

Form V-2: Hurricane Mitigation Measures and Secondary Characteristics, Range of Changes in Damage

INDIVIDUAL HURRICANE MITIGATION MEASURE AND SECONDARY CHARACTERISTICS		PERCENTAGE CHANGES IN DAMAGE ((REFERENCE DAMAGE RATE - MITIGATED DAMAGE RATE) / REFERENCE DAMAGE RATE) * 100										
		FRAME BUILDING					MASONRY BUILDING					
		WINDSPEED (MPH)*					WINDSPEED (MPH)*					
		60	85	110	135	160	60	85	110	135	160	
REFERENCE BUILDING		-	-	-	-	-	-	-	-	-	-	
ROOF CONFIGURATION	BRACED GABLE ENDS		10.8	15.0	13.8	9.2	5.1	10.7	14.9	13.8	9.4	6.0
	HIP ROOF		14.8	19.0	17.4	12.4	7.8	14.4	18.7	17.2	12.6	8.5
ROOF COVERING	METAL		6.0	4.9	3.0	1.7	0.3	6.0	4.7	2.9	1.6	0.5
	ASTM D7158 CLASS H SHINGLES		10.5	7.7	4.4	2.3	0.6	10.3	7.4	4.2	2.2	1.0
	MEMBRANE		9.8	14.3	11.4	2.2	0.6	9.8	14.5	11.3	2.1	1.0
	NAILING OF DECK		8d	9.4	18.8	21.1	15.7	8.3	9.3	18.6	20.7	16.2
ROOF-WALL STRONG TH	CLIPS		1.6	5.8	11.0	10.9	6.1	1.8	5.5	10.6	11.0	6.8
	STRAPS		2.1	7.3	13.4	13.4	8.2	2.3	6.9	13.3	13.8	8.9
WALL-FLOOR STRONG TH	TIES OR CLIPS		0.0	0.4	0.6	2.8	6.3	0.0	0.4	0.6	2.7	7.1
	STRAPS		0.0	0.8	2.2	6.1	12.1	0.0	0.8	2.1	6.2	12.6
WALL-FOUNDATION STRONG TH	LARGER ANCHORS OR CLOSER SPACING		0.0	0.4	0.6	2.8	6.3	-	-	-	-	-
	STRAPS		0.0	0.8	2.2	6.1	12.1	-	-	-	-	-
	VERTICAL REINFORCING		-	-	-	-	-	0.1	1.1	2.2	7.0	15.4
OPENING PROTECTION	WINDOW SHUTTERS	STRUCTURAL WOOD PANEL	8.5	13.2	12.4	9.1	7.0	8.2	12.9	11.8	9.1	7.7
		METAL	8.5	13.2	12.4	9.1	7.0	8.2	12.9	11.8	9.1	7.7
	DOOR AND SKYLIGHT COVERS		1.6	4.0	5.0	4.7	3.3	1.8	3.7	4.6	4.6	4.1
WINDOW, DOOR, SKYLIGHT STRENGTH	WINDOWS	IMPACT RATED	12.1	19.2	18.9	15.3	12.6	11.7	18.5	18.2	15.5	13.0
	ENTRY DOORS	MEETS WINDBORNE DEBRIS REQUIREMENTS	1.6	4.0	5.0	4.7	3.3	1.8	3.7	4.6	4.6	4.1
	GARAGE DOORS	MEETS WINDBORNE DEBRIS REQUIREMENTS	2.4	4.2	3.4	2.1	0.8	2.8	4.4	3.6	2.1	1.4
	SLIDING GLASS DOORS	MEETS WINDBORNE DEBRIS REQUIREMENTS	-0.2	-0.7	-0.8	-0.7	-0.3	-0.3	-0.6	-0.7	-0.7	-0.6
	SKYLIGHT	IMPACT RATED	1.3	1.6	1.4	1.0	0.3	1.4	1.6	1.3	0.9	0.6
HURRICANE MITIGATION MEASURES AND SECONDARY CHARACTERISTICS IN COMBINATION		PERCENTAGE CHANGES IN DAMAGE ((REFERENCE DAMAGE RATE - MITIGATED DAMAGE RATE) / REFERENCE DAMAGE RATE)*100										
		FRAME BUILDING					MASONRY BUILDING					
		WINDSPEED (MPH)*					WINDSPEED (MPH)*					
		60	85	110	135	160	60	85	110	135	160	
MITIGATED BUILDING		34.0	49.6	52.3	41.1	25.3	32.7	47.4	50.3	40.6	25.6	

*Windspeeds are one-minute sustained and 10-meter.