

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION		PAGE
				MATERIAL	INSTALLATION	
1	Wood, Steel or Structural concrete	New or Reroof (Tear-Off)	A-1	ELASTOTITE® G 20140 Roofing Adhesive	Bonded Insulation	2
2	Steel or Structural concrete	Recover	A-1	ELASTOTITE® G 20140 Roofing Adhesive	Bonded Insulation	4

The following notes apply to the systems outlined herein:

- The performance data contained herein pertains to substrate interfaces bonded with **ELASTOTITE® G 20140 Roofing Adhesive**. If a roof system's Product Approval documentation does not specifically include **ELASTOTITE® G 20140 Roofing Adhesive** with a particular interface, the data noted herein can be used to compare with the maximum design pressure of the roof assembly's interface with the top insulation layer. The lesser of the two applies.
- This PEER to above-deck roof components. Roof decks shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- Unless otherwise noted, data pertains to **ELASTOTITE® G 20140 Roofing Adhesive** applied as follows. Ribbon size is at the time of application; ribbons will expand as outlined in the manufacturer's published installation instructions as insulation boards are put in place.
 - FULL coverage: 1 to 1.25 gal/square
 - RIBBON applied: Continuous 3-inch wide ribbons, 12-inch o.c.
- For adhered roof insulation and board-size: Unless otherwise noted, refer to Section 2.2.10.6.2 of [FM Loss Prevention Data Sheet](#) 1-29.
- For partially bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with FBC Chapter 16. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are [ANSI/SPRI](#) WD1 and [FM Loss Prevention Data Sheet](#) 1-29.
- For existing substrates in recover or re-roof installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance shall be conducted on mock-ups of the proposed new roof assembly. For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing. Field uplift testing shall be in accordance with [ASTM](#) E907, [FM Loss Prevention Data Sheet](#) 1-52 or [Testing Application Standard](#) TAS 124.
- "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609 for determination of design wind loads.

TABLE 1: ELASTOTITE® G 20140 ROOFING ADHESIVE PERFORMANCE DATA (NOTE 1) – NEW CONSTRUCTION OR RE-ROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION

Substrate (Note 2 & Note 6)	Base Insulation		Top Insulation		MDP (psf)
	Type	Attach (Note 3)	Type	Attach (Note 3)	
15/32" APA rated plywood	Two (2) layers Atlas "ACFoam II", totaling 2.6-inch	FULL	None	N/A	-105.0
15/32" APA rated plywood	Min. 2.6-inch Atlas "ACFoam II"	FULL	None	N/A	-120.0
22 ga., Type B steel	Min. 0.25-inch G-P Gypsum "DensDeck", "DensDeck Prime" or "DensDeck StormX Prime Roof Board" or USG Corp "SECUROCK Gypsum Fiber Roof Board"	FULL	Min. 1.3-inch Atlas "ACFoam II"	FULL	-67.5
22 ga., Type B steel	Min. 1.3-inch Atlas "ACFoam II"	FULL	Min. 0.25-inch G-P Gypsum "DensDeck", "DensDeck Prime" or "DensDeck StormX Prime Roof Board" or USG Corp "SECUROCK Gypsum Fiber Roof Board"	FULL	-67.5
22 ga., Type B steel	Min. 1.3-inch Atlas "ACFoam II"	FULL	None	N/A	-75.0
Min. 2,500 psi structural concrete	(Optional) One or more layers, Min. 1.5-inch Atlas "ACFoam II", Carlisle SynTec "InsulBase", Firestone "ISO 95+ GL", GAF "EnergyGuard Polyiso Insulation", "GenFlex ISO Insulation", Hunter Panels "H-Shield", Johns Manville "ENRGY 3", "ENRGY 3 AGF", "ENRGY 3 CGF", Soprema "SOPRA-ISO r", "SOPRA-ISO s" or Versico "VersiCore MP-H"	RIBBON	Min. 2-inch Atlas "ACFoam Composite/FB" or Soprema "SOPRA-ISO FB s"	RIBBON	-165.0
Min. 2,500 psi structural concrete	One or more layers, Min. 1.5-inch Atlas "ACFoam II", Carlisle SynTec "InsulBase", Firestone "ISO 95+ GL", GAF "EnergyGuard Polyiso Insulation", "GenFlex ISO Insulation", Hunter Panels "H-Shield", Johns Manville "ENRGY 3", "ENRGY 3 AGF", "ENRGY 3 CGF", Soprema "SOPRA-ISO r", "SOPRA-ISO s" or Versico "VersiCore MP-H"	RIBBON	Min. 0.5-inch USG Corp "SECUROCK Gypsum Fiber Roof Board"	RIBBON	-195.0
Min. 2,500 psi structural concrete	One or more layers, Min. 1.5-inch Atlas "ACFoam II", Carlisle SynTec "InsulBase", Firestone "ISO 95+ GL", GAF "EnergyGuard Polyiso Insulation", "GenFlex ISO Insulation", Hunter Panels "H-Shield", Johns Manville "ENRGY 3", "ENRGY 3 AGF", "ENRGY 3 CGF", Soprema "SOPRA-ISO r", "SOPRA-ISO s" or Versico "VersiCore MP-H"	RIBBON	Min. 0.5-inch G-P Gypsum "DensDeck Prime" or "DensDeck StormX Prime Roof Board"	RIBBON	-232.5
Min. 2,500 psi structural concrete	One or more layers, Min. 1.5-inch Atlas "ACFoam II", Carlisle SynTec "InsulBase", Firestone "ISO 95+ GL", GAF "EnergyGuard Polyiso Insulation", "GenFlex ISO Insulation", Hunter Panels "H-Shield", Johns Manville "ENRGY 3", "ENRGY 3 AGF", "ENRGY 3 CGF", Soprema "SOPRA-ISO r", "SOPRA-ISO s" or Versico "VersiCore MP-H"	RIBBON	Min. 0.5-inch G-P Gypsum "DensDeck"	RIBBON	-240.0
Min. 2,500 psi structural concrete	One or more layers, Min. 1.5-inch Atlas "ACFoam II", Carlisle SynTec "InsulBase", Firestone "ISO 95+ GL", GAF "EnergyGuard Polyiso Insulation", "GenFlex ISO Insulation", Hunter Panels "H-Shield", Soprema "SOPRA-ISO r", "SOPRA-ISO s" or Versico "VersiCore MP-H"	FULL	Min. 0.5-inch Versico "Versico Recovery Board"	FULL	-157.5

TABLE 1: ELASTOTITE® G 20140 ROOFING ADHESIVE PERFORMANCE DATA (NOTE 1) – NEW CONSTRUCTION OR RE-ROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION

Substrate (Note 2 & Note 6)	Base Insulation		Top Insulation		MDP (psf)
	Type	Attach (Note 3)	Type	Attach (Note 3)	
Min. 2,500 psi structural concrete	One or more layers, Min. 1.5-inch Atlas “ACFoam II”, Carlisle SynTec “InsulBase”, Firestone “ISO 95+ GL”, GAF “EnergyGuard Polyiso Insulation”, “GenFlex ISO Insulation”, Hunter Panels “H-Shield”, Johns Manville “ENRGY 3”, “ENRGY 3 AGF”, “ENRGY 3 CGF”, Soprema “SOPRA-ISO r”, “SOPRA-ISO s” or Versico “VersiCore MP-H”	FULL	Min. 0.5-inch G-P Gypsum “DensDeck”	FULL	-285.0
Min. 2,500 psi structural concrete	(Optional) One or more layers, Min. 1.5-inch Atlas “ACFoam II”, Carlisle SynTec “InsulBase”, Firestone “ISO 95+ GL”, GAF “EnergyGuard Polyiso Insulation”, “GenFlex ISO Insulation”, Hunter Panels “H-Shield”, Johns Manville “ENRGY 3”, “ENRGY 3 AGF”, “ENRGY 3 CGF”, Soprema “SOPRA-ISO r”, “SOPRA-ISO s” or Versico “VersiCore MP-H”	FULL	Min. 2-inch Atlas “ACFoam Composite/FB” or Soprema “SOPRA-ISO FB s”	FULL	-307.5

TABLE 2: ELASTOTITE® G 20140 ROOFING ADHESIVE PERFORMANCE DATA (NOTE 1) - RECOVER
SYSTEM TYPE A-1: BONDED INSULATION

Deck (Note 2)	Existing Roof (Note 6)	Base Insulation		Top Insulation		MDP (psf)
		Type	Attach (Note 3)	Type	Attach (Note 3)	
22 ga. steel	Existing asphalt built-up roof	(Optional) One or more layers, Min. 1.5-inch Atlas "ACFoam II", Carlisle SynTec "InsulBase", Firestone "ISO 95+ GL", GAF "EnergyGuard Polyiso Insulation", "GenFlex ISO Insulation", Hunter Panels "H-Shield", Johns Manville "ENRGY 3", "ENRGY 3 AGF", "ENRGY 3 CGF", Soprema "SOPRA-ISO r", "SOPRA-ISO s" or Versico "VersiCore MP-H"	FULL	Min. 0.5-inch G-P Gypsum "DensDeck", "DensDeck Prime" or "DensDeck StormX Prime Roof Board", USG Corp "SECUROCK Gypsum Fiber Roof Board", or Versico "Versico Recovery Board" or Min. 2-inch Atlas "ACFoam Composite/FB" or Soprema "SOPRA-ISO FB s"	FULL	-45.0
Min. 2,500 psi structural concrete	Existing asphalt built-up roof	(Optional) One or more layers, Min. 1.5-inch Atlas "ACFoam II", Carlisle SynTec "InsulBase", Firestone "ISO 95+ GL", GAF "EnergyGuard Polyiso Insulation", "GenFlex ISO Insulation", Hunter Panels "H-Shield", Johns Manville "ENRGY 3", "ENRGY 3 AGF", "ENRGY 3 CGF", Soprema "SOPRA-ISO r", "SOPRA-ISO s" or Versico "VersiCore MP-H"	RIBBON	Min. 2-inch Atlas "ACFoam Composite/FB" or Soprema "SOPRA-ISO FB s"	RIBBON	-135.0
Min. 2,500 psi structural concrete	Existing asphalt built-up roof	(Optional) One or more layers, Min. 1.5-inch Atlas "ACFoam II", Carlisle SynTec "InsulBase", Firestone "ISO 95+ GL", GAF "EnergyGuard Polyiso Insulation", "GenFlex ISO Insulation", Hunter Panels "H-Shield", Johns Manville "ENRGY 3", "ENRGY 3 AGF", "ENRGY 3 CGF", Soprema "SOPRA-ISO r", "SOPRA-ISO s" or Versico "VersiCore MP-H"	RIBBON	Min. 0.5-inch G-P Gypsum "DensDeck", "DensDeck Prime" or "DensDeck StormX Prime Roof Board" or USG Corp "SECUROCK Gypsum Fiber Roof Board"	RIBBON	-195.0
Min. 2,500 psi structural concrete	Existing asphalt built-up roof	(Optional) One or more layers, Min. 1.5-inch Atlas "ACFoam II", Carlisle SynTec "InsulBase", Firestone "ISO 95+ GL", GAF "EnergyGuard Polyiso Insulation", "GenFlex ISO Insulation", Hunter Panels "H-Shield", Johns Manville "ENRGY 3", "ENRGY 3 AGF", "ENRGY 3 CGF", Soprema "SOPRA-ISO r", "SOPRA-ISO s" or Versico "VersiCore MP-H"	FULL	Min. 0.5-inch Versico "Versico Recovery Board"	FULL	-157.5
Min. 2,500 psi structural concrete	Existing asphalt built-up roof	(Optional) One or more layers, Min. 1.5-inch Atlas "ACFoam II", Carlisle SynTec "InsulBase", Firestone "ISO 95+ GL", GAF "EnergyGuard Polyiso Insulation", "GenFlex ISO Insulation", Hunter Panels "H-Shield", Johns Manville "ENRGY 3", "ENRGY 3 AGF", "ENRGY 3 CGF", Soprema "SOPRA-ISO r", "SOPRA-ISO s" or Versico "VersiCore MP-H"	FULL	Min. 2-inch Atlas "ACFoam Composite/FB" or Soprema "SOPRA-ISO FB s"	FULL	-210.0
Min. 2,500 psi structural concrete	Existing asphalt built-up roof	(Optional) One or more layers, Min. 1.5-inch Atlas "ACFoam II", Carlisle SynTec "InsulBase", Firestone "ISO 95+ GL", GAF "EnergyGuard Polyiso Insulation", "GenFlex ISO Insulation", Hunter Panels "H-Shield", Johns Manville "ENRGY 3", "ENRGY 3 AGF", "ENRGY 3 CGF", Soprema "SOPRA-ISO r", "SOPRA-ISO s" or Versico "VersiCore MP-H"	FULL	Min. 0.5-inch G-P Gypsum "DensDeck", "DensDeck Prime" or "DensDeck StormX Prime Roof Board" or USG Corp "SECUROCK Gypsum Fiber Roof Board"	FULL	-232.5