

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

Table No. : GJ 18

State : GUJARAT

DOHAD

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	194,319	54.2									
	Urban	6,820	1.9									
	Total	201,139	56.1					<i>M</i>	<i>L</i>			<i>M</i>
A2 - Stone Wall not packed with mortar	Rural	18,998	5.3									
	Urban	824	0.2									
	Total	19,822	5.5					<i>M</i>	<i>L</i>			<i>L</i>
Total - Category - A		220,961	61.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	83,301	23.2									
	Urban	34,493	9.6									
	Total	117,794	32.8					<i>L</i>	<i>VL</i>			<i>L</i>
Total - Category - B		117,794	32.9									
C1 - Concrete Wall	Rural	1,056	0.3									
	Urban	1,040	0.3									
	Total	2,096	0.6					<i>VL</i>	<i>VL</i>			<i>VL</i>
C2 - Wood wall	Rural	4,207	1.2									
	Urban	112	-									
	Total	4,319	1.2					<i>VL</i>	<i>VL</i>			<i>M</i>
Total - Category - C		6,415	1.8									
X - Other Materials	Rural	12,512	3.5									
	Urban	890	0.2									
	Total	13,402	3.7					<i>VL</i>	<i>VL</i>			<i>M</i>
Total - Category - X		13,402	3.7									
TOTAL HOUSES*		358,572										

ROOF												
R1 - Light Weight Sloping Roof	Rural	11,503	3.2									
	Urban	4,885	1.4									
	Total	16,388	4.6					<i>L</i>	<i>VL</i>			<i>H</i>
R2 - Heavy Weight Sloping Roof	Rural	272,558	76.0									
	Urban	12,012	3.3									
	Total	284,570	79.3					<i>L</i>	<i>VL</i>			<i>L</i>
R3 - Flat Roof	Rural	30,332	8.5									
	Urban	27,282	7.6									
	Total	57,614	16.1					Damage Risk as per that for the Wall supporting it				
TOTAL HOUSES*		358,572										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sq.km. is 541 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