



Veermata Jijabai Technological Institute

(Central Technological Institute, Maharashtra State, INDIA)

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STRUCTURAL ENGINEERING DEPARTMENT TECHNICAL TEST REPORT

TST/1/STRUCT/CCTL-2019/ 450 / 5544

Date : 15.11.2019

01 JAN 2020

TESTED FOR : Pacific Refractories Ltd.
ADDRESS : C/16-3,
TTC MIDC Area,
Pawane, Thane Belapur Road,
Navi Mumbai 400 705.

REFERENCE & DATE : Nil Dated 07.11.2019.

NO. OF SAMPLES : 6 Compression, 3 Flexural, 3 Bond & 3 water absorption

DATE OF TESTING : 07.11.2019.

NATURE OF TEST : Test on Furan Mortar as per IS 4832(part II)1969.

SITE ADDRESS : Pacific Refractories Ltd.

OBSERVATION & RESULTS :

A) Compressive Strength Test :- (Date of cast 30.10.19)

Sr. No.	I.D. Marks	Size (mm) L x B x D	Weight (gm)	Ultimate Compressive Load (T)	Max Compressive Strength (N/mm ²)
1	*Nil	50 x 50 x 50	246	18.2	71.42
2	"	"	250	17.3	67.89
3	"	"	248	17.9	70.24
4	"	"	251	19.2	75.34
5	"	"	247	17.9	70.24
6	"	"	246	18.8	73.77

B) Flextural Test : (Date of cast 30.10.19)

Sr. No.	I.D. Marks	Size (mm) L x B x D	Span (mm)	Ultimate central Breaking Load (N)	Maximum Flexural Strength (N/mm ²)	Average Flexural Stress (N/mm ²)
1	Nil	300 x 25 x 25	250	1771	42.49	41.51
2	"	"	"	1679	40.30	
3	"	"	"	1739	41.73	

*Id mark was in paint. Hence age not reported.

CCTL-2019/450 contd.. on page 2

Solanki
Prof.J.G.Solanki
Testing Officer
Receipt No.742/07.11.2019.
For Rs.11200/-
Jgs/mac 15.11.2019 (CCTL-450).

Pendhari
Dr.S.S.Pendhari
Head,
Structural Engg.Dept.

Forwarded through The Director *DR Patel*


C) Bond Strength Test : (Date of cast 21.10.19)


Sr. No.	I.D. Marks	Area subjected to bond (mm)	Ultimate Breaking Load (N)	Bond Strength (N/mm ²)	Remarks
1	*Nil	112 x 112	14126.4	1.13	Failure in Bond
2	"	"	14518.8	1.16	Failure in Tile
3	"	"	14616.9	1.17	Failure in Tile

D) Water Absorption Test : (Date of cast 30.10.19)

Sr. No.	I.D. Marks	Size (mm) D x L x H	Oven Dry Wt.(gm.)	Saturated Wt.(gm)	% Water Absorption
1	*Nil	30 x 30 x 25	38.967	39.103	0.35
2	"	"	39.072	39.345	0.70
3	"	"	39.059	39.247	0.48

*Id mark was in paint. Hence age not reported.


Prof. J.G. Solanki
Testing Officer
 Receipt No. 742/07.11.2019.
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Dr. S.S. Pendhari
Head,
Structural Engg. Dept.

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