

Structures and Building and Construction and Manufacturing Components and Supplies UNSPSC CODE : 30000000												
Structural building products UNSPSC CODE : 301300000												
Bricks UNSPSC CODE : 30131600												
Commodity : Fly Ash 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	*			√	√	√	
2	Average compressive strenght not less than (N/mm <sup>2</sup> )	N	3.5	5	7.5	**			√	√	√	
3	Average compressive strenght not less than (kgf/cm <sup>2</sup> ) approx	N	35	50	75	***			√	√	√	

General Quality												
4	<p>a) Clay flyash bricks shall be hand or machine moulded and shall be made from the admixture of suitable soils and flyash in optimum proportions, see IS 2117 : 1991. The flyash used for manufacture of bricks shall conform to grade 1 or grade 2 as per IS 3812:1981. The bricks shall be uniformly burnt, free from cracks and flaws as black coring, nodules of stone and/or free lime and organic matter. In case of non-modular size of bricks, frog dimensions shall be the same as for modular size bricks.</p> <p>b) Hand-moulded bricks of 90 mm or 70 mm 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 or 30 mm height as well as those made by extrusion process may not be provided with frogs.</p> <p>c) The bricks shall have smooth rectangular faces with sharp corners and shall be uniform in shape and colour.</p>	CH	YES							✓		
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	NA					✓	✓	✓
6	Non-modular size of the bricks, (L×W×H), (mm×mm×mm)	EN	230×110×70	230×110×30	NA					✓	✓	✓
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×H), (mm×mm×mm)	EN	70×110×70	230×50×70	NA					✓	✓	



11	<b>Water Absorption :</b> 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	CH	YES						v			
12	<b>Efflorescence :</b> 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	CH	YES						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			
<b>Marking and Labelling</b>												
14	Each brick shall be marked (in the frog where provided) with an indication of source of manufacture	CH	YES						v			
15	The manufacturer may also use the Standard Mark	CH	YES						v			

