

Structures and Building and Construction and Manufacturing Components and Supplies UNSPSC CODE : 30000000												
Structural building products UNSPSC CODE : 301300000												
Bricks UNSPSC CODE : 30131600												
Commodity : Clay Bricks UNSPSC CODE : 301316 Selling Unit :												
S.No.	Parameters	Type	Value 1	Value 2	Value 3	Value 4	Validation	Unit	M	F	G	Demand aggregation
<b>Classes of Common Burnt Clay Bricks</b>												
1	Class designation	N	3.5	5	7.5	*			v	v		
2	Average compressive strength not less than (N/mm <sup>2</sup> )	N	3.5	5	7.5	**			v	v	v	
3	Average compressive strength not less than (kgf/cm <sup>2</sup> ) approx	N	35	50	75	***			v	v	v	
<b>General Quality</b>												
4	a) Bricks shall be hand-moulded or machine moulded and shall be made from suitable soils They shall be free from cracks and flaws and nodules of free lime. b) Hand-moulded bricks of 90 mm or 70 height shall be moulded with a frog 10 to 20 mm deep on one of its flat sides; the shape and size of the frog shall conform to either Bricks of 40 mm height as well as those made by extrusion process may not be provided with frogs c) The bricks shall have smooth rectangular faces with sharp corners and shall be uniform in colour	CH	YES						v			

**Dimensions and Tolerances**

5	The standard modular size of common building bricks, (L×W×H),(mm×mm×mm)	EN	190×90×90	190×90×40					√	√	√	
6	The following non-modular size of the bricks, (L×W×H),(mm×mm×mm)	EN	230×110×70	230×110×30					√	√	√	
7	For obtaining proper bond arrangement and modular dimensions for the brick work, with the non-modular sizes, the following sizes of the bricks may also be used, (L×W), (mm×mm)	EN	70×110						√			
8	For obtaining proper bond arrangement and modular dimensions for the brick work, with the non-modular sizes, the following sizes of the bricks may also be used, (Height),(mm)	EN	70 (1/3 length brick)						√			

9	<p>The dimensions of bricks when tested in accordance with clause 6.1.2.1 of IS : 1077 ( Latest) shall be within the following limits per 20 bricks:</p> <p>a) For modular size Length, (mm),(3800±80 mm)      b)  For modular size Width, (mm),(1800±40 mm)      c)  For modular size Height, (mm),[1760 to 1840 (1800±40 mm),(For 90 mm high bricks) and 760 to 840 (800±40 mm),(For 40 mm high bricks)]  d) For non-modular size Length, (mm),(4600±80 mm)      e)  For non-modular size Width, (mm),(2240±40 mm)      f)  For non-modular size Height, (mm),[1440 to 1360 (1400±40 mm),(For 70 mm high bricks) and 640 to 560 (600±40 mm),(For 30 mm high bricks) ]</p>	CH	YES						v			
<b>Physical Requirements</b>												
10	Compressive Strength	CH	<p>a) The bricks, when tested in accordance with the procedure laid down in IS 3495 (Part I ) : 1992 shall have a minimum average compressive strength for various classes      b) The compressive strength of any individual brick tested shall not fall below the minimum compressive strength specified for the corresponding class of brick. The lot shall be then checked for next lower class of brick.</p>						v			

11	Water Absorption	CH	The bricks, when tested in accordance with the procedure laid down in IS 3495 ( Part 2 ) : 1992 after immersion in cold water for 24 hours, water absorption shall not be more than 20 percent by weight up to class 12.5 and 15 percent by weight for higher classes.						v			
12	Efflorescence	CH	The bricks when tested in accordance with the procedure laid down in IS 3495 ( Part 3 ) : 1992 the rating of efflorescence shall not be more than 'moderate' up to class 12.5 and 'slight' for higher classes.						v			
<b>Sampling and criterion for conformity</b>												
13	Sampling and criterion for conformity of common bricks shall be done in accordance with the procedure laid down in IS 5454 : 1978	CH	YES						v			

