

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

Table No. : MH 30

State : MAHARASHTRA

SOLAPUR

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	Flood Prone Area in %
				Area in %				Area in %				
					93.7	6.3				74.2	25.8	
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	62,602	6.0									
	Urban	36,430	3.5									
	Total	99,032	9.5					<i>M</i>	<i>L</i>			<i>M</i> <i>L</i>
A2 - Stone Wall not packed with mortar	Rural	54,475	5.3									
	Urban	11,030	1.1									
	Total	65,505	6.4					<i>M</i>	<i>L</i>			<i>L</i> <i>VL</i>
Total - Category - A		164,537	15.9									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	415,588	40.1									
	Urban	204,549	19.8									
	Total	620,137	59.9					<i>L</i>	<i>VL</i>			<i>L</i> <i>VL</i>
Total - Category - B		620,137	59.9									
C1 - Concrete Wall	Rural	34,087	3.3									
	Urban	33,254	3.2									
	Total	67,341	6.5					<i>VL</i>	<i>VL</i>			<i>VL</i> <i>VL</i>
C2 - Wood wall	Rural	5,381	0.5									
	Urban	1,502	0.1									
	Total	6,883	0.6					<i>VL</i>	<i>VL</i>			<i>M</i> <i>L</i>
Total - Category - C		74,224	7.2									
X - Other Materials	Rural	127,145	12.3									
	Urban	49,170	4.7									
	Total	176,315	17.0					<i>VL</i>	<i>VL</i>			<i>M</i> <i>L</i>
Total - Category - X		176,315	17.0									
TOTAL HOUSES*		1,035,213										

ROOF												
R1 - Light Weight Sloping Roof	Rural	553,977	53.5									
	Urban	182,779	17.7									
	Total	736,756	71.2					<i>L</i>	<i>VL</i>			<i>H</i> <i>M</i>
R2 - Heavy Weight Sloping Roof	Rural	34,563	3.3									
	Urban	22,161	2.1									
	Total	56,724	5.4					<i>L</i>	<i>VL</i>			<i>L</i> <i>VL</i>
R3 - Flat Roof	Rural	110,738	10.7									
	Urban	130,995	12.7									
	Total	241,733	23.4					Damage Risk as per that for the Wall supporting it				
TOTAL HOUSES*		1,035,213										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 487 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