

COLOMBIA: Summary of Building Types, Vulnerability to Collapse and Occupancy

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WHE Construction Type or Material <i>(refer to Table 2 for suggested category/res)</i>	Description of construction type (type of load- bearing structure) <i>(refer to Tables 2 and 3 for suggested categories and sources of data to help answer this question)</i>	Estimate of probability of collapse (%) of the building type when subjected to the specified shaking intensity (expressed as a range) <i>(refer to instructions page 5)</i> (3) MMI / EMS / MSK				Fraction of population who LIVES in this building type <i>(refer to instructions for help in estimating)</i>		Fraction of WORKING population who WORK in this building type <i>(refer to instructions on page 5 for help in estimating)</i>		Peak average number of occupants per building <i>(refer to instructions on page 5 for help in estimating)</i>
		IX (~0.65-1.24g)	VIII (~0.34-0.65g)	VII (~0.18-0.34g)	VI (~0.092-.18g)	urban areas (4)	rural areas (5)	urban areas (6)	rural areas (7)	
4	-mud walls with horizontal wood elements	100	80	50	20	2	35	5	40	6N
9	unreinforced brick masonry in cement mortar	100	80	50	10	30	30	30	15	6N
10	-confined brick/block masonry with concrete posts/tie columns/beams	60	40	15	5	10	2	5	5	5N
14	-concrete block masonry designed for gravity loads only	100	80	40	10	15	3	30	5	50N
15	-concrete block masonry designed with seismic features (diff. ages)	80	40	20	0	15	1	10	5	50N
16	-moment resisting concrete frame with unreinforced masonry infill	40	20	10	5	15	0	10	5	100N
19	-moment resisting frame with concrete shear walls-dual system	20	10	5	0	5	0	0	0	160N
21	-shear walls cast in-situ	15	10	0	0	1	0	0	0	180N
23	-moment resisting steel frame with brick masonry partitions	25	10	5	0	1	0	0	0	50N

Refer to Part 3 (next 3 pages) for tables and links that may help you fill out this form.

If you do not know some of the answers please indicate so with a dash ---- or ?. Use 0 only when you know the number or percent IS 0.

Additional sources used:

http://www.tesisenred.net/TESIS_UPC/AVAILABLE/TDX-0713107-092432/01Dbr01de01.pdf

<http://revistaing.uniandes.edu.co/pdf/rev10art2.pdf?ri-bf189ab5deee6d22569a1d58cdb9ee46>

http://www.dane.gov.co/censo/files/boletines/bol_ampliado.pdf