

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

**Table No. : DL 03**

**State : NCT OF DELHI**

**NORTH EAST**

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	57	-										
	Urban	4,058	0.9										
	Total	4,115	0.9		H			VH					
A2 - Stone Wall not packed with mortar	Rural	23	-										
	Urban	4,389	1.0										
	Total	4,412	1.0		H			H					
Total - Category - A		8,527	1.9										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	4,234	0.9										
	Urban	417,127	93.4										
	Total	421,361	94.3		M			H					
Total - Category - B		421,361	94.3										
C1 - Concrete Wall	Rural	17	-										
	Urban	13,159	2.9										
	Total	13,176	2.9		L			L					
C2 - Wood wall	Rural	1	-										
	Urban	473	0.1										
	Total	474	0.1		L			VH					
Total - Category - C		13,650	3.1										
X - Other Materials	Rural	54	-										
	Urban	3,059	0.7										
	Total	3,113	0.7		VL			VH					
Total - Category - X		3,113	0.7										
TOTAL HOUSES*		446,651											

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	312	0.1									
	Urban	13,245	3.0									
	<b>Total</b>	<b>13,557</b>	<b>3.1</b>		M			VH				
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	1,965	0.4									
	Urban	170,886	38.3									
	<b>Total</b>	<b>172,851</b>	<b>38.7</b>		M			H				
<b>R3 - Flat Roof</b>	Rural	2,109	0.5									
	Urban	258,134	57.8									
	<b>Total</b>	<b>260,243</b>	<b>58.3</b>	<i>Damage Risk as per that for the Wall supporting it</i>								
<b>TOTAL HOUSES*</b>		<b>446,651</b>										

**Probable Maximum Precipitation at a Station of the district in 24 hrs is N.A. 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