

## 15. ELEMENTARY SCHOOL (ES)

### General Description

- These buildings are typically single story with flat roofs
- Building may contain a small gym or cafeteria with moderately long spans between supports
- Buildings have long interior hallways with bearing or non-bearing walls
- BUR, single-ply membrane or metal standing seam roof panels
- Metal or plywood roof decking or light-weight poured gypsum deck
- Steel or reinforced concrete structural framing
- Roof structure consists of open web steel joists bearing on exterior walls and steel interior girders
- Exterior walls constructed of metal studs with brick veneer, stucco or EIFS cladding; CMU or clay blocks with brick veneer; metal and glass curtain walls
- Walls can have a large percentage of window glass

Table 15

DOD*	Damage description	EXP	LB	UB
1	No visible damage	65	47	80
2	Loss of roofing material ( $\leq 20\%$ )	79	66	99
3	Uplift of metal roof decking; significant loss of roof covering ( $>20\%$ ); loss of rooftop HVAC equipment	87	71	106
4	Damage to or loss of wall cladding	99	85	118
5	Broken windows	101	82	121
6	Exterior doors fail	108	92	127
7	Uplift or collapse of roof structure	125	108	148
8	Collapse of bearing walls	139	117	162
9	Collapse of non-bearing exterior walls	153	130	180
10	Complete destruction of all or a large section of the building	176	152	203

\* DOD is degree of damage

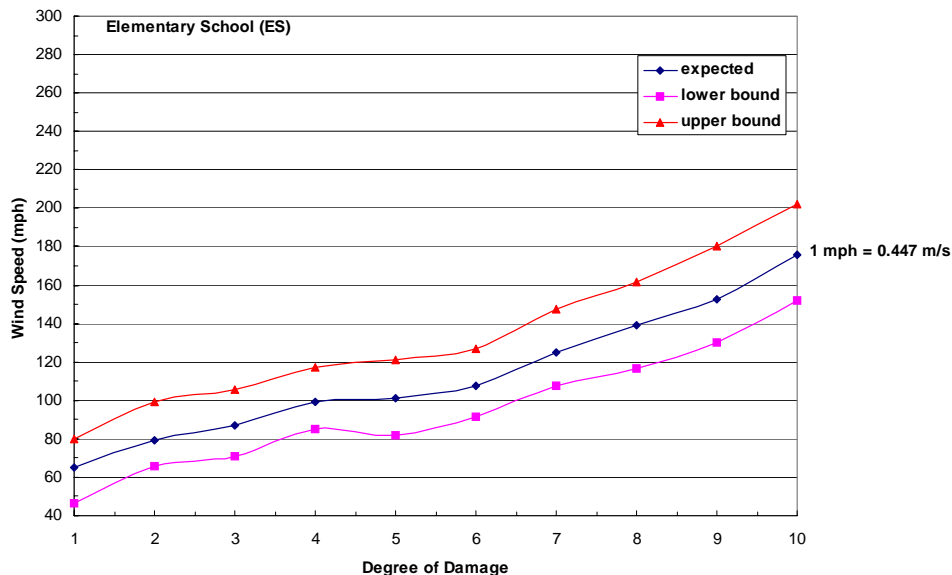


Figure 15. Wind Speed vs. Degree of Damage