

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

Table No. : HR 11

State : HARYANA

SIRSA

Wall / Roof		Census Houses		Level of Risk under									
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %	
				V	IV	III	II	55 & 50	47	44 & 39	33		
		Area in %				Area in %							
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	29,022	9.1										
	Urban	3,090	1.0										
	Total	32,112	10.1					<i>M</i>	<i>L</i>		<i>H</i>		
A2 - Stone Wall not packed with mortar	Rural	1,421	0.4										
	Urban	1,904	0.6										
	Total	3,325	1.0					<i>M</i>	<i>L</i>		<i>M</i>		
Total - Category - A		35,437	11.1										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	197,367	62.1										
	Urban	75,169	23.6										
	Total	272,536	85.7					<i>L</i>	<i>VL</i>		<i>M</i>		
Total - Category - B		272,536	85.7										
C1 - Concrete Wall	Rural	1,116	0.4										
	Urban	3,441	1.1										
	Total	4,557	1.5					<i>VL</i>	<i>VL</i>		<i>VL</i>		
C2 - Wood wall	Rural	159	-										
	Urban	74	-										
	Total	233	-					<i>VL</i>	<i>VL</i>		<i>H</i>		
Total - Category - C		4,790	1.5										
X - Other Materials	Rural	4,116	1.3										
	Urban	1,128	0.4										
	Total	5,244	1.7					<i>VL</i>	<i>VL</i>		<i>H</i>		
Total - Category - X		5,244	1.6										
TOTAL HOUSES*		318,007											
ROOF													
R1 - Light Weight Sloping Roof	Rural	59,615	18.7										
	Urban	9,111	2.9										
	Total	68,726	21.6					<i>L</i>	<i>VL</i>		<i>VH</i>		
R2 - Heavy Weight Sloping Roof	Rural	26,221	8.2										
	Urban	2,972	0.9										
	Total	29,193	9.1					<i>L</i>	<i>VL</i>		<i>M</i>		
R3 - Flat Roof	Rural	147,365	46.3										
	Urban	72,723	22.9										
	Total	220,088	69.2					<i>Damage Risk as per that for the Wall supporting it</i>					
TOTAL HOUSES*		318,007											

Probable Maximum Precipitation at a Station of the district in 24 hrs is 300 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