

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			
REFERENCE BUILDING		6%	14%	40%	56%	67%	6%	14%	36%	47%	62%	\$13.789	\$13.331	
ROOF STRENGTH	BRACED GABLE ENDS	6%	14%	40%	55%	66%	6%	14%	36%	47%	61%	\$13.789	\$13.331	
	HIP ROOF	6%	13%	38%	50%	64%	6%	13%	35%	43%	59%	\$13.248	\$12.827	
ROOF COVERING	METAL	6%	14%	40%	56%	67%	6%	14%	36%	47%	62%	\$13.752	\$13.295	
	RATED SHINGLES (110 MPH)	6%	14%	40%	56%	67%	6%	14%	36%	47%	62%	\$13.755	\$13.298	
	MEMBRANE	6%	14%	40%	56%	67%	6%	14%	36%	47%	62%	\$13.789	\$13.331	
	NAILING OF DECK 8d	6%	9%	40%	60%	67%	6%	8%	31%	48%	63%	\$11.297	\$10.720	
ROOF- WALL STRENGTH	CLIPS	6%	14%	38%	48%	59%	6%	14%	35%	43%	54%	\$13.739	\$13.332	
	STRAPS	6%	14%	38%	46%	51%	6%	14%	35%	43%	53%	\$13.733	\$13.332	
WALL- FLOOR STRENGTH	TIES OR CLIPS	6%	14%	38%	52%	64%	-	-	-	-	-	\$13.722	-	
	STRAPS	6%	14%	38%	52%	64%	-	-	-	-	-	\$13.722	-	
WALL FOUNDATION STRENGTH	LARGER ANCHORS OR CLOSER SPACING	-	-	-	-	-	-	-	-	-	-	-	-	
	STRAPS VERTICAL REINFORCING	-	-	-	-	-	6%	14%	35%	42%	48%	-	\$13.313	
OPENING PROTECTION	WINDOW SHUTTERS	PLYWOOD	6%	14%	37%	54%	67%	6%	13%	33%	45%	62%	\$13.529	\$13.074
		STEEL	6%	14%	36%	53%	66%	6%	13%	31%	44%	61%	\$13.370	\$12.936
		ENGINEERED	6%	13%	34%	51%	65%	6%	13%	30%	42%	60%	\$13.264	\$12.838
	DOOR AND SKYLIGHT COVERS	6%	14%	39%	55%	66%	6%	14%	35%	46%	61%	\$13.756	\$13.302	
WINDOW DOOR, SKYLIGHT STRENGTH		LAMINATED	6%	14%	35%	52%	65%	6%	13%	31%	43%	60%	\$13.386	\$12.951
		IMPACT GLASS	6%	14%	34%	50%	63%	6%	13%	30%	41%	58%	\$13.338	\$12.906
	ENTRY DOORS	HIGH STRENGTH	6%	14%	39%	55%	66%	6%	14%	35%	46%	61%	\$13.779	\$13.322
	GARAGE DOORS	HIGH STRENGTH	6%	12%	38%	55%	67%	6%	11%	34%	46%	62%	\$12.755	\$12.325
	SLIDING GLASS DOORS	HIGH STRENGTH	6%	14%	39%	55%	66%	6%	14%	35%	46%	61%	\$13.747	\$13.294
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%	8%	29%	41%	50%	6%	8%	27%	39%	52%	\$10.772	\$10.467	