	Fragility Functions			Repair/replacement cost (in USD)		
Component	DS1	DS2	DS3	DS1	DS2	DS3
RBS connections <= W27 one-sided	$0.0067 (0.4)^2$	Lignos et al. (2010), DS4	Lignos et al. (2010), DS5	10,300 (0.4)1	17,400 (0.310) ¹	29,300 (0.310) ¹
RBS connections <= W27 two-sided	0.0067 (0.4) ²	Lignos et al. (2010), DS4	Lignos et al. (2010), DS5	18,300 (0.4) ¹	30,000 (0.310) 1	52,300 (0.310) ¹
RBS connections => W30 one-sided	0.0067 (0.4) ²	Lignos et al. (2010), DS4	Lignos et al. (2010), DS5	10,300 (0.4) ¹	18,400 (0.310) ¹	32,400 (0.310) ¹
RBS connections => W30 two-sided	0.0067 (0.4) ²	Lignos et al. (2010), DS4	Lignos et al. (2010), DS5	18,300 (0.4) ¹	32,000 (0.310) ¹	58,500 (0.310) ¹
Steel column base	B1035.022, DS1	B1035.022, DS2	B1035.022, DS3	B1035.022, DS1	B1035.022, DS2	B1035.022, DS3

Table 1. Adopted fragility and consequence function for structural components

¹These are cases where the median values were obtained from the consequence estimation tool spreadsheet, and the dispersion were obtained from PACT where available or assumed to be 0.4 ²It is assumed that connections have a 25% probability of being inspected upon the onset of partitions incurring damage state 2. These values were obtained from Retamales et al (2013).

References

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