

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

**Table No. : TN 19**

**State : TAMIL NADU**

**THANJAVUR**

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	153,571	21.7									
	Urban	48,862	6.9									
	Total	202,433	28.6				L		H			
A2 - Stone Wall not packed with mortar	Rural	15,837	2.2									
	Urban	8,233	1.2									
	Total	24,070	3.4				L		M			
Total - Category - A		226,503	32.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	199,530	28.2									
	Urban	155,683	22.0									
	Total	355,213	50.2				VL		M			
Total - Category - B		355,213	50.1									
C1 - Concrete Wall	Rural	23,381	3.3									
	Urban	31,951	4.5									
	Total	55,332	7.8				VL		VL			
C2 - Wood wall	Rural	1,455	0.2									
	Urban	604	0.1									
	Total	2,059	0.3				VL		H			
Total - Category - C		57,391	8.1									
X - Other Materials	Rural	58,525	8.3									
	Urban	10,835	1.5									
	Total	69,360	9.8				VL		H			
Total - Category - X		69,360	9.8									
TOTAL HOUSES*		708,467										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	202,321	28.6									
	Urban	58,109	8.2									
	<b>Total</b>	<b>260,430</b>	<b>36.8</b>				VL		VH			
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	129,868	18.3									
	Urban	67,875	9.6									
	<b>Total</b>	<b>197,743</b>	<b>27.9</b>				VL		M			
<b>R3 - Flat Roof</b>	Rural	120,110	17.0									
	Urban	130,184	18.4									
	<b>Total</b>	<b>250,294</b>	<b>35.4</b>	<i>Damage Risk as per that for the Wall supporting it</i>								
<b>TOTAL HOUSES*</b>		<b>708,467</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **578 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