

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

### ASSAM

Wall / Roof		Census Houses		Level of Risk under										
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %		
				V	IV	III	II	55 & 50	47	44 & 39	33			
				Area in %				Area in %						
<b>STATE - ASSAM</b>				100						83.7	12.4	3.9		14.7
<b>WALL</b>														
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	239,983	2.7											
	Urban	30,313	0.3											
	<b>Total</b>	<b>270,296</b>	<b>3.0</b>	VH					VH	H	M			VH
<b>A2 - Stone Wall not packed with mortar</b>	Rural	38,911	0.4											
	Urban	24,510	0.3											
	<b>Total</b>	<b>63,421</b>	<b>0.7</b>	VH					H	M	L			VH
<b>Total - Category - A</b>		<b>333,717</b>	<b>3.8</b>											
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	1,274,874	14.6											
	Urban	670,587	7.7											
	<b>Total</b>	<b>1,945,461</b>	<b>22.3</b>	H					H	M	L			H/M
<b>Total - Category - B</b>		<b>1,945,461</b>	<b>22.2</b>											
<b>C1 - Concrete Wall</b>	Rural	129,355	1.5											
	Urban	137,082	1.6											
	<b>Total</b>	<b>266,437</b>	<b>3.1</b>	M					L	VL	VL			L/VL
<b>C2 - Wood wall</b>	Rural	123,233	1.4											
	Urban	31,574	0.4											
	<b>Total</b>	<b>154,807</b>	<b>1.8</b>	M					VH	H	M			H
<b>Total - Category - C</b>		<b>421,244</b>	<b>4.8</b>											
<b>X - Other Materials</b>	Rural	5,593,922	63.9											
	Urban	462,363	5.3											
	<b>Total</b>	<b>6,056,285</b>	<b>69.2</b>	M					VH	H	M			VH
<b>Total - Category - X</b>		<b>6,056,285</b>	<b>69.2</b>											
<b>TOTAL HOUSES*</b>		<b>8,756,707</b>												

<b>ROOF</b>														
<b>R1 - Light Weight Sloping Roof</b>	Rural	7,228,611	82.5											
	Urban	1,079,682	12.3											
	<b>Total</b>	<b>8,308,293</b>	<b>94.8</b>	M					VH	VH	H			VH
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	111,015	1.3											
	Urban	46,634	0.5											
	<b>Total</b>	<b>157,649</b>	<b>1.8</b>	H					H	M	L			H
<b>R3 - Flat Roof</b>	Rural	60,652	0.7											
	Urban	230,113	2.6											
	<b>Total</b>	<b>290,765</b>	<b>3.3</b>											
<i>Damage Risk as per that for the Wall supporting it</i>														
<b>TOTAL HOUSES*</b>		<b>8,756,707</b>												

#### 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