

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

**Table No. : AS 15**

**State : ASSAM**

**KARBI ANGLONG**

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					100				10.5
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	12,858	5.4										
	Urban	1,079	0.5										
	Total	13,937	5.9	VH					VH				VH
A2 - Stone Wall not packed with mortar	Rural	967	0.4										
	Urban	555	0.2										
	Total	1,522	0.6	VH					H				VH
Total - Category - A		15,459	6.5										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	15,134	6.3										
	Urban	9,195	3.8										
	Total	24,329	10.1	H					H				H/M
Total - Category - B		24,329	10.2										
C1 - Concrete Wall	Rural	2,395	1.0										
	Urban	2,520	1.1										
	Total	4,915	2.1	M					L				L/VL
C2 - Wood wall	Rural	2,912	1.2										
	Urban	485	0.2										
	Total	3,397	1.4	M					VH				H
Total - Category - C		8,312	3.5										
X - Other Materials	Rural	171,824	71.9										
	Urban	19,171	8.0										
	Total	190,995	79.9	M					VH				VH
Total - Category - X		190,995	79.9										
TOTAL HOUSES*		239,095											

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	201,552	84.3									
	Urban	30,437	12.7									
	<b>Total</b>	<b>231,989</b>	<b>97.0</b>	M				VH				VH
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	3,049	1.3									
	Urban	586	0.2									
	<b>Total</b>	<b>3,635</b>	<b>1.5</b>	H				H				H
<b>R3 - Flat Roof</b>	Rural	1,489	0.6									
	Urban	1,982	0.8									
	<b>Total</b>	<b>3,471</b>	<b>1.4</b>	<i>Damage Risk as per that for the Wall supporting it</i>								
<b>TOTAL HOUSES*</b>		<b>239,095</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **650 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