

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
<u>1</u>	Wood	New, Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	2
<u>2</u>	Concrete	New, Reroof (Tear Off)	F	Non-Insulated, Bonded Roof Cover	2

The following notes apply to the systems outlined herein:

- 1 The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 2 RESERVED
- 3 RESERVED
- 4 RESERVED
- 5 RESERVED
- 6 RESERVED
- 7 RESERVED
- 8 RESERVED
- 9 RESERVED
- 10 For assemblies with all components fully bonded, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16 or RAS 128. No rational analysis is permitted for these systems.
- 11 RESERVED
- 12 For bonded insulation or membrane over existing substrates in a re-roof (tear off) installation, the existing deck 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 shall be conducted on mock-ups of the proposed new roof assembly in accordance with ASTM E907, [FM Loss Prevention Data Sheet](#) 1-52 or Testing Application Standard TAS 124.
- 13 RESERVED
- 14 RESERVED
- 15 For bonded membrane applications, unless otherwise noted, refer to the following.

MEMBRANE / ADHESIVE COMBINATIONS			
MEMBRANE	ADHESIVE	METHOD	RATE
Tufdek Vinyl Decking	Tuff Trowel On	Wet lay (substrate)	1/16" U-notch trowel at 0.7-0.9 gal/square (115-140 ft ² /gal)
	Tuff Roll-On	Wet lay (substrate)	0.63 gal/square (160 ft ² /gal)
	Tuff Low VOC Contact Adhesive	Contact (both sides)	1.4-2.0 gal/square per surface (50-70 ft ² /gal per surface)
	Millennium KEE/PVC Single Ply Bonding Adhesive	Contact (both sides)	0.83 to 1.0 gal/square per surface (100-120 ft ² /gallon per surface)
	Sarnacol-2170 R	Contact (both sides)	To Substrate: 1.0 to 1.25 gal/square (80-100 ft ² /gallon) To Membrane Backside: 0.5 gal/square (200 ft ² /gallon)

- 16 RESERVED
- 17 RESERVED
- 18 RESERVED
- 19 "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609, FBC HVHZ 1620 or Roofing Application Standard RAS 128 for determination of design wind loads. ([Note 9](#) and [Note 10](#))

TABLE 1: WOOD DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER
NOT FOR USE IN HVHZ

System No.	Deck (Note 1, Note 12)	Roof Cover (Note 15)			MDP (psf)
	Type / Attachment	Joint Treatment	Membrane	Application	
W-1	Minimum 5/8-inch thick T&G plywood mechanically attached 6-inch o.c. with #8 wood screws and bonded with LePage Bulldog Grip PL 400 Heavy-Duty Sub-Floor Adhesive to wood structural supports spaced max. 16-inch o.c.	Plywood joints are filled / leveled with Tuff Deck-Patch	Tufdek Vinyl Decking	Tuff Trowel-On, Tuff Roll-On, Tuff Low VOC Contact Adhesive, Millennium KEE/PVC Single Ply Bonding Adhesive or Sarnacol-2170 R	-172.5 NO HVHZ

TABLE 2: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER

System No.	Deck (Note 1, Note 12)	Roof Cover (Note 15)		MDP (psf)
		Membrane	Application	
C-1.	Min. 2,500 psi structural concrete	Tufdek Vinyl Decking	Tuff Trowel On, Tuff Roll-On, Tuff Low VOC Contact Adhesive, Millennium KEE/PVC Single Ply Bonding Adhesive or Sarnacol-2170 R	-630.0*