

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

**Table No. : MG 03**

**State : MEGHALAYA**

**SOUTH GARO HILLS**

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				
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	1,970	5.2										
	Urban	109	0.3										
	Total	2,079	5.5	VH					VH				
A2 - Stone Wall not packed with mortar	Rural	258	0.7										
	Urban	24	0.1										
	Total	282	0.8	VH					H				
Total - Category - A		2,361	6.2										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	2,541	6.7										
	Urban	1,052	2.8										
	Total	3,593	9.5	H					H				
Total - Category - B		3,593	9.5										
C1 - Concrete Wall	Rural	582	1.5										
	Urban	109	0.3										
	Total	691	1.8	M					L				
C2 - Wood wall	Rural	903	2.4										
	Urban	80	0.2										
	Total	983	2.6	M					VH				
Total - Category - C		1,674	4.4										
X - Other Materials	Rural	28,311	74.6										
	Urban	2,034	5.4										
	Total	30,345	80.0	M					VH				
Total - Category - X		30,345	79.9										
TOTAL HOUSES*		37,973											

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	33,687	88.7									
	Urban	3,223	8.5									
	<b>Total</b>	<b>36,910</b>	<b>97.2</b>	M				VH				
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	431	1.1									
	Urban	78	0.2									
	<b>Total</b>	<b>509</b>	<b>1.3</b>	H				H				
<b>R3 - Flat Roof</b>	Rural	447	1.2									
	Urban	107	0.3									
	<b>Total</b>	<b>554</b>	<b>1.5</b>	Damage Risk as per that for the Wall supporting it								
<b>TOTAL HOUSES*</b>		<b>37,973</b>										

**Probable Maximum Precipitation at a Station of the district in 24 hrs is 1080 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