

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

**Table No. : MG 06**

**State : MEGHALAYA**

**EAST KHASI HILLS**

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	Flood Prone Area in %
				Area in %				Area in %				
				100				100				
<b>WALL</b>												
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	3,919	2.0									
	Urban	3,684	1.9									
	<b>Total</b>	<b>7,603</b>	<b>3.9</b>	VH				VH				
<b>A2 - Stone Wall not packed with mortar</b>	Rural	3,520	1.8									
	Urban	2,274	1.2									
	<b>Total</b>	<b>5,794</b>	<b>3.0</b>	VH				H				
<b>Total - Category - A</b>		<b>13,397</b>	<b>6.8</b>									
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	17,559	8.9									
	Urban	18,196	9.2									
	<b>Total</b>	<b>35,755</b>	<b>18.1</b>	H				H				
<b>Total - Category - B</b>		<b>35,755</b>	<b>18.1</b>									
<b>C1 - Concrete Wall</b>	Rural	14,582	7.4									
	Urban	48,091	24.3									
	<b>Total</b>	<b>62,673</b>	<b>31.7</b>	M				L				
<b>C2 - Wood wall</b>	Rural	36,790	18.6									
	Urban	16,713	8.5									
	<b>Total</b>	<b>53,503</b>	<b>27.1</b>	M				VH				
<b>Total - Category - C</b>		<b>116,176</b>	<b>58.8</b>									
<b>X - Other Materials</b>	Rural	23,877	12.1									
	Urban	8,373	4.2									
	<b>Total</b>	<b>32,250</b>	<b>16.3</b>	M				VH				
<b>Total - Category - X</b>		<b>32,250</b>	<b>16.3</b>									
<b>TOTAL HOUSES*</b>		<b>197,578</b>										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	87,208	44.1									
	Urban	49,990	25.3									
	<b>Total</b>	<b>137,198</b>	<b>69.4</b>	M				VH				
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	2,157	1.1									
	Urban	2,740	1.4									
	<b>Total</b>	<b>4,897</b>	<b>2.5</b>	H				H				
<b>R3 - Flat Roof</b>	Rural	10,882	5.5									
	Urban	44,601	22.6									
	<b>Total</b>	<b>55,483</b>	<b>28.1</b>	Damage Risk as per that for the Wall supporting it								
<b>TOTAL HOUSES*</b>		<b>197,578</b>										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 1560 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