

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

Table No. : HR 10

State : HARYANA

FATEHABAD

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 %						65.7	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	11,197	4.6										
	Urban	1,952	0.8										
	Total	13,149	5.4					<i>M</i>	<i>L</i>	<i>VH</i>	<i>H</i>	<i>VH</i>	
A2 - Stone Wall not packed with mortar	Rural	1,097	0.5										
	Urban	800	0.3										
	Total	1,897	0.8					<i>M</i>	<i>L</i>	<i>H</i>	<i>M</i>	<i>VH</i>	
Total - Category - A		15,046	6.2										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	175,733	72.5										
	Urban	46,222	19.1										
	Total	221,955	91.6					<i>L</i>	<i>VL</i>	<i>H</i>	<i>M</i>	<i>H/M</i>	
Total - Category - B		221,955	91.5										
C1 - Concrete Wall	Rural	1,847	0.8										
	Urban	692	0.3										
	Total	2,539	1.1					<i>VL</i>	<i>VL</i>	<i>L</i>	<i>VL</i>	<i>L/ VL</i>	
C2 - Wood wall	Rural	94	-										
	Urban	30	-										
	Total	124	-					<i>VL</i>	<i>VL</i>	<i>VH</i>	<i>H</i>	<i>H</i>	
Total - Category - C		2,663	1.1										
X - Other Materials	Rural	2,344	1.0										
	Urban	496	0.2										
	Total	2,840	1.2					<i>VL</i>	<i>VL</i>	<i>VH</i>	<i>H</i>	<i>VH</i>	
Total - Category - X		2,840	1.2										
TOTAL HOUSES*		242,504											

ROOF												
R1 - Light Weight Sloping Roof	Rural	70,437	29.0									
	Urban	8,543	3.5									
	Total	78,980	32.5					<i>L</i>	<i>VL</i>	<i>VH</i>	<i>VH</i>	<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	13,594	5.6									
	Urban	2,071	0.9									
	Total	15,665	6.5					<i>L</i>	<i>VL</i>	<i>H</i>	<i>M</i>	<i>H</i>
R3 - Flat Roof	Rural	108,281	44.7									
	Urban	39,578	16.3									
	Total	147,859	61.0					<i>Damage Risk as per that for the Wall supporting it</i>				
TOTAL HOUSES*		242,504										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 280 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