

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

**Table No. : TN 15**

**State : TAMIL NADU**

**ARIYALUR**

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	85,391	36.7									
	Urban	7,370	3.2									
	Total	92,761	39.9				L		H			
A2 - Stone Wall not packed with mortar	Rural	5,071	2.2									
	Urban	550	0.2									
	Total	5,621	2.4				L		M			
Total - Category - A		98,382	42.3									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	92,741	39.8									
	Urban	16,853	7.2									
	Total	109,594	47.0				VL		M			
Total - Category - B		109,594	47.1									
C1 - Concrete Wall	Rural	5,355	2.3									
	Urban	1,191	0.5									
	Total	6,546	2.8				VL		VL			
C2 - Wood wall	Rural	546	0.2									
	Urban	72	-									
	Total	618	0.2				VL		H			
Total - Category - C		7,164	3.1									
X - Other Materials	Rural	16,596	7.1									
	Urban	1,113	0.5									
	Total	17,709	7.6				VL		H			
Total - Category - X		17,709	7.6									
TOTAL HOUSES*		232,849										

ROOF												
R1 - Light Weight Sloping Roof	Rural	87,363	37.5									
	Urban	6,313	2.7									
	Total	93,676	40.2				VL		VH			
R2 - Heavy Weight Sloping Roof	Rural	70,508	30.3									
	Urban	9,439	4.1									
	Total	79,947	34.4				VL		M			
R3 - Flat Roof	Rural	47,829	20.5									
	Urban	11,397	4.9									
	Total	59,226	25.4	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		232,849										

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