

University of Engineering and Technology, Lahore. Pakistan Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

ORIGINAL

A carbon copy for the report has been retained in the lab for record.

2837 Dr. Umbreen

To: OKAWA Concrete

Near Chak 42, Sheikhupura, Punjab.

Project: Nil

Our Ref. No. CL/CED/ 8195 Dated: 04-03-22 <u>Test Specification</u>

Your Ref. No. PSI/60/MM Dated: 24-02-22

COMPRESSION TEST REPORT

Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers

Specimens received on: 25-02-22 Tested on: 28-02-22 in dry/wet condition



(----)



| | | Coo | tina | Data* | Size | Wet | Dry | Area of | Ultimate | Ultimate | Water | |
|-------------------|---------------------------|---------------|------------|-------|-----------------|---------------------|-----------|-----------|------------|----------|----------|---------|
| Sr. No. | Mark* | Casting Date* | | | Size | Weight | Weight | X-Section | load | Stress | Absorpti | Remarks |
| | | | DD MM YYYY | | (in) | (Kg/ gms) | (Kg/ gms) | (Sq. in) | (Imp.Tons) | (psi) | on (%) | |
| 1 | Rectangular, Grev.60mm | | | | 7.8 x 3.9 x 2.3 | | 2600 | 30.42 | 49 | 3608 | | |
| 2 | Rectangular, Grev.60mm | | | | 7.8 x 3.9 x 2.3 | | 2530 | 30.42 | 41 | 3019 | | |
| 3 | Rectangular, Grev.60mm | | | | 7.8 x 3.9 x 2.3 | | 2500 | 30.42 | 33 | 2430 | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | CEINE | RINE | | | | | |
| 6 | | | | | | T NEAD W | CHIEF TO | X | | | | |
| 7 | | | | | | OE THY LIQKO WHI | - F | <u></u> | | | | |
| 8 | | | | | - SH | | | | | | | |
| 9 | | | | | | · | - 2 | | | | | |
| 10 | | | | | | " - LA | IORE. | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 10 10/:4:00:00 | | <u> </u> | <u> </u> | | | | | | | | | |

Witnessed by:

Results can also be seen on website https://civil.uet.edu.pk/concrete-laboratory-reports1/

- 1. * as engraved on the specimens (if any)
- 2. ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption
- 3. *** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength
- 4. **** ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as compressive strength

- 1. The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients)
- 2. The test results are recommended to be interpreted in the light of above factors by the engineer.



University of Engineering and Technology, Lahore. Pakistan Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

ORIGINAL orbon conv

A carbon copy for the report has been retained in the lab for record.

> 2745 Engr. Ubaid

To: Mr. Shahid Rafiq

Ijaz Construction Company.

Our Ref. No. CL/CED/ 8196

Project: Naubahar Bottling Company (Pvt) Ltd. Gujranwala.

i roject. Nadbanar Bottinig Company (i Vt) Etd. Cujianwala.

Your Ref. No. Nil Dated: 10-02-22

Dated:

04-03-22

COMPRESSION TEST REPORT

Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers

Specimens received on: 10-02-22 Tested on: 03-03-22 in dry/wet condition



Test Specification

(BS 3921**)



| Sr. No. | Mark* | Cas | ting | Date* | Size | Wet Weight | Dry Weight | Area of X-Section | | Ultimate Stress | Absorpti | Remarks |
|---------|-------|-----|------|-------|-----------------|--------------------------------|---------------|----------------------|------------|--------------------|----------|---------|
| | | DD | MM | YYYY | (in) | (Kg/ gms) | (Kg/ gms) | (Sq. in) | (Imp.Tons) | (psi) | on (%) | |
| 1 | Leaf | | | | 8.6 x 4.1 x 2.7 | 3170 | 2835 | 35.26 | 19 | 1207 | 11.82 | |
| 2 | Leaf | | | | 8.6 x 4.1 x 2.8 | 3305 | 2950 | 35.26 | 27 | 1715 | 12.03 | |
| 3 | Leaf | | | | 8.5 x 4.1 x 2.7 | 3110 | 2770 | 34.85 | 24 | 1543 | 12.27 | |
| 4 | Leaf | | | | 8.7 x 4.2 x 2.8 | 3350 | 3025 | 36.54 | 11 | 674 | 10.74 | |
| 5 | Leaf | | | | 8.5 x 4 x 2.7 | 3095 | 2815 | 34 | 18 | 1186 | 9.95 | |
| 6 | Leaf | | | | 8.5 x 4.1 x 2.7 | 3090 | 2830 | 34.85 | 17 | 1093 | 9.19 | |
| 7 | | | | | | DHE NAME OF THY LORD WHO | JE | - | | | | |
| 8 | | | | | - 63 | ر الما | | 8 - | | | | |
| 9 | | | | | | 7 | - | 7 | | | | |
| 10 | | | | | (| LA | IORE | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |

Witnessed by:

Results can also be seen on website https://civil.uet.edu.pk/concrete-laboratory-reports1/

- 1. * as engraved on the specimens (if any)
- 2. ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption
- 3. *** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength
- 4. **** ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as compressive strength

- 1. The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients)
- 2. The test results are recommended to be interpreted in the light of above factors by the engineer.



University of Engineering and Technology, Lahore. Pakistan Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

ORIGINAL

A carbon copy for the report has been retained in the lab for record.

> 2826 Engr. Ubaid

To: Syed Al-Imran Kazmi

Our Ref. No. CL/CED/ 8197

Engineering Cell, North-I, GS & RE Group, Lahore.

Project: Construction of ABL, G.T Road, Branch, Allahabad. (Strong & Locker Room Wall).

rioject. Construction of ABL, C.1 Road, Branch, Analiabad. (Ottong & Locker Room Wall).

Your Ref. No. GSRE-22/Con/N1/A1/1918 Dated: 22-02-22

COMPRESSION TEST REPORT

Dated:

04-03-22

Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers

Specimens received on: 24-02-22 Tested on: 03-03-22 in dry/wet condition



Test Specification

(ASTM C39)



| Sr. No. | Mark* | | | Date* | Size | Wet Weight | | Area of X-Section | load | Ultimate Stress | Water Absorpti on (%) | Remarks |
|---------|---------|----|----|-------|---------|---------------------------------|-----------|-------------------|------------|--------------------|-----------------------------|--------------|
| | | DD | MM | YYYY | (in) | (Kg/ gms) | (Kg/ gms) | (Sq. in) | (Imp.Tons) | (psi) | 011 (70) | |
| 1 | (1:2:4) | 27 | 1 | 2022 | 6Diax12 | | 14 | 28.28 | 39 | 3089 | | Non Engraved |
| 2 | (1:2:4) | 27 | 1 | 2022 | 6Diax12 | | 14 | 28.28 | 47 | 3723 | | Non Engraved |
| 3 | (1:2:4) | 27 | 1 | 2022 | 6Diax12 | | 14 | 28.28 | 53 | 4198 | | Non Engraved |
| 4 | | | | | | | | | | | | |
| 5 | | | | | / | GINE | RINE | | | | | |
| 6 | | | | | | READIN | 200 | | | | | |
| 7 | | | | | | DHE NAME OF THY LIDRO WHO | 16 | - | | | | |
| 8 | | | | | es | | | ON! | | | | |
| 9 | | | | | | | - 6 | | | | | |
| 10 | | | | | | "-LA | IORE. | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | - | | | | | | | | | |

Witnessed by:

Results can also be seen on website https://civil.uet.edu.pk/concrete-laboratory-reports1/

- 1. * as engraved on the specimens (if any)
- 2. ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption
- 3. *** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength
- 4. **** ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as compressive strength

- 1. The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients)
- 2. The test results are recommended to be interpreted in the light of above factors by the engineer.



University of Engineering and Technology, Lahore. Pakistan Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895 **ORIGINAL**

A carbon copy for the report has been retained in the lab for record.

> 2840 Engr. Ubaid

To: Lt. Col. (R) Habib ur Rehman Qaiser

Our Ref. No. CL/CED/ 8198

Project Director, GCC Lahore.

Project: Construction of Gulberg City Centre Lahore.

Your Ref. No. Dated: 25/02/2022

Dated:

04-03-22

COMPRESSION TEST REPORT

Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers

Specimens received on: 25/2/2022 Tested on: 03-03-22 in dry/wet condition



Test Specification

(ASTM C39)



| Sr. No. | Mark* | Cas | ting | Date* | Size | Wet Weight | Dry Weight | Area of X-Section | | Ultimate Stress | Absorpti | Remarks |
|------------|----------|-----|------|-------|---------|---------------------------------|---------------|----------------------|------------|--------------------|----------|--------------|
| | | DD | MM | YYYY | (in) | (Kg/ gms) | (Kg/ gms) | (Sq. in) | (Imp.Tons) | (psi) | on (%) | |
| 1 | 5000 Psi | 1 | 2 | 2022 | 6Diax12 | | 13.2 | 28.28 | 91 | 7208 | | Non Engraved |
| 2 | 5000 Psi | 1 | 2 | 2022 | 6Diax12 | | 13.2 | 28.28 | 86 | 6812 | | Non Engraved |
| 3 | 5000 Psi | 1 | 2 | 2022 | 6Diax12 | | 13.6 | 28.28 | 96 | 7604 | | Non Engraved |
| 4 | | | | | | | | | | | | |
| 5 | | | | | / | GINE | RINE | | | | | |
| 6 | | | | | | READIN | 200 | | | | | |
| 7 | | | | | | DHE NAME OF THY LIDRO WHO | JE | H | | | | |
| 8 | | | | | es | | | ONI | | | | |
| 9 | | | | | | | - 2 | 7 | | | | |
| 10 | | | | | < | "-LA | IORE. | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| \A/:4:0000 | | | | | | | | | | | · | |

Witnessed by:

Results can also be seen on website https://civil.uet.edu.pk/concrete-laboratory-reports1/

- 1. * as engraved on the specimens (if any)
- 2. ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption
- 3. *** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength
- 4. **** ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as compressive strength

- 1. The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients)
- 2. The test results are recommended to be interpreted in the light of above factors by the engineer.



University of Engineering and Technology, Lahore. Pakistan Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895 **ORIGINAL**

A carbon copy for the report has been retained in the lab for record.

> 2840 Engr. Ubaid

To: Lt. Col. (R) Habib ur Rehman Qaiser

Our Ref. No. CL/CED/ 8199

Project Director, GCC Lahore

Project: Construction of Gulberg City Centre Lahore.

Your Ref. No. Dated: 25/02/2022

Dated:

04-03-22

COMPRESSION TEST REPORT

Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers

Specimens received on: 25/2/2022 Tested on: 03-03-22 in dry/wet condition



Test Specification

(ASTM C39)



| Sr. No. | Mark* | | | Date* | Size (in) | Wet Weight (Ka/ ams) | Dry Weight (Kg/ gms) | Area of X-Section (Sq. in) | | Ultimate Stress (psi) | Water Absorpti on (%) | Remarks |
|---------|----------|----|---|-------|--------------|---------------------------------|----------------------------|----------------------------------|----|-----------------------------|-----------------------------|--------------|
| 1 | 6000 Psi | 29 | 1 | 2022 | 6Diax12 | | 14.2 | 28.28 | 81 | 6416 | | Non Engraved |
| 2 | 6000 Psi | 29 | 1 | 2022 | 6Diax12 | | 14 | 28.28 | 93 | 7366 | | Non Engraved |
| 3 | 6000 Psi | 29 | 1 | 2022 | 6Diax12 | | 14.2 | 28.28 | 71 | 5624 | | Non Engraved |
| 4 | | | | | | | | | | | | |
| 5 | | | | | / | CTME | RING | | | | | |
| 6 | | | | | | READW | 200 | | | | | |
| 7 | | | | | | DHE NAME OF THY LIDRO WHO | 1 | EFF - | | | | |
| 8 | | | | | 00 | | | | | | | |
| 9 | | | | | | , | - | | | | | |
| 10 | | | | | < | -LA | IORE. | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |

Witnessed by:

Results can also be seen on website https://civil.uet.edu.pk/concrete-laboratory-reports1/

- 1. * as engraved on the specimens (if any)
- 2. ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption
- 3. *** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength
- 4. **** ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as compressive strength

- 1. The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients)
- 2. The test results are recommended to be interpreted in the light of above factors by the engineer.



University of Engineering and Technology, Lahore. Pakistan Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

ORIGINAL

A carbon copy for the report has been retained in the lab for record.

> 2839 Dr. Umbreen

To: Sub Divisional Officer

Buildings Sub Division Nankana Sahib

Project: Construction of 3 Nos Additional Class Rooms at Govt Boys Primary School Sheikh Da Kot Tehsil

& District Nankana Sahib.

Our Ref. No. CL/CED/ 8200 Dated: 04-03-22

Your Ref. No. 793/SDO/BSD/NNS Dated: 20/2/2022

Test Specification (----)

COMPRESSION TEST REPORT

Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers

Specimens received on: 25/02/2022 Tested on: 28/02/2022 in dry/wet condition





| Sr. No. | r. No. Mark* | | ting | Date* | Size | Wet Weight | Dry Weight | Area of X-Section | | Ultimate Stress | Absorpti | Remarks |
|---------|--------------|--|------|-------|-----------------|---------------------------------|---------------|----------------------|------------|--------------------|----------|---------|
| | | | MM | YYYY | (in) | (Kg/ gms) | (Kg/ gms) | (Sq. in) | (Imp.Tons) | (psi) | on (%) | |
| 1 | HNS | | | | 8.8 x 4.2 x 3 | | 3025 | 36.96 | 31 | 1879 | | |
| 2 | HNS | | | | 8.8 x 4.3 x 2.8 | | 3035 | 37.84 | 25 | 1480 | | |
| 3 | HNS | | | - | 8.7 x 4.3 x 3 | | 3060 | 37.41 | 45 | 2694 | | |
| 4 | BABUG | | | | 8.7 x 4.2 x 2.9 | | 3255 | 36.54 | 46 | 2820 | | |
| 5 | BABUG | | | | 8.9 x 4.3 x 2.9 | GINE | 3260 | 38.27 | 33 | 1932 | | |
| 6 | BABUG | | | | 8.7 x 4.3 x 2.9 | READIN | 3255 | 37.41 | 45 | 2694 | | |
| 7 | | | | - | | DHE NAME OF THY LIDRO WHO | -E | = | | | | |
| 8 | | | | - | es | | | | | | | |
| 9 | | | | | | <u></u> | | | | | | |
| 10 | | | | | 🤇 | "-LA | IORE | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | - | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |

Witnessed by:

Results can also be seen on website https://civil.uet.edu.pk/concrete-laboratory-reports1/

- 1. * as engraved on the specimens (if any)
- 2. ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption
- 3. *** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength
- 4. **** ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as comprerssive strength

- 1. The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients)
- 2. The test results are recommended to be interpreted in the light of above factors by the engineer.



University of Engineering and Technology, Lahore. Pakistan Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

ORIGINAL

A carbon copy for the report has been retained in the lab for record.

> 2768 Engr. Ubaid

To: Sub Divisional Officer

Your Ref. No.

Buildings Sub Division No. 9 Lahore.

96/9th

Project: "Master Planning of Qurban Lines, Lahore Phase-1" Construction of BS (18-19) Apartments at

Qurban Lines, Lahore.

Our Ref. No. CL/CED/ 8201

Dated: 04-03-22

Test Specification

(BS 3921**)

Dated: 04-02-22

COMPRESSION TEST REPORT

Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers

Specimens received on: 14/02/2022 Tested on: 03-03-22 in dry/wet condition





| Mark* | Cas | ting | Date* | Size | Wet Weight | Dry Weight | Area of X-Section | | Ultimate Stress | Absorpti | Remarks |
|-------|-------------|-----------------------------------|--|--|--|--|----------------------|------------|--------------------|--|---------|
| | DD | MM | YYYY | (in) | (Kg/ gms) | (Kg/ gms) | (Sq. in) | (Imp.Tons) | (psi) | on (%) | |
| RA | | | | 9 x 4.3 x 3.1 | 3825 | 3295 | 38.7 | 28 | 1621 | 16.08 | |
| RA | | | | 9 x 4.3 x 3 | 3900 | 3465 | 38.7 | 54 | 3126 | 12.55 | |
| RA | | | | 9 x 4.4 x 3 | 3925 | 3430 | 39.6 | 40 | 2263 | 14.43 | |
| RA | | | | 9 x 4.5 x 3.1 | 3945 | 3470 | 40.5 | 26 | 1438 | 13.69 | |
| RA | | | | 8.9 x 4.3 x 3 | 3865 | 3385 | 38.27 | 54 | 3161 | 14.18 | |
| RA | | | | 8.8 x 4.3 x 3 | 4015 | 3520 | 37.84 | 45 | 2664 | 14.06 | |
| | | | | | DHE NAME OF THY LIGHT WHO | - F | # | | | | |
| | | | | es | ر المال | | 8 - | | | | |
| | | | | |), | - | | | | | |
| | | | | < | -LA | IORE | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | RA RA RA RA | Mark* DD RA RA RA RA RA RA | Mark* DD MM RA RA RA RA RA RA RA RA RA RA | DD MM YYYY RA RA | Mark* DD MM YYYY (in) RA 9 x 4.3 x 3.1 RA 9 x 4.3 x 3 RA 9 x 4.4 x 3 RA 9 x 4.5 x 3.1 RA 8.9 x 4.3 x 3 RA 8.8 x 4.3 x 3 | Mark* Casting Date* Size Weight DD MM YYYY (in) (Kg/gms) RA 9 x 4.3 x 3.1 3825 RA 9 x 4.3 x 3 3900 RA 9 x 4.4 x 3 3925 RA 9 x 4.5 x 3.1 3945 RA 8.9 x 4.3 x 3 3865 RA 8.8 x 4.3 x 3 4015 | Mark* DD MM YYYY | Mark* | Mark* | Mark* Casting Date* Size Weight (Kg/gms) (Kg/gms) (Kg/gms) (Sq. in) (Imp.Tons) (psi) X-Section (Imp.Tons) (psi) RA 9 x 4.3 x 3.1 3825 3295 38.7 28 1621 RA 9 x 4.3 x 3 3900 3465 38.7 54 3126 RA 9 x 4.4 x 3 3925 3430 39.6 40 2263 RA 9 x 4.5 x 3.1 3945 3470 40.5 26 1438 RA 8.9 x 4.3 x 3 3865 3385 38.27 54 3161 RA 8.8 x 4.3 x 3 4015 3620 37.84 45 2664 <td>Mark*</td> | Mark* |

Witnessed by:

Results can also be seen on website https://civil.uet.edu.pk/concrete-laboratory-reports1/

- 1. * as engraved on the specimens (if any)
- 2. ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption
- 3. *** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength
- 4. **** ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as comprerssive strength

- 1. The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients)
- 2. The test results are recommended to be interpreted in the light of above factors by the engineer.



University of Engineering and Technology, Lahore. Pakistan Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

ORIGINAL

A carbon copy for the report has been retained in the lab for record.

> 2778 Engr. Ubaid

To: Mr. Ahsan Zubair

Resident Engineer, NESPAK (Pvt) Ltd.

Project: Upgradation/Dualization of Main Barki Road from Lahore School of Economics to BRB Canal

Bridge Lahore.

Our Ref. No. CL/CED/ 8202 Dated: 04-03-22

Your Ref. No. 4042/03/AZ/2/06 Dated: 28/01/2022

Test Specification
(BS 3921**)

COMPRESSION TEST REPORT

Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers

Specimens received on: 16/02/2022 Tested on: 03-03-22 in dry/wet condition





| Mark* | Cas | ting | Date* | Size | Wet Weight | Dry Weight | Area of X-Section | Ultimate load | | Absorpti | Remarks |
|-------|---|--|---|---|---|---------------------|--|--|---|---|---|
| | DD | MM | YYYY | (in) | (Kg/ gms) | (Kg/ gms) | (Sq. in) | (Imp.Tons) | (psi) | on (%) | |
| MS | | | | 8.6 x 4.2 x 3 | 3680 | 3290 | 36.12 | 30 | 1860 | 11.85 | |
| MS | | | | 8.6 x 4.2 x 2.7 | 3560 | 3190 | 36.12 | 33 | 2047 | 11.6 | |
| MS | | | | 8.7 x 4.2 x 2.9 | 3565 | 3160 | 36.54 | 26 | 1594 | 12.82 | |
| MS | | | | 8.7 x 4.2 x 2.9 | 3660 | 3280 | 36.54 | 40 | 2452 | 11.59 | |
| MS | | | | 8.6 x 4.2 x 2.8 | 3525 | 3195 | 36.12 | 38 | 2357 | 10.33 | |
| ASK | | | | 8.6 x 4.3 x 2.7 | 3130 | 2645 | 36.98 | 26 | 1575 | 18.34 | |
| ASK | | | | 8.7 x 4.2 x 2.8 | 3070 | 2540 | 36.54 | 30 | 1839 | 20.87 | |
| ASK | | | | 8.6 x 4.1 x 2.7 | 3375 | 2935 | 35.26 | 20 | 1271 | 14.99 | |
| ASK | | | | 8.8 x 4.2 x 2.9 | 3440 | 2925 | 36.96 | 28 | 1697 | 17.61 | |
| ASK | | | | 8.7 x 4.2 x 2.8 | 3470 | 2995 | 36.54 | 30 | 1839 | 15.86 | |
| s | | | | 8.8 x 4.3 x 2.7 | 3425 | 2975 | 37.84 | 28 | 1658 | 15.13 | |
| s | | | | 8.9 x 4.3 x 2.7 | 3445 | 2930 | 38.27 | 28 | 1639 | 17.58 | |
| s | | | | 8.7 x 4.3 x 2.7 | 3365 | 3155 | 37.41 | 30 | 1796 | 6.66 | |
| s | | | | 8.7 x 4.3 x 2.8 | 3435 | 2980 | 37.41 | 48 | 2874 | 15.27 | |
| s | | | | 8.8 x 4.3 x 2.8 | 3625 | 3165 | 37.84 | 26 | 1539 | 14.53 | |
| | | | | | | | | | | | |
| | MS MS MS MS MS MS ASK ASK ASK ASK S S S | Mark* DD MS MS MS MS MS ASK ASK ASK S S S S | Mark* DD MM MS MS MS MS MS S S S | MS MS MS MS MS MS MS ASK ASK ASK S S | Mark* DD MM YYYY (in) MS 8.6 x 4.2 x 2.7 MS 8.7 x 4.2 x 2.9 MS 8.6 x 4.2 x 2.9 MS 8.6 x 4.2 x 2.9 MS 8.6 x 4.2 x 2.8 ASK 8.6 x 4.3 x 2.7 ASK 8.6 x 4.1 x 2.7 ASK 8.8 x 4.2 x 2.8 ASK 8.8 x 4.2 x 2.9 ASK 8.8 x 4.2 x 2.9 ASK 8.8 x 4.2 x 2.9 ASK 8.7 x 4.2 x 2.8 S 8.7 x 4.2 x 2.8 S 8.7 x 4.2 x 2.8 S 8.7 x 4.3 x 2.7 S 8.7 x 4.3 x 2.7 S 8.7 x 4.3 x 2.8 S 8.7 x 4.3 x 2.8 | Mark* DD MM YYYY | Mark* Casting Date* Size Weight Weight DD MM YYYY (in) (Kg/ gms) (Kg/ gms) MS 8.6 x 4.2 x 3 3680 3290 MS 8.6 x 4.2 x 2.7 3560 3190 MS 8.7 x 4.2 x 2.9 3660 3280 MS 8.6 x 4.2 x 2.8 3525 3195 ASK 8.6 x 4.3 x 2.7 3130 2645 ASK 8.6 x 4.1 x 2.7 3375 2935 ASK 8.6 x 4.1 x 2.7 3375 2935 ASK 8.8 x 4.2 x 2.9 3440 2925 ASK 8.7 x 4.2 x 2.8 3470 2995 S 8.9 x 4.3 x 2.7 3445 2930 S 8.7 x 4.3 x 2.8 3435 2980 S <td< td=""><td>Mark* Casting Date* Size Weight (Kg/gms) X-Section (Sq. in) MS 8.6 x 4.2 x 3 3680 3290 36.12 MS 8.6 x 4.2 x 2.7 3560 3190 36.12 MS 8.7 x 4.2 x 2.9 3665 3160 36.54 MS 8.7 x 4.2 x 2.9 3660 3280 36.54 MS 8.6 x 4.2 x 2.8 3525 3195 36.12 ASK 8.6 x 4.2 x 2.8 3525 3195 36.12 ASK 8.6 x 4.2 x 2.8 3525 3195 36.12 ASK 8.6 x 4.2 x 2.8 3070 2645 36.98 ASK 8.6 x 4.1 x 2.7 3375 2935 35.26 ASK 8.8 x 4.2 x 2.9 3440 2925 36.94 <tr< td=""><td>Mark* Casting Date* Size Weight (Kg/gms) X-Section (Sq. in) Load (Imp.Tons) MS 8.6 x 4.2 x 3 3680 3290 36.12 30 MS 8.6 x 4.2 x 2.7 3560 3190 36.12 33 MS 8.7 x 4.2 x 2.9 3565 3160 36.54 26 MS 8.7 x 4.2 x 2.9 3660 3280 36.54 40 MS 8.6 x 4.2 x 2.8 3525 3195 36.12 38 ASK 8.6 x 4.3 x 2.7 3130 2645 36.98 26 ASK 8.7 x 4.2 x 2.8 3070 2540 36.54 30 ASK 8.6 x 4.1 x 2.7 3375 2935 35.26 20 ASK 8.7 x 4.2 x 2.8 3470 2995 36.54 30 S</td><td>Mark* Casting Date* Size Weight (Kg/gms) Weight (Kg/gms) X-Section (Sq. in) load (Imp.Tons) Stress (psi) MS 8.6 x 4.2 x 2.7 3680 3290 36.12 30 1860 MS 8.6 x 4.2 x 2.7 3560 3190 36.12 33 2047 MS 8.7 x 4.2 x 2.9 3565 3160 36.54 26 1594 MS 8.7 x 4.2 x 2.9 3660 3280 36.54 40 2452 MS 8.6 x 4.2 x 2.8 3525 3195 36.12 38 2357 ASK 8.6 x 4.3 x 2.7 3130 2645 36.98 26 1575 ASK 8.6 x 4.1 x 2.7 3375 2935 35.26 20 1271 ASK 8.8 x 4.2 x 2.9 3440 2925 36.96 28 1697 <td>Mark* Casting Date* Size Weight Weight (Kg/gms) Weight (Kg/gms) X-Section (Sq. in) (Imp.Tons) Value (psi) on (%) on (%) MS 8.6 x 4.2 x 3 3680 3290 36.12 30 1860 11.85 MS 8.6 x 4.2 x 2.7 3560 3190 36.12 33 2047 11.6 MS 8.7 x 4.2 x 2.9 3565 3160 36.54 26 1594 12.82 MS 8.7 x 4.2 x 2.9 3660 3280 36.54 40 2452 11.59 MS 8.6 x 4.2 x 2.8 3525 3195 36.12 38 2357 10.33 ASK 8.6 x 4.3 x 2.7 3130 2645 36.98 26 1575 18.34 ASK 8.6 x 4.1 x 2.7 3375 2935 35.26 20 1271 14.99 ASK </td></td></tr<></td></td<> | Mark* Casting Date* Size Weight (Kg/gms) X-Section (Sq. in) MS 8.6 x 4.2 x 3 3680 3290 36.12 MS 8.6 x 4.2 x 2.7 3560 3190 36.12 MS 8.7 x 4.2 x 2.9 3665 3160 36.54 MS 8.7 x 4.2 x 2.9 3660 3280 36.54 MS 8.6 x 4.2 x 2.8 3525 3195 36.12 ASK 8.6 x 4.2 x 2.8 3525 3195 36.12 ASK 8.6 x 4.2 x 2.8 3525 3195 36.12 ASK 8.6 x 4.2 x 2.8 3070 2645 36.98 ASK 8.6 x 4.1 x 2.7 3375 2935 35.26 ASK 8.8 x 4.2 x 2.9 3440 2925 36.94 <tr< td=""><td>Mark* Casting Date* Size Weight (Kg/gms) X-Section (Sq. in) Load (Imp.Tons) MS 8.6 x 4.2 x 3 3680 3290 36.12 30 MS 8.6 x 4.2 x 2.7 3560 3190 36.12 33 MS 8.7 x 4.2 x 2.9 3565 3160 36.54 26 MS 8.7 x 4.2 x 2.9 3660 3280 36.54 40 MS 8.6 x 4.2 x 2.8 3525 3195 36.12 38 ASK 8.6 x 4.3 x 2.7 3130 2645 36.98 26 ASK 8.7 x 4.2 x 2.8 3070 2540 36.54 30 ASK 8.6 x 4.1 x 2.7 3375 2935 35.26 20 ASK 8.7 x 4.2 x 2.8 3470 2995 36.54 30 S</td><td>Mark* Casting Date* Size Weight (Kg/gms) Weight (Kg/gms) X-Section (Sq. in) load (Imp.Tons) Stress (psi) MS 8.6 x 4.2 x 2.7 3680 3290 36.12 30 1860 MS 8.6 x 4.2 x 2.7 3560 3190 36.12 33 2047 MS 8.7 x 4.2 x 2.9 3565 3160 36.54 26 1594 MS 8.7 x 4.2 x 2.9 3660 3280 36.54 40 2452 MS 8.6 x 4.2 x 2.8 3525 3195 36.12 38 2357 ASK 8.6 x 4.3 x 2.7 3130 2645 36.98 26 1575 ASK 8.6 x 4.1 x 2.7 3375 2935 35.26 20 1271 ASK 8.8 x 4.2 x 2.9 3440 2925 36.96 28 1697 <td>Mark* Casting Date* Size Weight Weight (Kg/gms) Weight (Kg/gms) X-Section (Sq. in) (Imp.Tons) Value (psi) on (%) on (%) MS 8.6 x 4.2 x 3 3680 3290 36.12 30 1860 11.85 MS 8.6 x 4.2 x 2.7 3560 3190 36.12 33 2047 11.6 MS 8.7 x 4.2 x 2.9 3565 3160 36.54 26 1594 12.82 MS 8.7 x 4.2 x 2.9 3660 3280 36.54 40 2452 11.59 MS 8.6 x 4.2 x 2.8 3525 3195 36.12 38 2357 10.33 ASK 8.6 x 4.3 x 2.7 3130 2645 36.98 26 1575 18.34 ASK 8.6 x 4.1 x 2.7 3375 2935 35.26 20 1271 14.99 ASK </td></td></tr<> | Mark* Casting Date* Size Weight (Kg/gms) X-Section (Sq. in) Load (Imp.Tons) MS 8.6 x 4.2 x 3 3680 3290 36.12 30 MS 8.6 x 4.2 x 2.7 3560 3190 36.12 33 MS 8.7 x 4.2 x 2.9 3565 3160 36.54 26 MS 8.7 x 4.2 x 2.9 3660 3280 36.54 40 MS 8.6 x 4.2 x 2.8 3525 3195 36.12 38 ASK 8.6 x 4.3 x 2.7 3130 2645 36.98 26 ASK 8.7 x 4.2 x 2.8 3070 2540 36.54 30 ASK 8.6 x 4.1 x 2.7 3375 2935 35.26 20 ASK 8.7 x 4.2 x 2.8 3470 2995 36.54 30 S | Mark* Casting Date* Size Weight (Kg/gms) Weight (Kg/gms) X-Section (Sq. in) load (Imp.Tons) Stress (psi) MS 8.6 x 4.2 x 2.7 3680 3290 36.12 30 1860 MS 8.6 x 4.2 x 2.7 3560 3190 36.12 33 2047 MS 8.7 x 4.2 x 2.9 3565 3160 36.54 26 1594 MS 8.7 x 4.2 x 2.9 3660 3280 36.54 40 2452 MS 8.6 x 4.2 x 2.8 3525 3195 36.12 38 2357 ASK 8.6 x 4.3 x 2.7 3130 2645 36.98 26 1575 ASK 8.6 x 4.1 x 2.7 3375 2935 35.26 20 1271 ASK 8.8 x 4.2 x 2.9 3440 2925 36.96 28 1697 <td>Mark* Casting Date* Size Weight Weight (Kg/gms) Weight (Kg/gms) X-Section (Sq. in) (Imp.Tons) Value (psi) on (%) on (%) MS 8.6 x 4.2 x 3 3680 3290 36.12 30 1860 11.85 MS 8.6 x 4.2 x 2.7 3560 3190 36.12 33 2047 11.6 MS 8.7 x 4.2 x 2.9 3565 3160 36.54 26 1594 12.82 MS 8.7 x 4.2 x 2.9 3660 3280 36.54 40 2452 11.59 MS 8.6 x 4.2 x 2.8 3525 3195 36.12 38 2357 10.33 ASK 8.6 x 4.3 x 2.7 3130 2645 36.98 26 1575 18.34 ASK 8.6 x 4.1 x 2.7 3375 2935 35.26 20 1271 14.99 ASK </td> | Mark* Casting Date* Size Weight Weight (Kg/gms) Weight (Kg/gms) X-Section (Sq. in) (Imp.Tons) Value (psi) on (%) on (%) MS 8.6 x 4.2 x 3 3680 3290 36.12 30 1860 11.85 MS 8.6 x 4.2 x 2.7 3560 3190 36.12 33 2047 11.6 MS 8.7 x 4.2 x 2.9 3565 3160 36.54 26 1594 12.82 MS 8.7 x 4.2 x 2.9 3660 3280 36.54 40 2452 11.59 MS 8.6 x 4.2 x 2.8 3525 3195 36.12 38 2357 10.33 ASK 8.6 x 4.3 x 2.7 3130 2645 36.98 26 1575 18.34 ASK 8.6 x 4.1 x 2.7 3375 2935 35.26 20 1271 14.99 ASK |

Witnessed by:

Results can also be seen on website https://civil.uet.edu.pk/concrete-laboratory-reports1/

- 1. * as engraved on the specimens (if any)
- 2. ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption
- 3. *** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength
- 4. **** ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as comprerssive strength

- 1. The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients)
- 2. The test results are recommended to be interpreted in the light of above factors by the engineer.