

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

**Table No. : AS 10**

**State : ASSAM**

**TINSUKIA**

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					90.5		9.5		1.6
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	7,557	2.1										
	Urban	1,936	0.5										
	Total	9,493	2.6	VH					VH		M		VH
A2 - Stone Wall not packed with mortar	Rural	1,923	0.5										
	Urban	1,181	0.3										
	Total	3,104	0.8	VH					H		L		VH
Total - Category - A		12,597	3.5										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	72,290	20.0										
	Urban	39,853	11.0										
	Total	112,143	31.0	H					H		L		H/M
Total - Category - B		112,143	31.0										
C1 - Concrete Wall	Rural	2,895	0.8										
	Urban	5,945	1.6										
	Total	8,840	2.4	M					L		VL		L/VL
C2 - Wood wall	Rural	3,436	1.0										
	Urban	2,581	0.7										
	Total	6,017	1.7	M					VH		M		H
Total - Category - C		14,857	4.1										
X - Other Materials	Rural	192,021	53.1										
	Urban	29,990	8.3										
	Total	222,011	61.4	M					VH		M		VH
Total - Category - X		222,011	61.4										
TOTAL HOUSES*		361,608											

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	273,923	75.8									
	Urban	66,877	18.5									
	<b>Total</b>	<b>340,800</b>	<b>94.3</b>	M				VH		H		VH
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	3,870	1.1									
	Urban	2,571	0.7									
	<b>Total</b>	<b>6,441</b>	<b>1.8</b>	H				H		L		H
<b>R3 - Flat Roof</b>	Rural	2,329	0.6									
	Urban	12,038	3.3									
	<b>Total</b>	<b>14,367</b>	<b>3.9</b>									
				<i>Damage Risk as per that for the Wall supporting it</i>								
<b>TOTAL HOUSES*</b>		<b>361,608</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **565 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