

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

Table No. : GJ 10

State : GUJARAT

JAMNAGAR

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 %				
					42.9	57.1		99.7		.3		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	25,748	4.6									
	Urban	8,265	1.5									
	Total	34,013	6.1		H	M		VH		M		
A2 - Stone Wall not packed with mortar	Rural	25,200	4.5									
	Urban	6,077	1.1									
	Total	31,277	5.6		H	M		H		L		
Total - Category - A		65,290	11.7									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	234,614	41.9									
	Urban	220,119	39.4									
	Total	454,733	81.3		M	L		H		L		
Total - Category - B		454,733	81.3									
C1 - Concrete Wall	Rural	10,938	2.0									
	Urban	14,027	2.5									
	Total	24,965	4.5		L	VL		L		VL		
C2 - Wood wall	Rural	1,643	0.3									
	Urban	1,734	0.3									
	Total	3,377	0.6		L	VL		VH		M		
Total - Category - C		28,342	5.1									
X - Other Materials	Rural	6,250	1.1									
	Urban	4,668	0.8									
	Total	10,918	1.9		VL	VL		VH		M		
Total - Category - X		10,918	2.0									
TOTAL HOUSES*		559,283										

ROOF												
R1 - Light Weight Sloping Roof	Rural	25,870	4.6									
	Urban	28,361	5.1									
	Total	54,231	9.7		M	L		VH		H		
R2 - Heavy Weight Sloping Roof	Rural	154,993	27.7									
	Urban	57,612	10.3									
	Total	212,605	38.0		M	L		H		L		
R3 - Flat Roof	Rural	123,530	22.1									
	Urban	168,917	30.2									
	Total	292,447	52.3	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		559,283										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sq.km. is **928 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



Building Materials & Technology Promotion Council

Peer Group, MoHUA, GOI