



Dr. B. NAGESWARA RAO
Professor & Head of Structural Engineering Laboratory

TEST REPORT OF AAC BLOCKS

Client : M/s Fusion Building Materials Private Limited
Source of specimens : Supplied by client
Size of specimens : 600×200×225 mm
Condition of samples : Acceptable
No. of specimens : 12
Letter Dated : 09.03.2017
Date of testing : 15.03.2017
Test Method Followed : IS 2185 (Part 3)- 1984(Reaffirmed 2005), IS 6441 (Part 1 & 5)- 1972 (Reaffirmed 2012) and IS: 6598- 1972(Reaffirmed 2010)

COMPRESSIVE STRENGTH [IS 2185 (Part 3)- 1984, IS 6441 (Part 1 & 5)- 1972]:

No. of specimen	Size of tested specimen (mm)	Compressive load (kN)	Compressive strength (N/mm ²)	Required Compressive strength (N/mm ²)
1	150×150×150	117.0	5.20	For Grade 1- Min. 4.0 For Grade 2- Min. 3.0
2	150×150×150	129.1	5.74	
3	150×150×150	111.9	4.97	
4	150×150×150	94.5	4.20	

WATER ABSORPTION [IS: 6598- 1972]:

No. of specimen	Size of tested specimen (mm)	Water absorption (%)	Allowable Water absorption (%)
1	40×40×160	18.0	Max. 20
2	40×40×160	17.0	
3	40×40×160	16.0	
4	40×40×160	18.0	

BLOCK DENSITY [IS 2185 (Part 3)- 1984, IS 6441 (Part 1 & 5)- 1972]:

No. of specimen	Size of tested specimen (mm)	Oven dry density (kg/m ³)	Allowable Oven dry density (kg/m ³)
1	200×100×50	662	551 to 650
2	200×100×50	679	
3	200×100×50	627	
4	200×100×50	620	

Note:

This certificate is based on the sample submitted for testing.



Dr. B. NAGESWARA RAO
Professor
Department of Civil Engineering
Indian Institute of Technology Madras
Chennai - 600 036, India