

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

**Table No. : HP 06**

**State : HIMACHAL PRADESH**

**HAMIRPUR**

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	
		100										100	
<b>WALL</b>													
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	77,759	41.5										
	Urban	1,570	0.8										
	<b>Total</b>	<b>79,329</b>	<b>42.3</b>	VH								M	
<b>A2 - Stone Wall not packed with mortar</b>	Rural	2,705	1.4										
	Urban	147	0.1										
	<b>Total</b>	<b>2,852</b>	<b>1.5</b>	VH								L	
<b>Total - Category - A</b>		<b>82,181</b>	<b>43.9</b>										
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	91,179	48.7										
	Urban	10,613	5.7										
	<b>Total</b>	<b>101,792</b>	<b>54.4</b>	H								L	
<b>Total - Category - B</b>		<b>101,792</b>	<b>54.4</b>										
<b>C1 - Concrete Wall</b>	Rural	851	0.5										
	Urban	24	-										
	<b>Total</b>	<b>875</b>	<b>0.5</b>	M								VL	
<b>C2 - Wood wall</b>	Rural	371	0.2										
	Urban	45	-										
	<b>Total</b>	<b>416</b>	<b>0.2</b>	M								M	
<b>Total - Category - C</b>		<b>1,291</b>	<b>0.7</b>										
<b>X - Other Materials</b>	Rural	1,715	0.9										
	Urban	217	0.1										
	<b>Total</b>	<b>1,932</b>	<b>1.0</b>	M								M	
<b>Total - Category - X</b>		<b>1,932</b>	<b>1.0</b>										
<b>TOTAL HOUSES*</b>		<b>187,196</b>											

<b>ROOF</b>													
<b>R1 - Light Weight Sloping Roof</b>	Rural	7,604	4.1										
	Urban	779	0.4										
	<b>Total</b>	<b>8,383</b>	<b>4.5</b>	M								H	
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	101,370	54.2										
	Urban	2,276	1.2										
	<b>Total</b>	<b>103,646</b>	<b>55.4</b>	H								L	
<b>R3 - Flat Roof</b>	Rural	65,606	35.0										
	Urban	9,561	5.1										
	<b>Total</b>	<b>75,167</b>	<b>40.1</b>	Damage Risk as per that for the Wall supporting it									
<b>TOTAL HOUSES*</b>		<b>187,196</b>											

Probable Maximum Precipitation at a Station of the district in 24 hrs is 520 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