

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

**Table No. : MG 02**

**State : MEGHALAYA**

**EAST GARO 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						98.3	1.7			
<b>WALL</b>												
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	1,307	1.8									
	Urban	153	0.2									
	<b>Total</b>	<b>1,460</b>	<b>2.0</b>	VH				VH	H			
<b>A2 - Stone Wall not packed with mortar</b>	Rural	403	0.6									
	Urban	129	0.2									
	<b>Total</b>	<b>532</b>	<b>0.8</b>	VH				H	M			
<b>Total - Category - A</b>		<b>1,992</b>	<b>2.8</b>									
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	6,518	9.1									
	Urban	2,805	3.9									
	<b>Total</b>	<b>9,323</b>	<b>13.0</b>	H				H	M			
<b>Total - Category - B</b>		<b>9,323</b>	<b>12.9</b>									
<b>C1 - Concrete Wall</b>	Rural	679	0.9									
	Urban	600	0.8									
	<b>Total</b>	<b>1,279</b>	<b>1.7</b>	M				L	VL			
<b>C2 - Wood wall</b>	Rural	619	0.9									
	Urban	90	0.1									
	<b>Total</b>	<b>709</b>	<b>1.0</b>	M				VH	H			
<b>Total - Category - C</b>		<b>1,988</b>	<b>2.8</b>									
<b>X - Other Materials</b>	Rural	52,027	72.2									
	Urban	6,684	9.3									
	<b>Total</b>	<b>58,711</b>	<b>81.5</b>	M				VH	H			
<b>Total - Category - X</b>		<b>58,711</b>	<b>81.5</b>									
<b>TOTAL HOUSES*</b>		<b>72,014</b>										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	60,218	83.6									
	Urban	9,878	13.7									
	<b>Total</b>	<b>70,096</b>	<b>97.3</b>	M				VH	VH			
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	984	1.4									
	Urban	189	0.3									
	<b>Total</b>	<b>1,173</b>	<b>1.7</b>	H				H	M			
<b>R3 - Flat Roof</b>	Rural	351	0.5									
	Urban	394	0.5									
	<b>Total</b>	<b>745</b>	<b>1.0</b>	Damage Risk as per that for the Wall supporting it								
<b>TOTAL HOUSES*</b>		<b>72,014</b>										

Probable Maximum Precipitation at a Station of the district in 24 hrs is    600 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