

9. SMALL PROFESSIONAL BUILDING (SPB)
(Single story, less than 5000 ft²)

Typical Construction

- Flat, gable, hip, mansard or mono-slope roofs with or without parapet walls
- Asphalt shingles, tile, slate, metal panels, single-ply or built-up roof covering
- Light-frame steel construction, steel joists and formed metal decking
- Load-bearing masonry construction with steel or wood roof structure
- Timber post and beam construction
- Wood or metal stud walls, non-bearing masonry walls
- Metal or vinyl panels, stucco or EIFS cladding
- Skylights and/or clearstories

Table 9

DOD*	Damage description	EXP	LB	UB
1	No visible damage	65	54	81
2	Loss of roof covering ($\leq 20\%$)	78	65	98
3	Exterior doors fail	89	74	107
4	Broken windows, including clearstory windows or skylights	100	82	118
5	Collapsed facade or parapet walls	100	84	117
6	Uplift of some roof deck; significant loss of roof covering ($> 20\%$); loss of rooftop HVAC equipment	103	85	123
7	Uplift or collapse of entire roof structure	124	105	145
8	Collapse of exterior walls; closely spaced interior walls remain standing	144	123	165
9	Total destruction of entire building	157	148	200

* DOD is degree of damage

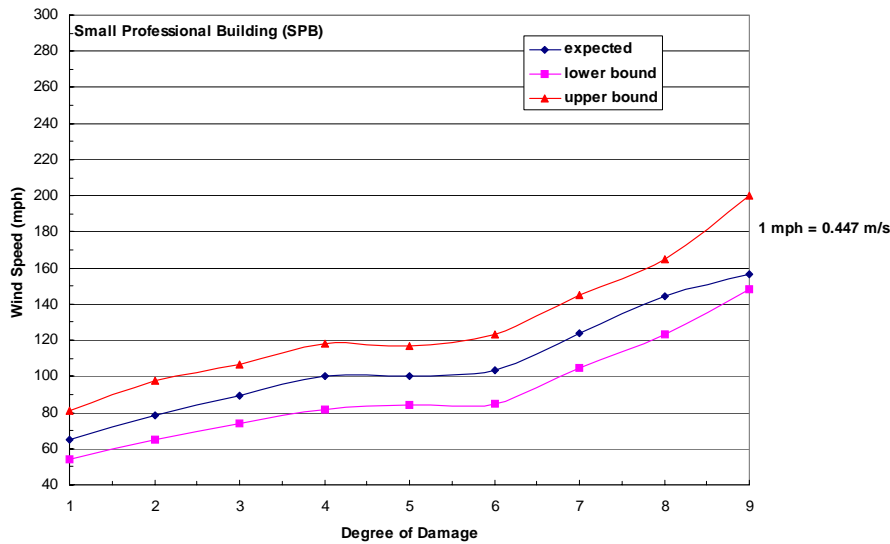


Figure 9. Wind Speed vs. Degree of Damage