



Ref: BVIPL/BLOCKS : BL/1348/2/2021/1
Test Order dated: 12.02.2021



1/2
Date : 15.02.2021

Wienerberger India Private Limited
Plot # 1 & 2, Phase – II, Gottigere Village,
Kunigal Industrial Area, Kunigal - 572 130.

TEST REPORT ON CLAY BRICKS

Source of sample : Samples tested at M/s Wienerberger Brick Industry Pvt. Ltd.
Laboratory
No. of samples tested : 36(Thirty Six)
UIN : 21006862
Customer's Reference : Letter Dated 06.02.2021
Project : Not furnished
Date of site visit : 12.02.2021
Date of test : 12.02.2021
Product / Date of Production # : POROTHERM HP 200 (T-90R2) – 20.01.2021
Condition of Sample : Satisfactory
Technical Reference : IS: 3952 – 2013 and IS:3495 -2019

I. CRUSHING STRENGTH:

Sl. No.	Identification	Measured Size (mm)	Crushing Strength (N/sq.mm)	Requirement as per IS : 3952 – 2013
1	HP 200 – 1	396 x 203 x 202	4.3	Average crushing strength shall not be less than 3.5 N/sq.mm
2	HP 200 – 2	394 x 203 x 202	4.2	
3	HP 200 – 3	395 x 202 x 202	4.3	
4	HP 200 – 4	394 x 202 x 201	4.5	
5	HP 200 – 5	395 x 202 x 201	4.4	
6	HP 200 – 6	394 x 203 x 201	4.2	

II. WATER ABSORPTION:

Sl. No.	Measured Size (mm)	Water Absorption (% by wt)	Requirement as per IS : 3952 – 2013
1	396 x 203 x 202	13.2	The average water absorption shall not be more than 20%
2	394 x 203 x 202	13.4	
3	395 x 202 x 202	13.2	
4	394 x 202 x 201	13.3	
5	395 x 202 x 201	13.3	
6	394 x 203 x 201	13.4	

III. EFFLORESCENCE:

Sl No	Size of test specimen (mm)	Efflorescence	Requirement as per IS : 3952 – 2013
1	200 x 100 x 100	Slight	The bricks shall have a rating not more than 'Slight'
2	200 x 100 x 100	Slight	
3	200 x 100 x 100	Slight	
4	200 x 100 x 100	Slight	
5	200 x 100 x 100	Slight	
6	200 x 100 x 100	Slight	

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Test Order dated: 12.02.2021

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Date : 15.02.2021

IV. WINDING OR BOWING IN LENGTH DIMENSION:

Sl. No.	Measured Size (mm)	Winding or Bowing In Length Dimension (mm)	Requirement as per IS : 3952 – 2013
1	396 x 203 x 202	0.40	The distance between either straight edge and the adjacent face of the brick at any point shall not be more than 5mm
2	394 x 203 x 202	1.26	
3	395 x 202 x 202	0.78	
4	394 x 202 x 201	0.48	
5	395 x 202 x 201	1.66	
6	394 x 203 x 201	0.98	

V. CONCAVITY OR CONVEXITY IN THE EXTERNAL FACE OF BRICK:

Sl. No.	Measured Size (mm)	Concavity or Convexity In The External Face Of Brick (mm)	Requirement as per IS : 3952 – 2013
1	396 x 203 x 202	0.40	The distance between either straight edge and the adjacent face of the brick shall not be more than 5mm at any point on either diagonal
2	394 x 203 x 202	Nil	
3	395 x 202 x 202	0.27	
4	* 394 x 202 x 201	Nil	
5	395 x 202 x 201	1.0	
6	394 x 203 x 201	1.35	

VI. ANGLE BETWEEN SIDES AND JOINING EDGES:

Sl. No.	Size of test specimen (mm)	Angle Between Sides And Joining Edges (mm)	Requirement as per IS : 3952 – 2013
1	396 x 203 x 202	0.40	The maximum distance between the inner edge of the square and the side shall not be more than 5mm
2	394 x 203 x 202	Nil	
3	395 x 202 x 202	Nil	
4	394 x 202 x 201	Nil	
5	395 x 202 x 201	Nil	
6	394 x 203 x 201	Nil	

As furnished by the customer

Test Witnessed by Mr. Lingamurthy from M/s Bureau Veritas (India) Private Limited.

- Note:**
1. The results relate only to the items tested.
 2. Report shall not be reproduced except in full, without the written approval, of the lab.
 3. Any correction invalidates this report.

**for BUREAU VERITAS (INDIA) PRIVATE LIMITED
Construction Services Laboratory**

(Signature)
16/02/2021
SUSHEELA V. RAMANAN
Quality Manager



Ref: BVIPL/BLOCKS : BL/1348/2/2021/2
Test Order dated: 12.02.2021

Date : 15.02.2021



Wienerberger India Private Limited
Plot # 1 & 2, Phase – II, Gottigere Village,
Kunigal Industrial Area, Kunigal - 572 130.

TEST REPORT ON CLAY BRICKS

Source of sample : Samples tested at M/s Wienerberger Brick Industry Pvt. Ltd.
Laboratory
No. of samples tested : 36(Thirty Six)
UIN : 21006862
Customer's Reference : Letter Dated 06.02.2021
Project : Not furnished
Date of site visit : 12.02.2021
Date of test : 12.02.2021
Product / Date of Production # : POROTHERM HP 150 (T-90R1) – 10.01.2021
Condition of Sample : Satisfactory
Technical Reference : IS: 3952 – 2013 and IS:3495 -2019

I. CRUSHING STRENGTH:

Sl. No.	Identification	Measured Size (mm)	Crushing Strength (N/sq.mm)	Requirement as per IS : 3952 – 2013
1	HP 150 – 1	399 x 151 x 203	4.2	Average crushing strength shall not be less than 3.5 N/sq.mm
2	HP 150 – 2	399 x 152 x 202	3.5	
3	HP 150 – 3	398 x 152 x 202	3.7	
4	HP 150 – 4	397 x 152 x 201	4.1	
5	HP 150 – 5	395 x 150 x 200	4.6	
6	HP 150 – 6	396 x 150 x 201	4.3	

II. WATER ABSORPTION:

Sl. No.	Measured Size (mm)	Water Absorption (% by wt)	Requirement as per IS : 3952 – 2013
1	399 x 151 x 203	14.8	The average water absorption shall not be more than 20%
2	399 x 152 x 202	14.0	
3	398 x 152 x 202	14.0	
4	397 x 152 x 201	13.4	
5	395 x 150 x 200	12.3	
6	396 x 150 x 201	13.0	

III. EFFLORESCENCE:

Sl No	Size of test specimen (mm)	Efflorescence	Requirement as per IS : 3952 – 2013
1	200 x 100 x 100	Slight	The bricks shall have a rating not more than 'Slight'
2	200 x 100 x 100	Slight	
3	200 x 100 x 100	Slight	
4	200 x 100 x 100	Slight	
5	200 x 100 x 100	Slight	
6	200 x 100 x 100	Slight	

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Ref: BVIPL/BLOCKS : BL/1348/2/2021/2
Test Order dated: 12.02.2021

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Date : 15.02.2021

IV. WINDING OR BOWING IN LENGTH DIMENSION:

Sl. No.	Measured Size (mm)	Winding or Bowing In Length Dimension (mm)	Requirement as per IS : 3952 – 2013
1	399 x 151 x 203	0.82	The distance between either straight edge and the adjacent face of the brick at any point shall not be more than 5mm
2	399 x 152 x 202	0.56	
3	398 x 152 x 202	1.15	
4	397 x 152 x 201	0.93	
5	395 x 150 x 200	1.14	
6	396 x 150 x 201	1.14	

V. CONCAVITY OR CONVEXITY IN THE EXTERNAL FACE OF BRICK:

Sl. No.	Measured Size (mm)	Concavity or Convexity In The External Face Of Brick (mm)	Requirement as per IS : 3952 – 2013
1	399 x 151 x 203	0.80	The distance between either straight edge and the adjacent face of the brick shall not be more than 5mm at any point on either diagonal
2	399 x 152 x 202	1.95	
3	398 x 152 x 202	1.15	
4	397 x 152 x 201	0.68	
5	395 x 150 x 200	1.14	
6	396 x 150 x 201	1.14	

VI. ANGLE BETWEEN SIDES AND JOINING EDGES:

Sl. No.	Size of test specimen (mm)	Angle Between Sides And Joining Edges (mm)	Requirement as per IS : 3952 – 2013
1	399 x 151 x 203	Nil	The maximum distance between the inner edge of the square and the side shall not be more than 5mm
2	399 x 152 x 202	1.15	
3	398 x 152 x 202	0.93	
4	397 x 152 x 201	Nil	
5	395 x 150 x 200	Nil	
6	396 x 150 x 201	Nil	

As furnished by the customer

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for BUREAU VERITAS (INDIA) PRIVATE LIMITED
Construction Services Laboratory


16/02/2021
SUSHEELA V. RAMANAN
Quality Manager



Ref: BVIPL/BLOCKS : BL/1348/2/2021/3
Test Order dated: 12.02.2021



1/2
Date : 15.02.2021

Wienerberger India Private Limited
Plot # 1 & 2, Phase – II, Gottigere Village,
Kunigal Industrial Area, Kunigal - 572 130.

TEST REPORT ON CLAY BRICKS

Source of sample : Samples tested at M/s Wienerberger Brick Industry Pvt. Ltd.
Laboratory
No. of samples tested : 36(Thirty Six)
UIN : 21006862
Customer's Reference : Letter Dated 06.02.2021
Project : Not furnished
Date of site visit : 12.02.2021
Date of test : 12.02.2021
Product / Date of Production # : POROTHERM HP 100 (T-90R2) – 16.01.2021
Condition of Sample : Satisfactory
Technical Reference : IS: 3952 – 2013 and IS:3495 -2019

I. CRUSHING STRENGTH:

Sl. No.	Identification	Measured Size (mm)	Crushing Strength (N/sq.mm)	Requirement as per IS : 3952 – 2013
1	HP 100 – 1	398 x 100 x 202	5.6	Average crushing strength shall not be less than 3.5 N/sq.mm
2	HP 100 – 2	395 x 99 x 202	5.6	
3	HP 100 – 3	394 x 99 x 202	6.6	
4	HP 100 – 4	393 x 99 x 201	6.2	
5	HP 100 – 5	396 x 99 x 202	4.9	
6	HP 100 – 6	394 x 99 x 202	7.0	

II. WATER ABSORPTION:

Sl. No.	Measured Size (mm)	Water Absorption (% by wt)	Requirement as per IS : 3952 – 2013
1	396 x 100 x 201	11.1	The average water absorption shall not be more than 20%
2	397 x 100 x 202	13.3	
3	397 x 101 x 202	13.6	
4	396 x 100 x 201	13.9	
5	396 x 99 x 202	13.1	
6	395 x 99 x 201	11.5	

III. EFFLORESCENCE:

Sl No	Size of test specimen (mm)	Efflorescence	Requirement as per IS : 3952 – 2013
1	200 x 100 x 100	Slight	The bricks shall have a rating not more than 'Slight'
2	200 x 100 x 100	Slight	
3	200 x 100 x 100	Slight	
4	200 x 100 x 100	Slight	
5	200 x 100 x 100	Slight	
6	200 x 100 x 100	Slight	

Contd.....

[Signature]
16/02/2021
SUSHEELA V. RAMANAN



Ref: BVIPL/BLOCKS : BL/1348/2/2021/3
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 Date : 15.02.2021

IV. WINDING OR BOWING IN LENGTH DIMENSION:

Sl. No.	Measured Size (mm)	Winding or Bowing In Length Dimension (mm)	Requirement as per IS : 3952 – 2013
1	396 x 100 x 201	0.44	The distance between either straight edge and the adjacent face of the brick at any point shall not be more than 5mm
2	397 x 100 x 202	0.44	
3	397 x 101 x 202	0.35	
4	396 x 100 x 201	0.65	
5	396 x 99 x 202	0.22	
6	395 x 99 x 201	0.55	

V. CONCAVITY OR CONVEXITY IN THE EXTERNAL FACE OF BRICK:

Sl. No.	Measured Size (mm)	Concavity or Convexity In The External Face Of Brick (mm)	Requirement as per IS : 3952 – 2013
1	396 x 100 x 201	0.23	The distance between either straight edge and the adjacent face of the brick shall not be more than 5mm at any point on either diagonal
2	397 x 100 x 202	Nil	
3	397 x 101 x 202	1.0	
4	396 x 100 x 201	0.33	
5	396 x 99 x 202	1.5	
6	395 x 99 x 201	0.65	

VI. ANGLE BETWEEN SIDES AND JOINING EDGES:

Sl. No.	Size of test specimen (mm)	Angle Between Sides And Joining Edges (mm)	Requirement as per IS : 3952 – 2013
1	396 x 100 x 201	0.44	The maximum distance between the inner edge of the square and the side shall not be more than 5mm
2	397 x 100 x 202	0.44	
3	397 x 101 x 202	0.80	
4	396 x 100 x 201	0.34	
5	396 x 99 x 202	Nil	
6	395 x 99 x 201	0.31	

As furnished by the customer

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 16/02/2021
SUSHEELA V. RAMANAN
 Quality Manager
