

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

**Table No. : TN 23**

**State : TAMIL NADU**

**THENI**

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 %				
						4.3	95.7			100		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	37,506	9.8									
	Urban	34,392	9.0									
	Total	71,898	18.8			M	L			M		
A2 - Stone Wall not packed with mortar	Rural	3,346	0.9									
	Urban	2,982	0.8									
	Total	6,328	1.7			M	L			L		
Total - Category - A		78,226	20.4									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	112,936	29.5									
	Urban	140,595	36.7									
	Total	253,531	66.2			L	VL			L		
Total - Category - B		253,531	66.2									
C1 - Concrete Wall	Rural	11,829	3.1									
	Urban	21,842	5.7									
	Total	33,671	8.8			VL	VL			VL		
C2 - Wood wall	Rural	345	0.1									
	Urban	431	0.1									
	Total	776	0.2			VL	VL			M		
Total - Category - C		34,447	9.0									
X - Other Materials	Rural	7,762	2.0									
	Urban	8,922	2.3									
	Total	16,684	4.3			VL	VL			M		
Total - Category - X		16,684	4.4									
TOTAL HOUSES*		382,888										

ROOF												
R1 - Light Weight Sloping Roof	Rural	93,367	24.4									
	Urban	89,346	23.3									
	Total	182,713	47.7			L	VL			H		
R2 - Heavy Weight Sloping Roof	Rural	16,715	4.4									
	Urban	17,594	4.6									
	Total	34,309	9.0			L	VL			L		
R3 - Flat Roof	Rural	63,642	16.6									
	Urban	102,224	26.7									
	Total	165,866	43.3	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		382,888										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **440 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