

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

**Table No. : TR 03**

**State : TRIPURA**

**DHALAI**

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	38,566	38.7										
	Urban	3,672	3.7										
	Total	42,238	42.4	VH				VH					
A2 - Stone Wall not packed with mortar	Rural	197	0.2										
	Urban	52	0.1										
	Total	249	0.3	VH				H					
Total - Category - A		42,487	42.6										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	6,127	6.1										
	Urban	3,625	3.6										
	Total	9,752	9.7	H				H					
Total - Category - B		9,752	9.8										
C1 - Concrete Wall	Rural	329	0.3										
	Urban	31	-										
	Total	360	0.3	M				L					
C2 - Wood wall	Rural	106	0.1										
	Urban	52	0.1										
	Total	158	0.2	M				VH					
Total - Category - C		518	0.5										
X - Other Materials	Rural	41,204	41.3										
	Urban	5,773	5.8										
	Total	46,977	47.1	M				VH					
Total - Category - X		46,977	47.1										
TOTAL HOUSES*		99,734											

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	84,173	84.4									
	Urban	11,917	11.9									
	<b>Total</b>	<b>96,090</b>	<b>96.3</b>	M				VH				
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	1,008	1.0									
	Urban	217	0.2									
	<b>Total</b>	<b>1,225</b>	<b>1.2</b>	H				H				
<b>R3 - Flat Roof</b>	Rural	1,348	1.4									
	Urban	1,071	1.1									
	<b>Total</b>	<b>2,419</b>	<b>2.5</b>	Damage Risk as per that for the Wall supporting it								
<b>TOTAL HOUSES*</b>		<b>99,734</b>										

**Probable Maximum Precipitation at a Station of the district in 24 hrs is 360 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