

FleeceBACK® RL™

RapidLock Membrane

FleeceBACK RL EPDM, TPO, PVC

Code Approval Guide

August, 2020

Table of Contents

UL Approvals:

Non-Combustible - ANSI UL - Class A.....	2
Non-Combustible - ANSI UL - Class B.....	3

FM Approvals:

InsulBase Polyiso New Construction.....	4
---	---

Reference Notes.....	5
----------------------	---



**UL Approval - ANSI/UL 790 Spread of Flame Test (Class A)
FleeceBACK RL Roofing System**

Membrane Type: Sure-Seal FleeceBACK RL - 115membrane
Sure-Weld FleeceBACK RL - 115 membrane
Sure-Flex FleeceBACK RL - 115 membrane

Non-Combustible: Steel; St. Concrete; Gypsum; Tectum (Min. 2" thick)

System ID	Deck Type	Barrier	Insulation	Cover Board	Maximum Slope		
					Sure-Seal FleeceBACK RL	Sure-Weld FleeceBACK RL	Sure-Flex FleeceBACK RL
1	Non-Combustible (1)	N/A	(Optional) Any UL Classified Insulation, any combination, any thickness	½-inch SecurShield HD RL	1/2"	1/2"	1/2"
2	Non-Combustible (1)	N/A	InsulBase RL, any combination, any thickness	N/A	1/2"	1/2"	1/2"
3	Combustible (2)(3)	¼-inch DensDeck® Roofboard, DensDeck® Prime Roofboard, SECUROCK Glass-Mat Roof Board, SECUROCK Gypsum Fiber Roof Board	(Optional) Any UL Classified Insulation, any combination, any thickness	½-inch SecurShield HD RL	1/2"	1/2"	1/2"
4	Combustible (2)(3)	¼-inch DensDeck® Roofboard, DensDeck® Prime Roofboard, SECUROCK Glass-Mat Roof Board, SECUROCK Gypsum Fiber Roof Board	InsulBase RL, any combination, any thickness	N/A	1/2"	1/2"	1/2"
5	Combustible (2)(3)	N/A	Minimum 2.5-inch layer of InsulBase.	½-inch SecurShield HD RL	1/2"	1/2"	1/2"
6	Combustible (2)(3)	1 layer of Carlisle FR Base Sheet	Minimum 1.4-inch layer of InsulBase.	½-inch SecurShield HD RL	1/2"	1/2"	1/2"
7	Combustible (2)(3)	N/A	Minimum 4-inch layer of any UL Classified EPS	½-inch SecurShield HD RL	1/2"	1/2"	1/2"

UL Approval - ANSI/UL 790 Spread of Flame Test (Class B)
FleeceBACK RL Roofing System

Membrane Type: Sure-Seal FleeceBACK RL - 115membrane
 Sure-Weld FleeceBACK RL - 115 membrane

Non-Combustible: Steel; St. Concrete; Gypsum; Tectum (Min. 2" thick)

System ID	Deck Type	Barrier	Insulation	Cover Board	Maximum Slope	
					Sure-Seal FleeceBACK RL	Sure-Weld FleeceBACK RL
1	Combustible (2)(3)	N/A	Minimum 1.4-inch layer of InsulBase.	½-inch SecurShield HD RL	1/2"	1/2"

Factory Mutual Approvals
FleeceBACK RL Roofing System

InsulBase RL & Securshield HD RL Polyiso Ratings - New Construction

Membrane Type: Sure-Seal FleeceBACK RL - 115 membrane
Sure-Weld FleeceBACK RL - 115 membrane

Base and Top Layer Adhesive: FAST = Flexible FAST and Flexible FAST Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 4, 5 & 6)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 4, 5 & 6)	Rating	Sure-Seal	Sure-Weld
					RoofNAV Number	
Steel Deck (Min. 22-Gauge)						
Min. 1-1/2" InsulBase Polyiso	Loose-laid	Min 2" Insulbase RL	8 (4 sq. ft)	1-90	430381-0-0	430340-0-0
Min. 1-1/2" InsulBase Polyiso	Loose-laid	Min 1/2" Securshield HD RL	16 (2 sq. ft)	1-90	430386-0-0	430385-0-0
Min. 1-1/2" InsulBase Polyiso	Loose-laid	Min 2" Insulbase RL	20 (1.6 sq. ft)	1-150	430630-0-0	430426-0-0
Min. 1-1/2" InsulBase Polyiso	32 (1 sq. ft)	Min. 1/2" SecurShield HD RL	4" ribbons of FAST	1-225	445231-0-0	445229-0-0
Steel Deck (Min. 22-Gauge) / VapAir Seal 725TR and Cav-Grip III or 702 Primer						
Min. 1/2" Dens-Deck Prime or Securock	8 (4 sq. ft)	Min 2" Insulbase RL or Min. 1/2" SecurShield HD RL over Min. 1-1/2" InsulBase	12" ribbons of FAST	1-90	-	-
Steel Deck (Min. 22-Gauge) / SureMB 90TG or 120TG Base Torch Applied						
Min. 1/2" Dens-Deck Prime or Securock	8 (4 sq. ft)	Min 2" Insulbase RL or Min. 1/2" SecurShield HD RL over Min. 1-1/2" InsulBase	12" ribbons of FAST	1-90	-	-
Concrete Deck						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min 2" Insulbase RL or Min. 1/2" SecurShield HD RL	12" ribbons of FAST	1-285	460108-0-0	460110-0-0
Min. 1-1/2" InsulBase Polyiso	Loose-laid	Min 2" Insulbase RL	20 (1.6 sq. ft)	1-150	-	460469-0-0
Concrete Deck / VapAir Seal 725TR and Cav-Grip III, 702-LV or 702 Primer						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min 2" Insulbase RL or Min. 1/2" SecurShield HD RL	12" ribbons of FAST	1-285	460107-0-0	460109-0-0
Concrete Deck / SureMB 90TG and 120TG Base Torch Applied / Cut-Back Asphalt Primer						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min 2" Insulbase RL or Min. 1/2" SecurShield HD RL	12" ribbons of FAST	1-285	-	-

FleeceBACK® RL

Reference Notes

1. Insulated roof systems may be utilized over any type of existing roof system and maintain its new construction rating when the roof deck is noncombustible.
2. Insulated roof systems certified for use over combustible deck can be used over any type of existing roof system and maintain its new construction rating.
3. Insulated roof systems certified for use over noncombustible deck may be used over any type of Class A, B or C existing roof systems. The resultant Class will be the lesser rating of the existing system or the new construction (recover) system.
4. Sure-Seal HP fastener/Sure-Seal Insulation plate.
5. InsulFAST fastener/Sure-Seal Insulation plate.
6. InsulFAST fastener/SecurFAST Insulation Fastening plate.