

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

**Table No. : AS 23**

**State : ASSAM**

**KAMRUP METROPOLITAN**

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					
<b>WALL</b>													
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	2,558	0.7										
	Urban	4,913	1.3										
	<b>Total</b>	<b>7,471</b>	<b>2.0</b>	VH				VH					
<b>A2 - Stone Wall not packed with mortar</b>	Rural	373	0.1										
	Urban	5,222	1.4										
	<b>Total</b>	<b>5,595</b>	<b>1.5</b>	VH				H					
<b>Total - Category - A</b>		<b>13,066</b>	<b>3.4</b>										
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	17,052	4.4										
	Urban	187,682	48.7										
	<b>Total</b>	<b>204,734</b>	<b>53.1</b>	H				H					
<b>Total - Category - B</b>		<b>204,734</b>	<b>53.2</b>										
<b>C1 - Concrete Wall</b>	Rural	2,104	0.5										
	Urban	51,631	13.4										
	<b>Total</b>	<b>53,735</b>	<b>13.9</b>	M				L					
<b>C2 - Wood wall</b>	Rural	1,332	0.3										
	Urban	3,789	1.0										
	<b>Total</b>	<b>5,121</b>	<b>1.3</b>	M				VH					
<b>Total - Category - C</b>		<b>58,856</b>	<b>15.3</b>										
<b>X - Other Materials</b>	Rural	34,198	8.9										
	Urban	74,250	19.3										
	<b>Total</b>	<b>108,448</b>	<b>28.2</b>	M				VH					
<b>Total - Category - X</b>		<b>108,448</b>	<b>28.2</b>										
<b>TOTAL HOUSES*</b>		<b>385,104</b>											

<b>ROOF</b>													
<b>R1 - Light Weight Sloping Roof</b>	Rural	55,373	14.4										
	Urban	222,106	57.7										
	<b>Total</b>	<b>277,479</b>	<b>72.1</b>	M				VH					
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	784	0.2										
	Urban	11,391	3.0										
	<b>Total</b>	<b>12,175</b>	<b>3.2</b>	H				H					
<b>R3 - Flat Roof</b>	Rural	1,460	0.4										
	Urban	93,990	24.4										
	<b>Total</b>	<b>95,450</b>	<b>24.8</b>	Damage Risk as per that for the Wall supporting it									
<b>TOTAL HOUSES*</b>		<b>385,104</b>											

Probable Maximum Precipitation at a Station of the district in one day for areal extent of 1000 sq.km. is 529 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