

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

Table No. : MG 04

State : MEGHALAYA

WEST 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				
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	2,044	2.5									
	Urban	265	0.3									
	Total	2,309	2.8	VH				VH				
A2 - Stone Wall not packed with mortar	Rural	749	0.9									
	Urban	14	-									
	Total	763	0.9	VH				H				
Total - Category - A		3,072	3.8									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	4,291	5.3									
	Urban	1,144	1.4									
	Total	5,435	6.7	H				H				
Total - Category - B		5,435	6.7									
C1 - Concrete Wall	Rural	5,860	7.2									
	Urban	1,980	2.4									
	Total	7,840	9.6	M				L				
C2 - Wood wall	Rural	30,622	37.7									
	Urban	5,277	6.5									
	Total	35,899	44.2	M				VH				
Total - Category - C		43,739	53.8									
X - Other Materials	Rural	28,357	34.9									
	Urban	704	0.9									
	Total	29,061	35.8	M				VH				
Total - Category - X		29,061	35.7									
TOTAL HOUSES*		81,307										

ROOF												
R1 - Light Weight Sloping Roof	Rural	66,816	82.2									
	Urban	7,563	9.3									
	Total	74,379	91.5	M				VH				
R2 - Heavy Weight Sloping Roof	Rural	1,543	1.9									
	Urban	53	0.1									
	Total	1,596	2.0	H				H				
R3 - Flat Roof	Rural	3,564	4.4									
	Urban	1,768	2.2									
	Total	5,332	6.6	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		81,307										

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