

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

Table No. : PN 15

State : PUNJAB

AMRITSAR

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 %				
				100				100				84.4
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	16,622	2.7									
	Urban	6,501	1.1									
	Total	23,123	3.8		<i>H</i>			<i>VH</i>				<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	3,357	0.5									
	Urban	2,735	0.4									
	Total	6,092	0.9		<i>H</i>			<i>H</i>				<i>VH</i>
Total - Category - A		29,215	4.8									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	220,036	35.9									
	Urban	309,632	50.6									
	Total	529,668	86.5		<i>M</i>			<i>H</i>				<i>H/M</i>
Total - Category - B		529,668	86.5									
C1 - Concrete Wall	Rural	16,682	2.7									
	Urban	28,113	4.6									
	Total	44,795	7.3		<i>L</i>			<i>L</i>				<i>L/VL</i>
C2 - Wood wall	Rural	252	-									
	Urban	499	0.1									
	Total	751	0.1		<i>L</i>			<i>VH</i>				<i>H</i>
Total - Category - C		45,546	7.4									
X - Other Materials	Rural	4,736	0.8									
	Urban	2,957	0.5									
	Total	7,693	1.3		<i>VL</i>			<i>VH</i>				<i>VH</i>
Total - Category - X		7,693	1.3									
TOTAL HOUSES*		612,122										

ROOF												
R1 - Light Weight Sloping Roof	Rural	42,418	6.9									
	Urban	33,158	5.4									
	Total	75,576	12.3		<i>M</i>			<i>VH</i>				<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	73,017	11.9									
	Urban	18,716	3.1									
	Total	91,733	15.0		<i>M</i>			<i>H</i>				<i>H</i>
R3 - Flat Roof	Rural	146,250	23.9									
	Urban	298,563	48.8									
	Total	444,813	72.7		<i>Damage Risk as per that for the Wall supporting it</i>							
TOTAL HOUSES*		612,122										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 480 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