

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

**Table No. : RJ 32**

**State : RAJASTHAN**

**UDAIPUR**

Wall / Roof		Census Houses		Level of Risk under									Flood Pron e Area
		No. of Houses	%	EQ Zone				Wind Velocity m/s					
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
					13.8	86.2			89.2	10.8			
<b>WALL</b>													
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	260,318	34.0										
	Urban	7,653	1.0										
	<b>Total</b>	<b>267,971</b>	<b>35.0</b>					<i>M</i>	<i>L</i>		<i>H</i>	<i>M</i>	
<b>A2 - Stone Wall not packed with mortar</b>	Rural	47,444	6.2										
	Urban	11,901	1.6										
	<b>Total</b>	<b>59,345</b>	<b>7.8</b>					<i>M</i>	<i>L</i>		<i>M</i>	<i>L</i>	
<b>Total - Category - A</b>		<b>327,316</b>	<b>42.7</b>										
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	284,003	37.1										
	Urban	136,318	17.8										
	<b>Total</b>	<b>420,321</b>	<b>54.9</b>					<i>L</i>	<i>VL</i>		<i>M</i>	<i>L</i>	
<b>Total - Category - B</b>		<b>420,321</b>	<b>54.9</b>										
<b>C1 - Concrete Wall</b>	Rural	1,644	0.2										
	Urban	2,036	0.3										
	<b>Total</b>	<b>3,680</b>	<b>0.5</b>					<i>VL</i>	<i>VL</i>		<i>VL</i>	<i>VL</i>	
<b>C2 - Wood wall</b>	Rural	1,821	0.2										
	Urban	295	-										
	<b>Total</b>	<b>2,116</b>	<b>0.2</b>					<i>VL</i>	<i>VL</i>		<i>H</i>	<i>M</i>	
<b>Total - Category - C</b>		<b>5,796</b>	<b>0.8</b>										
<b>X - Other Materials</b>	Rural	11,184	1.5										
	Urban	1,570	0.2										
	<b>Total</b>	<b>12,754</b>	<b>1.7</b>					<i>VL</i>	<i>VL</i>		<i>H</i>	<i>M</i>	
<b>Total - Category - X</b>		<b>12,754</b>	<b>1.7</b>										
<b>TOTAL HOUSES*</b>				<b>766,187</b>									

ROOF													
<b>R1 - Light Weight Sloping Roof</b>	Rural	99,352	13.0										
	Urban	9,841	1.3										
	<b>Total</b>	<b>109,193</b>	<b>14.3</b>					<i>L</i>	<i>VL</i>		<i>VH</i>	<i>H</i>	
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	458,127	59.8										
	Urban	57,749	7.5										
	<b>Total</b>	<b>515,876</b>	<b>67.3</b>					<i>L</i>	<i>VL</i>		<i>M</i>	<i>L</i>	
<b>R3 - Flat Roof</b>	Rural	48,935	6.4										
	Urban	92,183	12.0										
	<b>Total</b>	<b>141,118</b>	<b>18.4</b>					<i>Damage Risk as per that for the Wall supporting it</i>					
<b>TOTAL HOUSES*</b>				<b>766,187</b>									

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 462 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