

## Product Evaluation

RC542 | 0320

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-542

**Effective Date:** March 1, 2020

**Re-evaluation Date:** March 2024

**Product Name:** Derbigum Performance Modified Bitumen Roofing Systems

**Manufacturer:** Derbigum Americas, Inc.  
4800 Blue Parway  
Kansas City, MO 64130  
(800) 727-9872

### General Description:

- **Bitutak MB** is an APP polymer modified bitumen polyester reinforced membrane.
- **Resisto Bitutak** is an APP polymer Modified bitumen polyester reinforced membrane.
- **Bitutak MB Mineral** is an APP polymer modified bitumen polyester reinforced membrane.
- **Resisto Bitutak MB Mineral** is an APP polymer modified bitumen polyester reinforced membrane.
- **Bitutak Cold** is an APP polymer modified bitumen polyester reinforced membrane.
- **Derbigum P** is an APP polymer modified bitumen polyester reinforced membrane.
- **Bitutak Cold Mineral** is a mineral surfaced APP polymer modified bitumen, polyester reinforced membrane.
- **Derbicolor P** is a mineral surfaced APP polymer modified bitumen, polyester reinforced membrane.
- **Derbibase** is an APP modified bitumen glass fiber base sheet for mechanical attachment or Permastic cold adhesive application.

**General Description (Continued):**

- **Derbigum GP** is a modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
- **Derbigum GP-FR** is a fire-resistant modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
- **Derbipure** is a bitumen free waterproofing membrane reinforced with fiberglass/polyester with acrylic coating.
- **Derbicolor P-FR** is a mineral surfaced fire-resistant modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
- **Derbicolor GP-FR** is a mineral surfaced fire-resistant modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
- **Derbibrite** is a modified bitumen membrane reinforced with fiberglass/polyester with acrylic coating.
- **Derbigum XPS** is a modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
- **Derbigum XPS-FR** is a fire-resistant modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
- **Derbicolor GP** is a mineral surfaced modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
- **Derbicolor XPS** is a mineral surfaced modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
- **Derbicolor XPS-FR** is a mineral surfaced fire-resistant modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
- **Derbibase Ultra** is an APP modified bitumen glass fiber base sheet for mechanical attachment of Permastic cold adhesive application.
- **Derbibase HV** is an APP modified bitumen membrane reinforced with polyester mat.
- **PRS Glass Ply IV** is an asphalt coated fiberglass ply sheet for use in hot-mop or mechanically fastened or Permastic cold adhesive application.
- **PRS Glass Ply VI** is an asphalt coated fiberglass ply sheet for use in hot-mop or mechanically fastened or Permastic cold adhesive application.
- **PRS Glass Base** is an asphalt coated fiberglass base sheet for use in hot mop, mechanically fastened, or Permastic cold adhesive applications.
- **PRS Modified Base** is an SBS polymer modified bitumen base sheet.

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

All IRC and the 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 an asphalt primer meeting ASTM D-41 specification and allow to dry prior to installing the Derbigum 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.
  - OMG OlyBond 500 Adhesive in continuous 3/4 to 1" wide ribbons, 12" o.c. using OMG PaceCart or SpotShot dispensing system. Note: OMG OlyBond 500 Green Adhesive may be used in any system listing OMG OlyBond 500 Adhesive.
  - Insta-Stik Quik Set Insulation Adhesive in continuous 3/4" wide ribbons, 12" on center
  - Polyset CR-20 in continuous 2-1/2" to 30.5" ribbons, 12" on center
  - Derbibond LR in continuous 3/4" wide ribbons, 12" on center
  - Duotack in continuous 1/2" to 3/4" wide ribbons, 12" on center. **Note:** Duotack 365 may be used anywhere Duotack is referenced.
  - Duotack SPF in continuous 2-1/2" wide ribbons, max. 12" on center. **Note:** Duotack SPF may be used anywhere Duotack is referenced, except in recover applications over existing smooth-surfaced built-up roof (BUR) or when used to bond expanded polystyrene.
4. Unless otherwise noted, all insulations are flat stock or taper board of the minimum thickness noted.
5. Unless otherwise noted, refer to the following references for bonded base, ply or cap sheet applications per Table 1B.
6. Vapor barrier options for use over structural concrete deck followed by adhered insulation carry the following MDP limitations. The lesser of the MDP listings below versus those in Table 1C applies.

TABLE 1A: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE					
Table	Deck	Assembly No.	Application	Description	Page
2	Concrete	C-1 through C-12	New or Reroof (Tear-Off)	Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	6-14
3	Steel	S-1	New or Reroof (Tear-Off)	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	15
4	Steel	S-2	New or Reroof (Tear-Off)	Mechanically Attached Insulation, Bonded Roof Cover	15
5	LWC	LWC-1 through LWC-3	New or Reroof (Tear-Off)	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	16-18

TABLE 1B: DERBIGUM ROOF COVERS			
Reference	Layer	Material	Application
AA (Asphalt Applied)	Base or Ply	PRS Glass Base, PRS Modified Base, Derbibase, Derbibase Ultra, PRS Glass Ply IV, PRS Glass Ply VI, Derbigum GP, Derbigum XPS	Hot Asphalt at 20 to 25 lbs/sq
TA (APP, Torch-Applied)	Base or Ply	Derbibase, Derbibase Ultra, Derbibase HV, Derbigum GP, Derbigum XPS, Bitutak MB, Resisto Bitak MB	Torch-Applied
	Cap	Derbigum GP, Derbigum GP-FR, Derbigum XPS, Derbigum XPS-FR, Derbicolor GP, Derbicolor P-FR, Derbicolor GP-FR, Derbicolor XPS, Derbicolor XPS-FR, Derbibrite, Derbipure, Bitutak MB, Resisto Bitutak MB, Bitutak MB Mineral, Resisto Bitutak MB Mineral	
CA-1 (Cold-Applied with Permastic)	Base or Ply	PRS Glass Base, PRS Modified Base, Derbibase, Derbibase Ultra, Derbibase HV, PRS Glass Ply IV, PRS Glass Ply VI, Derbigum GP, Derbigum GP-FR, Derbigum XPS, Derbigum XPS-FR	Permastic Adhesive at 1.5 to 2.5 gal/sq
	Cap	Derbigum GP, Derbigum GP-FR, Derbigum XPS, Derbigum XPS-FR, Derbicolor GP, Derbicolor P-FR, Derbicolor GP-FR, Derbicolor XPS, Derbicolor XPS-FR, Derbibrite, Derbipure, Bitutak Cold, Derbigum P, Bitutak Cold Mineral, Derbicolor	

<b>TABLE 1C: DERBIGUM ROOF COVERS</b>					
<b>Option #</b>	<b>PRIMER</b>	<b>VAPOR BARRIER</b>		<b>INSULATION ADHESIVE</b>	<b>MDP (PSF)</b>
		<b>TYPE</b>	<b>ATTACH</b>		
VB-1	ASTM D41	Derbibase Ultra	Torch Applied	Hot Asphalt	-75.0
VB-2	Derbibase SA Primer	Derbistick SA	Self-Adhering	Duotack, Duotack 365 or Duotack SPF	-240.0
VB-3	Derbibase SA Primer	One or two plies Derbibase SA Ultra or Derbibase SA	Self-Adhering	Duotack, Duotack 365 or Duotack SPF	-315.0
VB-4	ASTM D41	Derbibase	Torch Applied	OMG OlyBond 500, ribbons 12" o.c.	-77.5
VB-5	ASTM D41	Bitutak MB Mineral, Resisto Bitutak MB Mineral, Bitutak Cold Mineral, Derbicolor P	Permastic Adhesive at 1.5 gal/sq	OMG Olybond 500, ribbons 12" o.c.	-165.0
VB-6	ASTM D41	Bitutak MB Mineral, Resisto Bitutak MB Mineral, Bitutak Cold Mineral, Derbicolor	Torch Applied	OMG OlyBond 500, ribbons 12" o.c.	-180.0
VB-7	ASTM D41	Two plies PRS Glass Ply IV or PRS Glass Ply	Hot Asphalt	OMG Olybond 500, ribbons 12" o.c.	-210.0

**Limitations and Installation:** Installation shall be in accordance with the following assemblies:

<b>TABLE 2: DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF)                      CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER                      REFER TO TABLE 1C FOR VAPOR BARRIER OPTIONS</b>								
Assembly No.	Substrate	Vapor Barrier		Insulation		Roof Cover <sup>1</sup>		
		Type	Attach	Base	Top	Base	Ply	Cap
#1 (C-1)	Structural concrete, primed with ASTM D41 primer	See Table 1C	See Table 1C	Min. 1-inch ACFoam-II, ACFoam-III, ENRGY 3 or ISO 95+ GL attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Min. 1/4 inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 1/2 inch DuraBoard attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	TA	(Optional) TA	TA
<b>Design Pressure (psf)</b>		<b>Insulation Attachment</b>						
-77.5		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

**Footnote:**

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

**Limitations and Installation (cont.):**

TABLE 2 (CONTINUED): DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER REFER TO TABLE 1C FOR VAPOR BARRIER OPTIONS								
Assembly No.	Substrate	Vapor Barrier		Insulation		Roof Cover <sup>1</sup>		
		Type	Attach	Base	Top	Base	Ply	Cap
#2 (C-2)	Structural concrete, primed with ASTM D41 primer	See Table 1C	See Table 1C	(Optional) Min. 1-inch ACFoam-II, ACFoam-III, ENRGY 3 or ISO 95+ GL attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Min. 1/4 inch SECUROCK Gypsum-Fiber Roof Board or min. 1/2 inch DuraBoard attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Derbibase, Derbibase Ultra, Derbibase HV, Bitutak MB or Resisto Bitutak MB	(Optional) TA	TA
<b>Design Pressure (psf)</b>		<b>Insulation Attachment</b>						
-130.0		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

**Footnote:**

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

**Limitations and Installation (cont.):**

TABLE 2 (CONTINUED): DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER REFER TO TABLE 1C FOR VAPOR BARRIER OPTIONS								
Assembly No.	Substrate	Vapor Barrier		Insulation		Roof Cover <sup>1</sup>		
		Type	Attach	Base	Top	Base	Ply	Cap
#3 (C-3)	Structural concrete, primed with ASTM D41 primer	See Table 1C	See Table 1C	(Optional) Min. 1-inch ACFoam-II, ACFoam-III, ENRGY 3 or ISO 95+ GL attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Min. 1/2 inch DuraBoard attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Derbigum GP or Derbigum XPS	(Optional) TA	TA
<b>Design Pressure (psf)</b>		<b>Insulation Attachment</b>						
-130.0		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

**Footnote:**

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

**Limitations and Installation (cont.):**

TABLE 2 (CONTINUED): DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER REFER TO TABLE 1C FOR VAPOR BARRIER OPTIONS								
Assembly No.	Substrate	Vapor Barrier		Insulation		Roof Cover <sup>1</sup>		
		Type	Attach	Base	Top	Base	Ply	Cap
#4 (C-4)	Structural concrete	See Table 1C	See Table 1C	Min. 1-inch ACFoam-II, ACFoam-III, ENRGY 3 or ISO 95+ GL attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Min. 1/4 inch SECUROCK Gypsum-Fiber Roof Board or min. 1/2 inch DuraBoard attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	TA	(Optional) TA	TA
<b>Design Pressure (psf)</b>		<b>Insulation Attachment</b>						
-130.0		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

**Footnote:**

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



**Limitations and Installation (cont.):**

TABLE 2 (CONTINUED): DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER REFER TO TABLE 1C FOR VAPOR BARRIER OPTIONS								
Assembly No.	Substrate	Vapor Barrier		Insulation		Roof Cover <sup>1</sup>		
		Type	Attach	Base	Top	Base	Ply	Cap
#5 (C-5)	Structural concrete	See Table 1C	See Table 1C	Min. 1-inch ACFoam-II, ACFoam-III, ENRGY 3 or ISO 95+ GL attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Min. ¼-inch DensDeck Prime attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	TA	(Optional) TA	TA
<b>Design Pressure (psf)</b>		<b>Insulation Attachment</b>						
-160.0		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

**Footnote:**

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

**Limitations and Installation (cont.):**

TABLE 2 (CONTINUED): DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER REFER TO TABLE 1C FOR VAPOR BARRIER OPTIONS								
Assembly No.	Substrate	Vapor Barrier		Insulation		Roof Cover <sup>1</sup>		
		Type	Attach	Base	Top	Base	Ply	Cap
#6 (C-6)	Structural concrete	See Table 1C	See Table 1C	Min. 1-inch ACFoam-II, ACFoam-III, ENRGY 3 or ISO 95+ GL attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Min. 1/4 inch SECUROCK Gypsum-Fiber Roof Board or min. 1/2 inch DuraBoard attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Derbigum GP or Derbigum XPS	(Optional) TA	TA
<b>Design Pressure (psf)</b>		<b>Insulation Attachment</b>						
-160.0		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

**Footnote:**

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

**Limitations and Installation (cont.):**

TABLE 2 (CONTINUED): DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER REFER TO TABLE 1C FOR VAPOR BARRIER OPTIONS								
Assembly No.	Substrate	Vapor Barrier		Insulation		Roof Cover <sup>1</sup>		
		Type	Attach	Base	Top	Base	Ply	Cap
#7 (C-7)	Structural concrete, primed with ASTM D41 primer	See Table 1C	See Table 1C	Min. 1-inch ACFoam-II, ACFoam-III, ENRGY 3 or ISO 95+ GL attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Min. 1/4 inch DenDeck Prime attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	TA	(Optional) TA	TA
<b>Design Pressure (psf)</b>		<b>Insulation Attachment</b>						
-160.0		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

**Footnote:**

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

**Limitations and Installation (cont.):**

TABLE 2 (CONTINUED): DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER REFER TO TABLE 1C FOR VAPOR BARRIER OPTIONS								
Assembly No.	Substrate	Vapor Barrier		Insulation		Roof Cover <sup>1</sup>		
		Type	Attach	Base	Top	Base	Ply	Cap
#8 (C-8)	Structural concrete, primed with ASTM D41 primer	See Table 1C	See Table 1C	Min. 1-inch ACFoam-II, ACFoam-III, ENRGY 3 or ISO 95+ GL attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Min. 1/4 inch SECUROCK Gypsum-Fiber Roof Board or min. 1/2 inch DuraBoard attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Derbigum GP or Derbigum XPS	(Optional) TA	TA
<b>Design Pressure (psf)</b>		<b>Insulation Attachment</b>						
-160.0		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

**Footnote:**

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

**Limitations and Installation (cont.):**

TABLE 2 (CONTINUED): DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER REFER TO TABLE 1C FOR VAPOR BARRIER OPTIONS									
Assembly No.	Substrate	Vapor Barrier		Insulation		Roof Cover <sup>1</sup>			
		Type	Attach	Base	Top	Base	Ply	Cap	
#9 (C-9)	Structural concrete, primed with ASTM D41 primer	See Table 1C	See Table 1C	Min. 1/4 inch DensDeck Prime attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive		None	TA	(Optional) TA	TA
<b>Design Pressure (psf)</b>		<b>Base Insulation Attachment</b>							
-210.0		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.							

**Footnote:**

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

**Limitations and Installation (cont.):**

TABLE 2 (CONTINUED): DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER REFER TO TABLE 1C FOR VAPOR BARRIER OPTIONS									
Assembly No.	Substrate	Vapor Barrier		Insulation		Roof Cover <sup>1</sup>			
		Type	Attach	Base	Top	Base	Ply	Cap	
#10 (C-10)	Structural concrete, primed with ASTM D41 primer	See Table 1C	See Table 1C	Min. 1/4 inch SECUROCK Gypsum-Fiber Roof Board or min. 1/2 inch DuraBoard attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive		None	Derbigum GP or Derbigum XPS	(Optional) TA	TA
<b>Design Pressure (psf)</b>		<b>Base Insulation Attachment</b>							
-210.0		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.							

**Footnote:**

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

**Limitations and Installation (cont.):**

<b>TABLE 2 (CONTINUED): DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF)                      CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER                      REFER TO TABLE 1C FOR VAPOR BARRIER OPTIONS</b>								
Assembly No.	Substrate	Vapor Barrier		Insulation		Roof Cover <sup>1</sup>		
		Type	Attach	Base	Top	Base	Ply	Cap
#11 (C-11)	Structural concrete	See Table 1C	See Table 1C	Min. 2" Derbiboard, ACFoam-II, Derbiboard CA, ACFoam-III, H-Shield, H-Shield CG, adhered with OMG Olybond 500 or OMG Olybond 500 Green adhesive, applied in ribbons 12" o.c.	Min. 0.5" H-Shield HD, adhered with OMG Olybond 500 or OMG Olybond 500 Green adhesive, applied in ribbons 12" o.c.	CA-1	(Optional) TA	TA
<b>Design Pressure (psf)</b>		<b>Base Insulation Attachment</b>						
-67.5		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

**Footnote:**

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

**Limitations and Installation (cont.):**

<b>TABLE 2 (CONTINUED): DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF)                      CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER                      REFER TO TABLE 1C FOR VAPOR BARRIER OPTIONS</b>								
Assembly No.	Substrate	Vapor Barrier		Insulation		Roof Cover <sup>1</sup>		
		Type	Attach	Base	Top	Base	Ply	Cap
#12 (C-12)	Structural concrete	See Table 1C	See Table 1C	Min. 1" Derbiboard, ACFoam-II, Derbiboard CA, ACFoam-III, ENERGY ISO 95+ GL, adhered with OMG Olybond 500 or OMG Olybond 500 Green adhesive, applied in ribbons 12" o.c.	Min. 0.25" DendDeck Prime, adhered with OMG Olybond 500 or OMG Olybond 500 Green adhesive, applied in ribbons 12" o.c.	TA	TA	TA (except with Derbicolor P-FR)
<b>Design Pressure (psf)</b>		<b>Base Insulation Attachment</b>						
-160.0		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

**Footnote:**

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

**Limitations and Installation (cont.):**

<b>TABLE 3: DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF)</b>						
<b>STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER</b>						
Assembly No.	Substrate	Insulation		Roof Cover <sup>1</sup>		
		Base	Top	Base	Ply	Cap
#13 (S-1)	Min 22-ga., Type B, Grade 33 steel	Min. 2" Derbiboard, ACFoam-II, fastened with Trufast #15 EHD Fasteners & Trufast 3" Metal Insulation Plates (1 per 1.33 sf)	Min. 1/4" DEXcell FA Glass Mat Roof Board, applied with Derbibond LR adhesive applied in ribbons 12" o.c.	TA	(Optional) TA	TA
<b>Design Pressure (psf)</b>		<b>Base Insulation Attachment</b>				
-52.5		Derbibond LR Adhesive in rows 12-inch o.c.				

**Footnote:**

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

**Limitations and Installation (cont.):**

<b>TABLE 4: DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF)</b>						
<b>STEEL DECK, LOOSE LAID BASE INSULATION, MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER</b>						
Assembly No.	Substrate	Insulation		Roof Cover <sup>1</sup>		
		Base	Top	Base	Ply	Cap
#14 (S-2)	Min 22-ga., Type B, Grade 33 steel	Min. 2" Derbiboard, ACFoam-II, loose laid	Min. 1/2" DEXcell FA Glass Mat Roof Board, fastened with Trufast #15 EHD Fasteners & Trufast 3" Metal Insulation Plates (1 per 1.6 sq ft)	TA	(Optional) TA	TA
<b>Design Pressure (psf)</b>		<b>Base Insulation Attachment</b>				
-60.0		Loose laid				

**Footnote:**

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

**Limitations and Installation (cont.):**

TABLE 5: DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LWC DECK, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER							
Assembly No.	Substrate	Lightweight Concrete	Base Sheet			Roof Cover <sup>1</sup>	
			Base	Fasteners	Spacing	Base Ply	Cap
#15 (LWC-1)	Min 22-ga., Type B, Grade 33 steel	Min. 390 psi Celcore MF with HS Rheology Modifying Admixture; Deck treated with Celcore S-1	PRS Glass Base	Trufast FM 90 Base Sheet Fasteners	9" o.c. in the 4" lap and 9" o.c. at two (2) equally spaced, staggered center rows	TA	TA
<b>Design Pressure (psf)</b>			<b>Insulation Attachment</b>				
-67.5			N/A				

**Footnote:**

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



**Limitations and Installation (cont.):**

TABLE 5 (CONTINUED): DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LWC DECK, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER							
Assembly No.	Substrate	Lightweight Concrete	Base Sheet			Roof Cover <sup>1</sup>	
			Base	Fasteners	Spacing	Base Ply	Cap
#16 (LWC-2)	Min 22-ga., Type B, Grade 33 steel	Min. 387 psi Celcore MF with HS Rheology Modifying Admixture; Deck treated with Celcore S-1	Bitutak MB or Resisto Bitutak MB (inverted)	Trufast FM 90 Base Sheet Fasteners	7" o.c. in the 4" lap and 7" o.c. at two (2) equally spaced, staggered center rows	TA	TA
<b>Design Pressure (psf)</b>			<b>Insulation Attachment</b>				
-75.0			N/A				

**Footnote:**

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

**Limitations and Installation (cont.):**

TABLE 5 (CONTINUED): DERBIGUM MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LWC DECK, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER							
Assembly No.	Substrate	Lightweight Concrete	Base Sheet			Roof Cover <sup>1</sup>	
			Base	Fasteners	Spacing	Base Ply	Cap
#17 (LWC-3)	Min 22-ga., Type B, Grade 33 steel	Min. 387 psi Celcore MF with HS Rheology Modifying Admixture; Deck treated with Celcore S-1	Derbibase HV	Trufast FM 90 Base Sheet Fasteners	7" o.c. in the 4" lap and 7" o.c. at two (2) equally spaced, staggered center rows	(Optional) TA	TA
<b>Design Pressure (psf)</b>			<b>Insulation Attachment</b>				
-82.5			N/A				

**Footnote:**

1. 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.