

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

**Table No. : TN 26**

**State : TAMIL NADU**

**THOOTHUKKUDI**

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	82,567	14.9									
	Urban	28,070	5.1									
	Total	110,637	20.0				L			M		
A2 - Stone Wall not packed with mortar	Rural	6,183	1.1									
	Urban	5,146	0.9									
	Total	11,329	2.0				L			L		
Total - Category - A		121,966	22.1									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	167,628	30.3									
	Urban	208,866	37.8									
	Total	376,494	68.1				VL			L		
Total - Category - B		376,494	68.1									
C1 - Concrete Wall	Rural	10,162	1.8									
	Urban	14,657	2.7									
	Total	24,819	4.5				VL			VL		
C2 - Wood wall	Rural	783	0.1									
	Urban	550	0.1									
	Total	1,333	0.2				VL			M		
Total - Category - C		26,152	4.7									
X - Other Materials	Rural	14,549	2.6									
	Urban	13,710	2.5									
	Total	28,259	5.1				VL			M		
Total - Category - X		28,259	5.1									
TOTAL HOUSES*		552,871										
ROOF												
R1 - Light Weight Sloping Roof	Rural	39,358	7.1									
	Urban	39,277	7.1									
	Total	78,635	14.2				VL			H		
R2 - Heavy Weight Sloping Roof	Rural	124,773	22.6									
	Urban	62,601	11.3									
	Total	187,374	33.9				VL			L		
R3 - Flat Roof	Rural	117,741	21.3									
	Urban	169,121	30.6									
	Total	286,862	51.9	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		552,871										

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