

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

**Table No. : MH 26**

**State : MAHARASHTRA**

**AHMADNAGAR**

Wall / Roof		Census Houses		Level of Risk under								Flood Prone Area in %
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
						97.2	2.8			100		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	175,537	14.8									
	Urban	27,991	2.4									
	Total	203,528	17.2			M	L			M		
A2 - Stone Wall not packed with mortar	Rural	48,388	4.1									
	Urban	6,652	0.6									
	Total	55,040	4.7			M	L			L		
Total - Category - A		258,568	21.9									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	529,980	44.8									
	Urban	145,622	12.3									
	Total	675,602	57.1			L	VL			L		
Total - Category - B		675,602	57.1									
C1 - Concrete Wall	Rural	78,570	6.6									
	Urban	41,502	3.5									
	Total	120,072	10.1			VL	VL			VL		
C2 - Wood wall	Rural	8,820	0.7									
	Urban	2,160	0.2									
	Total	10,980	0.9			VL	VL			M		
Total - Category - C		131,052	11.1									
X - Other Materials	Rural	98,243	8.3									
	Urban	18,970	1.6									
	Total	117,213	9.9			VL	VL			M		
Total - Category - X		117,213	9.9									
TOTAL HOUSES*		1,182,435										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	691,366	58.5									
	Urban	109,611	9.3									
	<b>Total</b>	<b>800,977</b>	<b>67.8</b>			L	VL			H		
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	112,905	9.5									
	Urban	13,406	1.1									
	<b>Total</b>	<b>126,311</b>	<b>10.6</b>			L	VL			L		
<b>R3 - Flat Roof</b>	Rural	135,267	11.4									
	Urban	119,880	10.1									
	<b>Total</b>	<b>255,147</b>	<b>21.5</b>	<i>Damage Risk as per that for the Wall supporting it</i>								
<b>TOTAL HOUSES*</b>		<b>1,182,435</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **390 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