

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

### DAMAN & DIU

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area
				V	IV	III	II	55 & 50	47	44 & 39	33	in %
<b>STATE - DAMAN &amp; DIU</b>									<b>31.4</b>		<b>68.6</b>	
<b>WALL</b>												
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	379	0.5									
	Urban	462	0.6									
	<b>Total</b>	<b>841</b>	<b>1.1</b>				<i>M</i>		<i>VH</i>		<i>M</i>	
<b>A2 - Stone Wall not packed with mortar</b>	Rural	661	0.9									
	Urban	305	0.4									
	<b>Total</b>	<b>966</b>	<b>1.3</b>				<i>M</i>		<i>H</i>		<i>L</i>	
<b>Total - Category - A</b>		<b>1,807</b>	<b>2.4</b>									
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	15,454	20.6									
	Urban	53,502	71.2									
	<b>Total</b>	<b>68,956</b>	<b>91.8</b>				<i>L</i>		<i>H</i>		<i>L</i>	
<b>Total - Category - B</b>		<b>68,956</b>	<b>91.8</b>									
<b>C1 - Concrete Wall</b>	Rural	143	0.2									
	Urban	2,469	3.3									
	<b>Total</b>	<b>2,612</b>	<b>3.5</b>				<i>VL</i>		<i>L</i>		<i>VL</i>	
<b>C2 - Wood wall</b>	Rural	46	0.1									
	Urban	238	0.3									
	<b>Total</b>	<b>284</b>	<b>0.4</b>				<i>VL</i>		<i>VH</i>		<i>M</i>	
<b>Total - Category - C</b>		<b>2,896</b>	<b>3.9</b>									
<b>X - Other Materials</b>	Rural	525	0.7									
	Urban	924	1.2									
	<b>Total</b>	<b>1,449</b>	<b>1.9</b>				<i>VL</i>		<i>VH</i>		<i>M</i>	
<b>Total - Category - X</b>		<b>1,449</b>	<b>1.9</b>									
<b>TOTAL HOUSES*</b>		<b>75,108</b>										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	5,592	7.4									
	Urban	28,841	38.4									
	<b>Total</b>	<b>34,433</b>	<b>45.8</b>				<i>L</i>		<i>VH</i>		<i>H</i>	
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	4,174	5.6									
	Urban	5,162	6.9									
	<b>Total</b>	<b>9,336</b>	<b>12.5</b>				<i>L</i>		<i>H</i>		<i>L</i>	
<b>R3 - Flat Roof</b>	Rural	7,442	9.9									
	Urban	23,897	31.8									
	<b>Total</b>	<b>31,339</b>	<b>41.7</b>	Damage Risk as per that for the Wall supporting it								
<b>TOTAL HOUSES*</b>		<b>75,108</b>										

#### 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