane with a self-adhering back face and a smooth top surface.
- **Elastoflex S6** is a torch, hot asphalt, or cold adhesive applied polyester reinforced, modified bitumen membranes with a polyethylene or sanded top surface.
- **Elastoflex S6 HP** is a torch, hot asphalt, or cold adhesive applied polyester reinforced, modified bitumen membranes with a polyethylene or sanded top surface.
- **Elastoflex S6 G** is a torch, hot asphalt, or cold adhesive applied polyester reinforced, modified bitumen membrane with a granule top surface.
- **Elastoflex S6 G FR** is a torch, hot asphalt, or cold adhesive applied polyester reinforced, modified bitumen membranes with a granule top surface and fire-retardant chemistry.
- **Elastoflex V** is a torch, hot asphalt, or cold adhesive applied fiberglass reinforced, modified bitumen membrane with a sanded top surface.
- **Elastoflex V 22** is a torch, hot asphalt, or cold adhesive applied fiberglass reinforced, modified bitumen membrane with a sanded top surface.
- **Elastoflex V G** is a torch, hot asphalt, or cold adhesive applied fiberglass reinforced, modified bitumen membrane with a granule top surface.
- **Elastoflex V G FR** is a torch, hot asphalt, or cold adhesive applied fiberglass reinforced, modified bitumen membranes with a granule top surface and fire-retardant chemistry.
- **Elastoshield TS G** is a torch, hot asphalt, or cold adhesive applied polyester reinforced, modified bitumen membrane with a granule top surface.
- **Elastoshield TS G FR** is a torch, hot asphalt, or cold adhesive applied polyester reinforced, modified bitumen membrane with a granule top surface and fire-retardant chemistry.
- **Polybianko** is a self-adhered, polyester reinforced, modified bitumen membrane with a reflective white film laminate on the top surface.
- **Polybond** is a torch applied polyester reinforced, modified bitumen membrane with a smooth or sanded top surface.
- **Polybond G** is a torch applied polyester reinforced, modified bitumen membrane with a granule top surface.

- **Polyflex** is a torch applied polyester reinforced, modified bitumen membranes with a smooth or sanded top surface.
- **Polyflex SA Base** is a self-adhered, fiberglass reinforced, APP modified bitumen base sheet.
- **Polyflex G** is a torch applied polyester reinforced, modified bitumen membrane with a granule top surface.
- **Polyflex G FR** is a torch applied polyester reinforced, modified bitumen membranes with a granule top surface and fire-retardant chemistry.
- **Polyflex SA P** is an elastomeric, polyester reinforced membrane consisting of an APP compound on the top layer and a self-adhesive compound on the bottom layer.
- **Polyflex SA P FR** is an elastomeric, polyester reinforced membranes consisting of an APP compound on the top layer, a self-adhesive compound on the bottom layer and fire-retardant chemistry.
- **Polyfresko G APP SA** is a self-adhered, polyester reinforced, APP modified bitumen membrane with a self-adhering back face, and a reflective white granule top surface
- **Polyfresko G APP SA FR** is a self-adhered, polyester reinforced, APP modified bitumen membrane with a self-adhering back face, a reflective white granule top surface and fire-retardant chemistry.
- **Polyfresko G SBS SA** is a self-adhered, polyester reinforced, SBS modified bitumen membrane with a self-adhering back face, and a reflective white granule top surface.
- **Polyfresko G SBS SA FR** is a self-adhered, polyester reinforced, SBS modified bitumen membrane with a self-adhering back face, a reflective white granule top surface and fire-retardant chemistry.
- **Polyfresko G SBS** is a hot asphalt applied SBS modified bitumen membrane with reflective white granules on the top surface.
- **Polyfresko G SBS FR** is a hot asphalt applied SBS modified bitumen membrane with reflective white granules on the top surface and fire-retardant chemistry.
- **Polyfresko G** is a torch applied APP modified bitumen membranes with reflective white granules on the top surface.
- **Polyfresko G FR** is a torch applied APP modified bitumen membrane with reflective white granules on the top surface and fire-retardant chemistry.
- **PolyKool** is a self-adhered, polyester reinforced, modified bitumen membranes with a reflective white film laminate on the top surface.
- **Polystick TU Max** is a self-adhered, rubberized asphalt waterproofing membrane.
- **Polystick TU Plus** is a self-adhered, fiberglass reinforced, rubberized asphalt waterproofing membrane with a polyester fabric on the top surface.

Mule-Hide Products Co., Inc. Products

- **Nail Base** is an SBS modified bitumen, fiberglass reinforced base sheet with a sand finish on the bottom surface and a polyolefin film top surface.
- **SA Base Sheet** is a nominal 60-mil (1.5-mm) thick, self-adhering, fiberglass reinforced modified bitumen membrane with a smooth top surface.
- **SA Base Sheet (FR)** is a nominal 60-mil (1.5-mm) thick, self-adhering, fiberglass reinforced modified bitumen membrane with a smooth top surface and fire-retardant chemistry
- **SA-SBS Cap Sheet** is a self-adhered, polyester reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface.
- **SA-SBS Cap Sheet (FR)** is a self-adhered, polyester reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface, and fire-retardant chemistry.
- **SA-APP Cap Sheet** is a self-adhered, polyester reinforced, APP modified bitumen membrane with a self-adhering back face and a granule top surface.
- **SA-APP Cap Sheet (FR)** is a self-adhered, polyester reinforced, modified bitumen membrane with a self-adhering back face, a granule top surface, and fire-retardant chemistry.
- **SA-SBS KoolCap** is a self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface.
- **SA-SBS KoolCap (FR)** is a self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface.
- **SA-APP KoolCap** is a self-adhered, polyester reinforced, APP modified bitumen membrane with a self-adhering back face and granule top surface.
- **SA-APP KoolCap (FR)** is a self-adhered, polyester reinforced, APP modified bitumen membrane with a self-adhering back face and a granule top surface.
- **APP Torch Base Premier** is a torch applied, fiberglass reinforced, APP modified bitumen membrane with poly-film top and bottom surfaces.
- **APP Torch S Premier** is a torch applied polyester reinforced, modified bitumen membrane with a smooth or sanded top surface.
- **APP Torch G Premier** is a torch applied polyester reinforced, modified bitumen membrane with a granule top surface.
- **APP Torch G FR Premier** is a torch applied polyester reinforced, modified bitumen membranes with a granule top surface and fire-retardant chemistry.
- **APP Torch G KoolCap** is a torch applied APP modified bitumen membranes with reflective white granules on the top surface.
- **APP Torch G FR KoolCap** is a torch applied APP modified bitumen membrane with reflective white granules on the top surface and fire-retardant chemistry.

Limitations and Installation:**General installation Requirements:**

All IRC and IBC requirements must be satisfied, and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

For All applications: Roof decks, in which this product is to be installed upon, shall be provided with positive drainage. A minimum roof slope after construction of 1/4" per foot is recommended.

Prime decks were required, in accordance with requirements and recommendations of the primer and deck manufacturer (if applicable). For re-roofing and re-cover applications, prime existing roof surfaces as necessary with Polyglass PG 100 asphalt primer or an asphalt primer meeting ASTM D-41 specification and allow to dry prior to installing the Polyglass roofing system.

The following notes apply to the systems outlined herein:

1. The roof decking must meet or exceed the uplift requirements of the IRC and IBC along with applicable Texas Revisions adopted by TDI. Install as required for resistance to wind loads.
2. Roof framing members shall be spaced a maximum of 24" o.c.
3. Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application; the ribbons/beads must expand as noted in the manufacturer's published instructions.
 - Hot asphalt at 20-40 lbs./square.
 - Dow Insta Stik™ Quik Set Insulation Adhesive is continuous 3/4" to 1" wide ribbons, 12" o.c.
 - Millennium One-Step Foamable Adhesive in continuous 1/4" to 1/2" wide ribbons, 12" o.c.
 - Millennium PG-1 Pump Grade Adhesive in continuous 1/4" to 1/2" wide ribbons, 12" o.c.
 - OMG OlyBond 500 Adhesive in continuous 3/4" to 1" wide ribbons, 12" o.c. (PaceCart or SpotShot). Note: OMG OlyBond 500 Green Adhesive may be used in any system listing OMG OlyBond 500 Adhesive.
 - Polyset CR-20 in continuous 2-1/2"-3-1/2" wide ribbons, 12" o.c.
 - Note: When multiple layer(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, adhesive ribbons shall be staggered from layer-to-layer a distance of one-half the ribbon spacing.
 - Note: The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.
4. Unless otherwise noted, the insulation may be any polyisocyanurate, polystyrene, fiberboard, perlite and/or gypsum-based insulation board that meet the requirements of the IRC and the IBC.

5. Bonded polyisocyanurate insulation boards shall be maximum 4' x 4'.
6. Unless otherwise noted, all base sheets specified in this report are metric.
7. Unless otherwise noted, all insulations are flat stock or taper board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations. In no case shall these values be used to 'increase' the MDP listings in the tables; rather if MDP listing below meets or exceeds that listed for a particular system in the tables, then the thinner board listed below may be used as a drop-in for the equivalent thicker material listed in the table:
 - Insta Stik™ Quik Set Insulation Adhesive: MDP -120.0 psf (min. 1/2" thick)
 - Millennium One-Step Foamable Adhesive: MDP -157.5 psf (min. 1/2" thick)
 - Millennium PG-1 Pump Grade Adhesive: MDP -157.5 psf (min. 1/2" thick)
 - OMG OlyBond 500 or OMG OlyBond Green Adhesive Fastener: MDP -45.0 psf (min. 1/2" Multi-Max FA-3)
 - OMG OlyBond 500 or OMG OlyBond Green Adhesive Fastener: MDP -315.0 psf (min. 1/2" ENRGY 3)
 - OMG OlyBond 500 or OMG OlyBond Green Adhesive Fastener: MDP -487.5 psf (min. 1/2" AC Foam-II)
 - Polyset CR-20: MDP -117.5 psf (min. 1" thick)

8. Appendix 1

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE					
Table	Deck	Assembly No.	Application	Description	Page
1A	LWC	LWC-1 – LWC-7	New or Reroof (Tear-Off)	Bonded Insulation, Bonded Roof Cover	10-13
1B	LWC	LWC-8 – LWC-10	New, Reroof (Tear-Off) or Recover	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	13-14

9. Unless otherwise noted, refer to the following references for bonded base, ply, or cap sheet applications.

TABLE 1: POLYGLASS ROOF COVERS			
Reference	Layer	Material	Application
BP-AA (Base and Ply sheets, Asphalt-Applied)	Base	Polyglass G2 Base, Modibase	Hot asphalt at 20-40 lbs./square
	Ply	ASTM D2178, Type IV, or VI	
SBS-CA1	Base	Elastobase V (sand/sand), Elastoshield VP HT, Elastobase P, Elastoflex V, Elastoflex V 22, Elastoflex S6, Elastoflex S6 HP, Elastoshield TS	PG350 at 1.5-2.0 gal/square
	Cap	Elastoflex V, Elastoflex V 22, Elastoflex V G, Elastoflex V G FR, Elastoflex S6, Elastoflex S6 HP, Elastoflex S6 G, Elastoflex S6 G FR, Elastoshield TS, Elastoshield TS G, Elastoshield TS G FR, Polyfresko G SBS (sand-backed), Polyfresko G SBS FR (sand-backed)	
SBS-AA (SBS, Asphalt-Applied)	Base or Ply	Elastobase V (sand/sand or poly/sand), Elastoshield VP HT, Elastobase P (sand/sand or poly/sand), Elastoflex V, Elastoflex V 22, Elastoflex S6, Elastoflex S6 HP, Elastoshield TS, Elastoshield TS FR	Hot asphalt at 20-40 lbs./square
	Cap	Elastoflex V, Elastoflex V 22, Elastoflex V G, Elastoflex V G FR, Elastoflex S6, Elastoflex S6 HP, Elastoflex S6 G, Elastoflex S6 G FR, Elastoshield TS, Elastoshield TS FR, Elastoshield TS G, Elastoshield TS G FR, Polyfresko G SBS (sand-backed), Polyfresko G SBS FR (sand-backed)	
SBS-TA (SBS, Torch-Applied)	Base or Ply	Elastobase V (sand/poly or poly/poly), Elastoshield VP HT, Elastobase P, Elastoflex V, Elastoflex V 22, Elastoflex S6, Elastoflex S6 HP, Elastoshield TS, Elastoshield TS FR	Torch-Applied
	Cap	Elastoflex V, Elastoflex V 22, Elastoflex V G, Elastoflex V G FR, Elastoflex S6, Elastoflex S6 HP, Elastoflex S6 G, Elastoflex S6 G FR, Elastoshield TS G, Elastoshield TS G FR, Polyfresko G SBS (poly-film backed), Polyfresko G SBS FR (poly-film backed)	
SBS-SA (SBS, Self-Adhering)	Base or Ply	Elastoflex SA V, Elastoflex SA V PLUS, Elastoflex SA V FR, Elastoflex SA V PLUS FR	Self-Adhering
	Cap	Elastoflex SA P, Elastoflex SA P FR, Polyreflect	
APP-CA1	Cap	Polyflex G, Polyflex G FR, APP Torch G, APP Torch G (FR)	PG350 at 1.5-2.0 gal/square
APP-TA (APP, Torch-Applied)	Base or Ply	Polybase V, Polyflex, Polybond	Torch-Applied
	Cap	Polyflex, Polyflex G, Polyflex G FR, Polybond, Polybond G, Polyfresko G, Polyfresko G FR	
APP-SA (APP, Self-Adhering)	Cap	Polyflex SA P, Polyflex SA P FR, Polyfresko G APP SA, Polyfresko G APP SA FR, Polykool, Polybianko	Self-Adhering

10. Mule Hide Counterparts

TABLE 2: MULE-HIDE COUNTERPARTS	
POLYGLASS [MANUFACTURER]	MULE-HIDE [LABELER]
Polybase V	APP Torch Base Premier
Polybond	APP Torch Base/Cap
Polybond G	APP Torch G
Elastobase V or Elastoshield VP HT	Nail Base
Elastobase P	N/A
Elastoflex SA V	SA Base Sheet
Elastoflex SA V FR	SA Base Sheet (FR)
Elastoflex SA P	SA-SBS Cap Sheet
Elastoflex SA P FR	SA-SBS Cap Sheet (FR)
Elastoflex S6 G	N/A
Polyflex	APP Torch S Premier
Polyflex G	APP Torch G Premier
Polyflex G FR	APP Torch G FR Premier
Polyfresko G	APP Torch G KoolCap
Polyfresko G FR	APP Torch G FR KoolCap
Polyflex SA P	SA-APP Cap Sheet
Polyflex SA P FR	SA-APP Cap Sheet (FR)
Polyfresko G SBS SA	SA-SBS KoolCap
Polyfresko G SBS SA FR	SA-SBS KoolCap FR
Polyfresko G APP SA	SA-APP KoolCap
Polyfresko G APP SA FR	SA-APP KoolCap (FR)

11. (Optional) Apply any of the following coatings to the top roof membrane. Apply the coatings in accordance with the manufacturer's installation instructions.

- PG100 – A general all-purpose penetrating asphalt primer.
- PG200 – Non-Fibered Roof Coating or Mule-Hide 111 Non-Fibrated Roof Coating.
- PG300 – Fibered Roof Coating or Mule-Hide 102 Fibrated Roof Coating.
- PG350 – A cold-applied bonding adhesive.
- PG600 – Non-Fibered Aluminum Roof Coating or Mule-Hide 416 Standard Non-Fibrated Aluminum Roof Coating.
- PG650 – Fibered Aluminum Roof Coating or Mule-Hide 406 Standard Fibrated Aluminum Roof Coating.
- PG700 – Elastomeric Roof Coating in white or tinted; PG700 QS Quick drying Reflective Roof Coating in white or tinted; KM Acryl 25 white or tinted; KM Acryl 25 QS white or tinted.
- PG800 – Non-Fibered Asphalt Emulsion Roof Coating or Mule-Hide 311 Emulsion Non-Fibrated.
- Polyplus 60 – Premium Non-Fibered Aluminum Roof Coating or Mule-Hide 410 Premium Non-Fibrated Aluminum Roof Coating.
- Polyplus 65 – Premium Fibered Aluminum Roof Coating or Mule-Hide 401 Premium Fibrated Aluminum Roof Coating.
- Polybrite 70 – Premium Grade Elastomeric Roof Coating in white or tinted; Polybrite 70 QS Quick drying Elastomeric Roof Coating in white or tinted; KM Acryl 15 in white or tinted; KM Acryl 15 QS in white or tinted.
- Polybrite 71 HS – A premium grade, high solids, water-based elastomeric coating in white or tinted; KM Acryl 40 HS in white or tinted.
- Polybrite 75 – A high tensile, superior grade water-based elastomeric coating in white or tinted; KM Acryl 85 in white or tinted.
- Polybrite 90 – High Solids Silicone Roof Coating in white or tinted; PS #250 High Solids Silicone Roof Coating in white or tinted.
- Polybrite 95 – Silicone Roof Coating in white or tinted; PS #220 High Solids Silicone Roof Coating in white or tinted.
- Polybrite 97X Primer – A two component, 1 to 1 ratio, water-based epoxy primer; KM Epoxy Primer.
- PolyBrite 95.1 – Is a silicone based, white or tinted, liquid applied roof cover.
- PolyBrite 90.1 – Is a silicone based, white or tinted, liquid applied roof cover.
- PolyBrite 98 – Is a water-based, one-part primer/bleed blocker.
- PolyBrite 84 – Is a rust inhibitive primer.
- Turbo-Set™ – A two-component, water-based, elastomeric coating.

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 1A: POLYGLASS MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation		Roof Cover ¹		
		Base	Top	Base	Ply	Cap
LWC-1	Min. 300 psi Elastizell cellular LWIC cast over structural concrete	Min. 1.5" ACFoam-II, ACFoam-III, Polytherm, Polytherm G, ENRGY 3, H-Shield, Polytherm-H, H-Shield CG, Multi-Max FA-3 or Approved EPS 2.0 pcf in Polyset CR-20	(Optional) Additional layer(s) of base insulation in Polyset CR-20	SBS-SA	None	SBS-SA, APP-SA or APP-TA
Design Pressure (psf)		Insulation Attachment				
-180.0		Polyset CR-20 in rows 12" o.c.				

Footnote:

- For roof cover installation, refer to Table 1 above.

TABLE 1A (CONTINUED): POLYGLASS MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation		Roof Cover ¹		
		Base	Top	Base	Ply	Cap
LWC-2	Min. 200 psi Elastizell LWIC cast over structural concrete	Min. 1.5" ACFoam-II, Polytherm, H-Shield, Polytherm-H or Approved EPS 1.0 pcf in Polyset CR-20	Min. 1/4" SECUROCK Gypsum-Fiber Roof Board in Polyset CR-20	SBS-AA or APP-TA	(Optional) SBS-AA or APP-TA	SBS-AA or APP-TA
Design Pressure (psf)		Insulation Attachment				
-180.0		Polyset CR-20 in rows 12" o.c.				

Footnote:

- For roof cover installation, refer to Table 1 above.

Limitations and Installation:

TABLE 1A (CONTINUED): POLYGLASS MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation		Roof Cover ¹		
		Base	Top	Base	Ply	Cap
LWC-3	Min. 300 psi Celcore cellular LWIC cast over structural concrete	Min. 1.5" ACFoam-II, ACFoam-III, Polytherm, Polytherm G, ENRGY 3, H-Shield, Polytherm-H, H-Shield CG, Multi-Max FA-3 or Approved EPS 2.0 pcf in Polyset CR-20	(Optional) Additional layer(s) of base insulation in Polyset CR-20	SBS-SA	None	SBS-SA, APP-SA or APP-TA
Design Pressure (psf)		Insulation Attachment				
-222.5		Polyset CR-20 in rows 12" o.c.				

Footnote:

- For roof cover installation, refer to Table 1 above.

TABLE 1A (CONTINUED): POLYGLASS MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation		Roof Cover ¹		
		Base	Top	Base	Ply	Cap
LWC-4	Min. 200 psi Elastizell cellular LWIC cast over structural concrete	Min. 1.5" ACFoam-II, ACFoam-III, Polytherm, Polytherm G, H-Shield or Polytherm-H, in OlyBond 500 Adhesive, OlyBond 500 Green Adhesive (PaceCart or SpotShot)	(Optional) Additional layer(s) of base insulation in OlyBond 500 Adhesive, OlyBond 500 Green Adhesive (PaceCart or SpotShot)	SBS-SA	None	SBS-SA, APP-SA or APP-TA
Design Pressure (psf)		Insulation Attachment				
-225.0		OlyBond 500 Adhesive, OlyBond 500 Green Adhesive (PaceCart or SpotShot) in rows 12" o.c.				

Footnote:

- For roof cover installation, refer to Table 1 above.

Limitations and Installation:

TABLE 1A (CONTINUED): POLYGLASS MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation		Roof Cover ¹		
		Base	Top	Base	Ply	Cap
LWC-5	Min. 200 psi Elastizell cellular LWIC cast over structural concrete	Min. 2.0" ACFoam-II, ACFoam-III, Polytherm, Polytherm G, ENRGY 3, H-Shield, Polytherm-H, ISO 95+ GL or Approved EPS 1.0 pcf in OlyBond 500 Adhesive, OlyBond 500 Green Adhesive (PaceCart or SpotShot)	Min. 1/4" SECUROCK Gypsum-Fiber Roof Board in OlyBond 500 Adhesive, OlyBond 500 Green Adhesive (PaceCart or SpotShot)	SBS-AA, SBS-TA or APP-TA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA
Design Pressure (psf)		Insulation Attachment				
-225.0		OlyBond 500 Adhesive, OlyBond 500 Green Adhesive (PaceCart or SpotShot) in rows 12" o.c.				

Footnote:

1. For roof cover installation, refer to Table 1 above.

TABLE 1A (CONTINUED): POLYGLASS MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation		Roof Cover ¹		
		Base	Top	Base	Ply	Cap
LWC-6	Min. 200 psi Celcore or Mearlcrete LWIC cast over structural concrete	Min. 2.0" ACFoam-II, Polytherm, ENRGY 3, H-Shield, Polytherm-H or Approved EPS 1.0 pcf in Polyset CR-20	Min. 1/4" SECUROCK Gypsum-Fiber Roof Board in Polyset CR-20	SBS-AA, SBS-TA or APP-TA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA
Design Pressure (psf)		Insulation Attachment				
-222.5		Polyset CR-20 in rows 12" o.c.				

Footnote:

1. For roof cover installation, refer to Table 1 above.

Limitations and Installation:

TABLE 1A (CONTINUED): POLYGLASS MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation		Roof Cover ¹		
		Base	Top	Base	Ply	Cap
LWC-7	Min. 300 psi Mearlcrete cellular LWIC cast over structural concrete	Min. 1.5" ACFoam-II, ACFoam-III, Polytherm, Polytherm G, ENRGY 3, H-Shield, Polytherm-H, H-Shield CG, Multi-Max FA-3 or Approved EPS 2.0 pcf in Polyset CR-20	(Optional) Additional layer(s) of base insulation in Polyset CR-20	SBS-SA	None	SBS-SA, APP-SA or APP-TA
Design Pressure (psf)		Insulation Attachment				
-240.0		Polyset CR-20 in rows 12" o.c.				

Footnote:

- For roof cover installation, refer to Table 1 above.

TABLE 1B: POLYGLASS MODIFIED BITUMEN – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER LIGHTWEIGHT CONCRETE DECK, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER					
Assembly No.	Substrate	Base Sheet		Roof Cover ¹	
		Type	Fasteners	Ply	Cap
LWC-8	Celcore MF Lightweight Concrete with min. compressive strength of 300 psi over min. 22 ga., Type B steel deck	Elastobase V, Elastobase P or Elastoshield VP HT	Trufast FM-90 Base Sheet Fasteners	SBS-SA	SBS-SA
LWC-9	Elastizell with Zell-Crete Fibers with min. compressive strength of 350 psi over min. 22 ga., Type B steel deck	Elastobase V, Elastobase P or Elastoshield VP HT	Trufast Twin Loc-Nail Assembled Fasteners (1.8")	SBS-SA	SBS-SA
Design Pressure (psf)		Base Sheet Attachment			
		At Lap		Staggered Center Row(s)	
		Max Spacing (o.c.)	Min. Lap Width	Max Spacing (o.c.)	Min. # of Rows
		-60.0 (only with LWC-8)	8"	4"	8" 3
-60.0 (only with LWC-9)	6"	4"	6" 3		

Footnote:

- For roof cover installation, refer to Table 1 above.

Limitations and Installation:

TABLE 1B (CONTINUED): POLYGLASS MODIFIED BITUMEN – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER LIGHTWEIGHT CONCRETE DECK, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER					
Assembly No.	Substrate	Base Sheet		Roof Cover ¹	
		Type	Fasteners	Ply	Cap
LWC-10	Celcore MF Lightweight Concrete with min. compressive strength of 300 psi over min. 22 ga., Type B steel deck	Elastobase P	Trufast FM-260 Base Sheet Fasteners	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA
Design Pressure (psf)		Base Sheet Attachment			
		At Lap		Staggered Center Row(s)	
		Max Spacing (o.c.)	Min. Lap Width	Max Spacing (o.c.)	Min. # of Rows
-90.0		10"	4"	10"	3

Footnote:

- For roof cover installation, refer to Table 1 above.

Note: Keep the manufacturer's installation instructions at the job site during the installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.