

Distribution of Houses by Predominant Materials of Roof and Wall and Level of Damage Risk

Table No. : HR 14

State : HARYANA

ROHTAK

Wall / Roof		Census Houses		Level of Risk under									Flood Prone Area in %
		No. of Houses	%	EQ Zone				Wind Velocity m/s					
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
				53.9	46.1			10.1	89.9			13.1	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	4,273	1.5										
	Urban	1,972	0.7										
	Total	6,245	2.2		<i>H</i>	<i>M</i>		<i>VH</i>	<i>H</i>			<i>VH</i>	
A2 - Stone Wall not packed with mortar	Rural	1,918	0.7										
	Urban	1,498	0.5										
	Total	3,416	1.2		<i>H</i>	<i>M</i>		<i>H</i>	<i>M</i>			<i>VH</i>	
Total - Category - A		9,661	3.5										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	151,365	54.9										
	Urban	109,583	39.7										
	Total	260,948	94.6		<i>M</i>	<i>L</i>		<i>H</i>	<i>M</i>			<i>H/M</i>	
Total - Category - B		260,948	94.6										
C1 - Concrete Wall	Rural	1,126	0.4										
	Urban	2,442	0.9										
	Total	3,568	1.3		<i>L</i>	<i>VL</i>		<i>L</i>	<i>VL</i>			<i>L/ VL</i>	
C2 - Wood wall	Rural	156	0.1										
	Urban	80	-										
	Total	236	0.1		<i>L</i>	<i>VL</i>		<i>VH</i>	<i>H</i>			<i>H</i>	
Total - Category - C		3,804	1.4										
X - Other Materials	Rural	842	0.3										
	Urban	539	0.2										
	Total	1,381	0.5		<i>VL</i>	<i>VL</i>		<i>VH</i>	<i>H</i>			<i>VH</i>	
Total - Category - X		1,381	0.5										
TOTAL HOUSES*		275,794											
ROOF													
R1 - Light Weight Sloping Roof	Rural	61,925	22.5										
	Urban	12,065	4.4										
	Total	73,990	26.9		<i>M</i>	<i>L</i>		<i>VH</i>	<i>VH</i>			<i>VH</i>	
R2 - Heavy Weight Sloping Roof	Rural	52,914	19.2										
	Urban	32,804	11.9										
	Total	85,718	31.1		<i>M</i>	<i>L</i>		<i>H</i>	<i>M</i>			<i>H</i>	
R3 - Flat Roof	Rural	44,841	16.3										
	Urban	71,245	25.8										
	Total	116,086	42.1		<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		275,794											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 537 mm

Housing Category : Wall Types

Category - A : Buildings in field-stone, rural structures, unburnt brick houses, clay houses

Category - B : Ordinary brick building; buildings of the large block & prefabricated type, half-timbered structures, building in natural hewn stone

Category - C : Reinforced building, well built wooden structures

Category - X : Other materials not covered in A,B,C. These are generally light.

Notes : 1. Flood prone area includes that protected area which may have more severe damage under failure of protection works. In some other areas the local damage may be severe under heavy rains and choked drainage.

2. Damage Risk for wall types is indicated assuming heavy flat roof in categories A, B and C (Reinforced Concrete) building

3. Source of Housing Data : Census of Housing, GOI, 2011

Housing Category : Roof Type

Category - R1 - Light Weight (Grass, Thatch, Bamboo, Wood, Mud, Plastic, Polythene, GI Metal, Asbestos Sheets, Other Materials)

Category - R2 - Heavy Weight (Tiles, Stone/Slate)

Category - R3 - Flat Roof (Brick, Concrete)

EQ Zone V : Very High Damage Risk Zone (MSK > IX)

EQ Zone IV : High Damage Risk Zone (MSK VIII)

EQ Zone III : Moderate Damage Risk Zone (MSK VII)

EQ Zone II : Low Damage Risk Zone (MSK < VI)

Level of Risk : VH = Very High; H = High;

M = Moderate; L = Low; VL = Very Low

* Total No.of Houses excluding Vacant/Locked Houses