

### Form V-3: Mitigation Measures – Mean Damage Ratio (1 min)

INDIVIDUAL MITIGATION MEASURES		MEAN DAMAGE RATIO										LOSS COSTS		
		FRAME BUILDING					MASONRY BUILDING					FRAME BUILDING	MASONRY BUILDING	
		WIND SPEED (MPH)					WIND SPEED (MPH)					ACROSS ALL WINDSPEEDS		
		60	85	110	135	160	60	85	110	135	160			
<b>REFERENCE BUILDING</b>		6%	15%	39%	56%	67%	6%	14%	35%	47%	62%	\$13.593	\$13.150	
ROOF STRENGTH	BRACED GABLE ENDS	6%	15%	39%	56%	66%	6%	14%	35%	47%	61%	\$13.593	\$13.150	
	HIP ROOF	6%	14%	37%	50%	64%	6%	13%	34%	44%	59%	\$13.059	\$12.653	
ROOF COVERING	METAL	6%	15%	39%	56%	67%	6%	14%	35%	47%	62%	\$13.590	\$13.147	
	ASTM D7158 CLASS H SHINGLES (150 MPH)	6%	15%	39%	56%	67%	6%	14%	35%	47%	62%	\$13.590	\$13.147	
	MEMBRANE	6%	15%	39%	56%	67%	6%	14%	35%	47%	62%	\$13.593	\$13.150	
	NAILING OF DECK 8d	6%	9%	38%	60%	67%	6%	9%	30%	48%	63%	\$11.077	\$10.529	
ROOF- WALL STRENGTH	CLIPS	6%	15%	37%	48%	59%	6%	14%	35%	43%	54%	\$13.546	\$13.152	
	STRAPS	6%	15%	37%	46%	51%	6%	14%	35%	43%	53%	\$13.540	\$13.152	
WALL- FLOOR STRENGTH	TIES OR CLIPS	6%	15%	38%	54%	65%	-	-	-	-	-	\$13.542	-	
	STRAPS	6%	15%	37%	53%	64%	-	-	-	-	-	\$13.529	-	
WALL FOUNDATION STRENGTH	LARGER ANCHORS OR CLOSER SPACING	-	-	-	-	-	-	-	-	-	-	-	-	
	STRAPS	-	-	-	-	-	-	-	-	-	-	-	-	
	VERTICAL REINFORCING	-	-	-	-	-	6%	14%	35%	42%	48%	-	\$13.134	
OPENING PROTECTION	WINDOW SHUTTERS	STRUCT WOOD	6%	14%	36%	55%	67%	6%	14%	32%	46%	61%	\$13.348	\$12.917
		METAL	6%	14%	35%	54%	66%	6%	14%	31%	44%	61%	\$13.199	\$12.780
	DOOR AND SKYLIGHT COVERS		6%	15%	38%	56%	66%	6%	14%	35%	46%	61%	\$13.561	\$13.123
WINDOW DOOR, SKYLIGHT STRENGTH	IMPACT RATED		6%	14%	34%	50%	63%	6%	14%	30%	41%	58%	\$13.170	\$12.752
	ENTRY DOORS	MEETS WINDBORNE DEBRIS REQUIREMENTS	6%	15%	39%	56%	66%	6%	14%	35%	46%	61%	\$13.583	\$13.142
	GARAGE DOORS	MEETS WINDBORNE DEBRIS REQUIREMENTS	6%	12%	37%	56%	67%	6%	12%	33%	47%	62%	\$12.565	\$12.149
	SLIDING GLASS DOORS	MEETS WINDBORNE DEBRIS REQUIREMENTS	6%	15%	38%	55%	66%	6%	14%	35%	46%	61%	\$13.552	\$13.115
MITIGATION MEASURES IN COMBINATION		MEAN DAMAGE RATIO										LOSS COSTS		
		FRAME BUILDING					MASONRY BUILDING					FRAME BUILDING	MASONRY BUILDING	
		WIND SPEED (MPH)					WIND SPEED (MPH)					ACROSS ALL WINDSPEEDS		
		60	85	110	135	160	60	85	110	135	160			
MITIGATED BUILDING		6%	9%	28%	42%	50%	6%	9%	26%	39%	52%	\$10.644	\$10.346	