

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

Table No. : PN 18

State : PUNJAB

SAHIBZADA AJIT SINGH NAGAR

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 %								
				100				100				72.3
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	6,685	2.6									
	Urban	3,388	1.3									
	Total	10,073	3.9		<i>H</i>			<i>VH</i>				<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	1,047	0.4									
	Urban	788	0.3									
	Total	1,835	0.7		<i>H</i>			<i>H</i>				<i>VH</i>
Total - Category - A		11,908	4.7									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	90,139	35.3									
	Urban	130,406	51.1									
	Total	220,545	86.4		<i>M</i>			<i>H</i>				<i>H/M</i>
Total - Category - B		220,545	86.3									
C1 - Concrete Wall	Rural	7,830	3.1									
	Urban	11,133	4.4									
	Total	18,963	7.5		<i>L</i>			<i>L</i>				<i>L/VL</i>
C2 - Wood wall	Rural	99	-									
	Urban	95	-									
	Total	194	-		<i>L</i>			<i>VH</i>				<i>H</i>
Total - Category - C		19,157	7.5									
X - Other Materials	Rural	2,152	0.8									
	Urban	1,670	0.7									
	Total	3,822	1.5		<i>VL</i>			<i>VH</i>				<i>VH</i>
Total - Category - X		3,822	1.5									
TOTAL HOUSES*		255,432										

ROOF												
R1 - Light Weight Sloping Roof	Rural	29,958	11.7									
	Urban	11,799	4.6									
	Total	41,757	16.3		<i>M</i>			<i>VH</i>				<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	12,494	4.9									
	Urban	4,981	2.0									
	Total	17,475	6.9		<i>M</i>			<i>H</i>				<i>H</i>
R3 - Flat Roof	Rural	65,500	25.6									
	Urban	130,700	51.2									
	Total	196,200	76.8		<i>Damage Risk as per that for the Wall supporting it</i>							
TOTAL HOUSES*		255,432										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 400 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