

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

Table No. : DL 07

State : NCT OF DELHI

WEST

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				70.1	29.9					
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	8	-											
	Urban	15,358	2.5											
	Total	15,366	2.5		<i>H</i>				<i>VH</i>	<i>H</i>				
A2 - Stone Wall not packed with mortar	Rural	6	-											
	Urban	6,366	1.0											
	Total	6,372	1.0		<i>H</i>				<i>H</i>	<i>M</i>				
Total - Category - A		21,738	3.5											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	1,534	0.2											
	Urban	551,077	89.0											
	Total	552,611	89.2		<i>M</i>				<i>H</i>	<i>M</i>				
Total - Category - B		552,611	89.3											
C1 - Concrete Wall	Rural	10	-											
	Urban	38,409	6.2											
	Total	38,419	6.2		<i>L</i>				<i>L</i>	<i>VL</i>				
C2 - Wood wall	Rural		-											
	Urban	893	0.1											
	Total	893	0.1		<i>L</i>				<i>VH</i>	<i>H</i>				
Total - Category - C		39,312	6.4											
X - Other Materials	Rural	3	-											
	Urban	5,259	0.8											
	Total	5,262	0.8		<i>VL</i>				<i>VH</i>	<i>H</i>				
Total - Category - X		5,262	0.9											
TOTAL HOUSES*		618,923												

ROOF													
R1 - Light Weight Sloping Roof	Rural	59	-										
	Urban	49,465	8.0										
	Total	49,524	8.0		<i>M</i>				<i>VH</i>	<i>VH</i>			
R2 - Heavy Weight Sloping Roof	Rural	1,136	0.2										
	Urban	121,895	19.7										
	Total	123,031	19.9		<i>M</i>				<i>H</i>	<i>M</i>			
R3 - Flat Roof	Rural	366	0.1										
	Urban	446,002	72.1										
	Total	446,368	72.2	<i>Damage Risk as per that for the Wall supporting it</i>									
TOTAL HOUSES*		618,923											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 537 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