

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

NCT OF DELHI

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 %					
STATE - NCT OF DELHI					100				62.8	37.2			2.9
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	3,335	0.1										
	Urban	82,507	2.0										
	Total	85,842	2.1		H			VH	H			VH	
A2 - Stone Wall not packed with mortar	Rural	1,758	-										
	Urban	43,455	1.1										
	Total	45,213	1.1		H			H	M			VH	
Total - Category - A		131,055	3.2										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	90,056	2.2										
	Urban	3,559,017	87.8										
	Total	3,649,073	90.0		M			H	M			H/M	
Total - Category - B		3,649,073	90.0										
C1 - Concrete Wall	Rural	3,881	0.1										
	Urban	219,613	5.4										
	Total	223,494	5.5		L			L	VL			L/VL	
C2 - Wood wall	Rural	166	-										
	Urban	7,297	0.2										
	Total	7,463	0.2		L			VH	H			H	
Total - Category - C		230,957	5.7										
X - Other Materials	Rural	1,866	-										
	Urban	40,425	1.0										
	Total	42,291	1.0		VL			VH	H			VH	
Total - Category - X		42,291	1.0										
TOTAL HOUSES*		4,053,376											

ROOF												
R1 - Light Weight Sloping Roof	Rural	18,010	0.4									
	Urban	299,600	7.4									
	Total	317,610	7.8		M			VH	VH			VH
R2 - Heavy Weight Sloping Roof	Rural	46,919	1.2									
	Urban	933,292	23.0									
	Total	980,211	24.2		M			H	M			H
R3 - Flat Roof	Rural	36,133	0.9									
	Urban	2,719,422	67.1									
	Total	2,755,555	68.0	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		4,053,376										

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