

## 12. LARGE ISOLATED RETAIL BUILDING (LIRB)

### Typical Construction

- Flat roof with BUR and gravel or single-ply membrane roof; generally has a 2-3 ft parapet
- Open web joists and steel girders or joist girders supported by tall pipe columns
- Metal deck with rigid insulation or lightweight concrete fill slab
- Large windows on front side of building
- CMU walls, tilt-up concrete panels or metal stud walls covered with EIFS

Table 12

DOD*	Damage description	EXP	LB	UB
1	No visible damage	54	57	83
2	Loss of roofing material ( $\leq 20\%$ )	65	68	103
3	Uplift of some roof decking; significant loss of roofing material ( $>20\%$ ); loss of rooftop HVAC equipment	71	87	123
4	Long roof spans collapse downward	83	103	144
5	Uplift and removal of roof structure	85	114	157
6	Inward or outward collapse of exterior walls	98	118	158
7	Complete destruction of all or a large part of the building	110	147	201

\* DOD is degree of damage

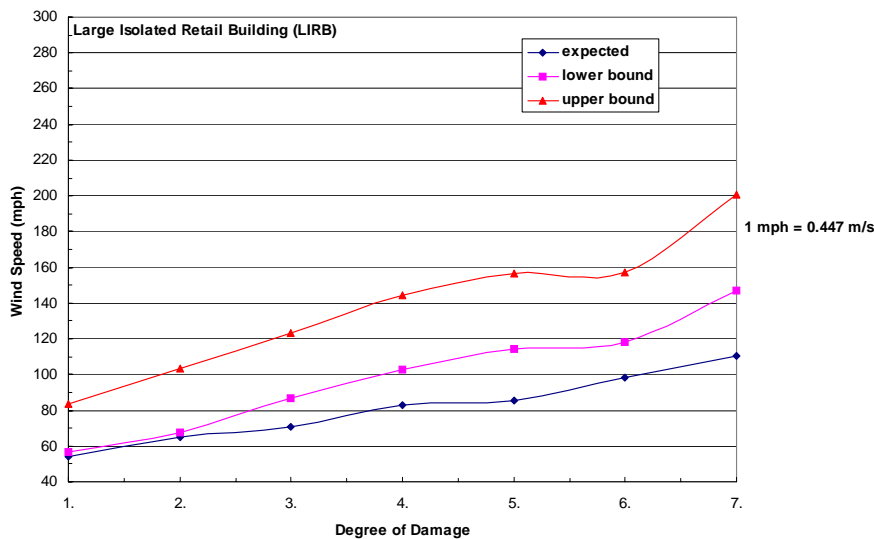


Figure 12. Wind Speed vs. Degree of Damage