

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

Table No. : AS 07

State : ASSAM

SONITPUR

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				78.3		21.7		11.4	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	20,917	4.0										
	Urban	1,694	0.3										
	Total	22,611	4.3	VH				VH		M		VH	
A2 - Stone Wall not packed with mortar	Rural	2,514	0.5										
	Urban	508	0.1										
	Total	3,022	0.6	VH				H		L		VH	
Total - Category - A		25,633	4.8										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	102,264	19.3										
	Urban	31,424	5.9										
	Total	133,688	25.2	H				H		L		H/M	
Total - Category - B		133,688	25.3										
C1 - Concrete Wall	Rural	14,347	2.7										
	Urban	8,451	1.6										
	Total	22,798	4.3	M				L		VL		L/ VL	
C2 - Wood wall	Rural	5,503	1.0										
	Urban	1,092	0.2										
	Total	6,595	1.2	M				VH		M		H	
Total - Category - C		29,393	5.6										
X - Other Materials	Rural	323,997	61.2										
	Urban	16,530	3.1										
	Total	340,527	64.3	M				VH		M		VH	
Total - Category - X		340,527	64.3										
TOTAL HOUSES*		529,241											

ROOF												
R1 - Light Weight Sloping Roof	Rural	462,563	87.4									
	Urban	50,135	9.5									
	Total	512,698	96.9	M				VH		H		VH
R2 - Heavy Weight Sloping Roof	Rural	4,715	0.9									
	Urban	1,206	0.2									
	Total	5,921	1.1	H				H		L		H
R3 - Flat Roof	Rural	2,264	0.4									
	Urban	8,358	1.6									
	Total	10,622	2.0	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		529,241										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 770 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