

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

**Table No. : AS 09**

**State : ASSAM**

**DHEMAJI**

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 %				
				100				84.6		15.4		61.9
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	1,692	0.8									
	Urban	340	0.2									
	Total	2,032	1.0	VH				VH		M		VH
A2 - Stone Wall not packed with mortar	Rural	536	0.2									
	Urban	135	0.1									
	Total	671	0.3	VH				H		L		VH
Total - Category - A		2,703	1.2									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	14,347	6.4									
	Urban	6,197	2.8									
	Total	20,544	9.2	H				H		L		H/M
Total - Category - B		20,544	9.2									
C1 - Concrete Wall	Rural	610	0.3									
	Urban	250	0.1									
	Total	860	0.4	M				L		VL		L/VL
C2 - Wood wall	Rural	645	0.3									
	Urban	326	0.1									
	Total	971	0.4	M				VH		M		H
Total - Category - C		1,831	0.8									
X - Other Materials	Rural	189,831	85.3									
	Urban	7,751	3.5									
	Total	197,582	88.8	M				VH		M		VH
Total - Category - X		197,582	88.7									
TOTAL HOUSES*		222,660										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	205,817	92.4									
	Urban	13,434	6.0									
	<b>Total</b>	<b>219,251</b>	<b>98.4</b>	M				VH		H		VH
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	1,084	0.5									
	Urban	532	0.2									
	<b>Total</b>	<b>1,616</b>	<b>0.7</b>	H				H		L		H
<b>R3 - Flat Roof</b>	Rural	760	0.3									
	Urban	1,033	0.5									
	<b>Total</b>	<b>1,793</b>	<b>0.8</b>									
<b>TOTAL HOUSES*</b>		<b>222,660</b>		<i>Damage Risk as per that for the Wall supporting it</i>								

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **561 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