



Plain and Reinforced Concrete Laboratory

Department of Civil Engineering

University of Engineering and Technology, Lahore

Phone Nos. 042-99029202, 042-99029217

664

Dr.Ambreen

To: **Mr.M. Shahbaz Iqbal**
BPS (Pvt.) Ltd.
Project: Alpha Homes (Aparments)

Our Ref. No. CL/CED/ 2132 Dated: 18-02-21

Your Ref. No. Nil Dated: 10-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 10-02-21 Tested on: 16-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* /Wet Weight (gms) | | | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|----------------------------|---------------------------------------|---|----|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | 9 | 1 | 21 | | | | | | |
| 1 | Retailing Wall (Grad A) | 9 | 1 | 21 | 6Diax12 | 13.6 | 28.28 | 67 | 5310 | Non Engraved |
| 2 | Retailing Wall (Grad A) | 9 | 1 | 21 | 6Diax12 | 13.4 | 28.28 | 75 | 5950 | Non Engraved |
| 3 | Retailing Wall (Grad A) | 9 | 1 | 21 | 6Diax12 | 14 | 28.28 | 75 | 5950 | Non Engraved |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* as engraved on the specimens (if any)

** BS3921 requires average of ten clay brick samples for crushing strength and water absorption

*** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

**** ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

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

supervisor(lab)

Director/Dy. Director Concrete Laboratory



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Department of Civil Engineering
 University of Engineering and Technology, Lahore
 Phone Nos. 042-99029202, 042-99029217

664

Dr.Ambreen

To: Mr.M. Shahbaz Iqbal
BPS (Pvt.) Ltd.
Project: Alpha Homes (Apartments)

Our Ref. No. CL/CED/ 2133 Dated: 18-02-21

Your Ref. No. Nil Dated: 10-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 10-02-21 Tested on: 16-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X-Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|----------|------------------|---|----|-----------|-------------------|----------------------------|--------------------------|-----------------------|--------------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | Ramp Pad | 12 | 1 | 21 | 6Diax12 | 14 | 28.28 | 41 | 3250 | Non Engraved |
| 2 | Ramp Pad | 12 | 1 | 21 | 6Diax12 | 13.4 | 28.28 | 71 | 5630 | Non Engraved |
| 3 | Ramp Pad | 12 | 1 | 21 | 6Diax12 | 14 | 28.28 | 39 | 3090 | Non Engraved |
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664

Dr.Ambreen

To: **Mr.M. Shahbaz Iqbal**
BPS (Pvt.) Ltd.
Project: Alpha Homes (Apartments)

Our Ref. No. CL/CED/ 2134 Dated: 18-02-21

Your Ref. No. Nil Dated: 10-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 10-02-21 Tested on: 16-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X-Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|----------------------|-------------------|---|----|-----------|-------------------|----------------------------|--------------------------|-----------------------|--------------|
| | | /Wet Weight (gms) | | | | | | | | |
| 1 | Column B-C/ 32-35 | 11 | 1 | 21 | 6Diax12 | 14 | 28.28 | 59 | 4680 | Non Engraved |
| 2 | Column B-C/ 32-35 | 11 | 1 | 21 | 6Diax12 | 14 | 28.28 | 45 | 3570 | Non Engraved |
| 3 | Column B-C/ 32-35 | 11 | 1 | 21 | 6Diax12 | 14.6 | 28.28 | 61 | 4840 | Non Engraved |
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supervisor(lab)

Director/Dy. Director Concrete Laboratory



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Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

706

Dr. Umbreen

To: **Consultant (Takbeer Tower)**
Mecload Road, Lahore.

Project: Takbeer Tower, Mecload Road, Lahore.

Our Ref. No. CL/CED/ 2135-1 of 2 Dated: 18-02-21

Your Ref. No. Nil Dated: 17-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 17-02-21 Tested on: 18-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X-Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|-------|-------------------|---|----|-----------|-------------------|----------------------------|--------------------------|-----------------------|----------|
| | | /Wet Weight (gms) | | | | | | | | |
| 1 | | 3 | 1 | 21 | 6Diax12 | 14.4 | 28.28 | 19 | 1510 | Engraved |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
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Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

706

Dr. Umbreen

To: Consultant (Takbeer Tower)
Mecload Road, Lahore
Project: Takbeer Tower, Mecload Road, Lahore

Our Ref. No. CL/CED/ 2135-2 of 2 Dated: 18-02-21

Your Ref. No. Nil Dated: 17-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 17-02-21 Tested on: 18-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* /Wet Weight (gms) | | | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|-------|---------------------------------------|---|----|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|----------|
| | | 3 | 1 | 21 | | | | | | |
| 1 | | 3 | 1 | 21 | 6x6x6 | 9 | 36 | 41 | 2560 | Engraved |
| 2 | | | | | | | | | | |
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665

To: Mr. Hassan Khan Sherwani (Provincial Construction Supervision Manager)

Dr. Ambreen

Humqadam SCRП (M/s Sardar Gohar)

Project: Humqadam-School Construction and Rehabilitation Programme IMC World Wide (GGPS Narmal Kay)

Our Ref. No. CL/CED/

2137

Dated:

18-02-21

Your Ref. No.

IMC-LHR/SCRП/2020/

MaterialTesting/LHR-1

Dated:

08-01-21

COMPRESSION TEST REPORT

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

Specimens received

on:

11-02-21

Tested on:

16-02-21

in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|-------------|----------------------|---|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| | | /Wet Weight (gms) | | | | | | | | |
| 1 | Mortar Cube | 15 | 1 | 2021 | 2.0x2.0x2.0 | 281 | 4 | 14 | 7720 | |
| 2 | Mortar Cube | 15 | 1 | 2021 | 2.0x2.0x2.0 | 279 | 4 | 14 | 7720 | |
| 3 | Mortar Cube | 15 | 1 | 2021 | 2.0x2.0x2.0 | 289 | 4 | 7 | 3860 | |
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Plain and Reinforced Concrete Laboratory

Department of Civil Engineering

University of Engineering and Technology, Lahore

Phone Nos. 042-99029202, 042-99029217

667

Dr. Ambreen

To: Mr. Muhammad jameel (Construction Manager)

Mughals (Pvt) Ltd. Lahore.

Project: Construction of EOBI Hotel & Mixed Use Development, Lahore.

Our Ref. No. CL/CED/ 2137 Dated: 18-02-21

Your Ref. No. 786/MPL-0064/090210/2021 Dated: 09-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 11-02-21 Tested on: 12-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X-Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|-------------------------|------------------|---|----|-----------|-------------------|----------------------------|--------------------------|-----------------------|----------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | Portal Frame (4000) PSi | 12 | 1 | 21 | 6Diax12 | 14.2 | 28.28 | 73 | 5790 | Engraved |
| 2 | Portal Frame (4000) PSi | 12 | 1 | 21 | 6Diax12 | 14.6 | 28.28 | 79 | 6260 | Engraved |
| 3 | Portal Frame (4000) PSi | 12 | 1 | 21 | 6Diax12 | 14.4 | 28.28 | 78 | 6180 | Engraved |
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The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients). The test results are recommended to be interpreted in the light of above factors by the engineer.

supervisor(lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

674

To: Mr. Muhammad Aslam (Manager C,R,&M)
Allied Bank Limited, Engineering Cell, South-II , Abdali Tower, Abdali Road Multan.
Project: Construction of High Street, Sahiwal (0352)

Dr. Ambreen

Our Ref. No. CL/CED/ 2138 Dated: 18-02-21

Your Ref. No. GHQ/S2/CRM/MA/2021/32-A Dated: 08-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 12-02-21 Tested on: 16-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X-Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|-----------------|------------------|---|----|-----------|-------------------|----------------------------|--------------------------|-----------------------|--------------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | Mummtly Columns | 11 | 1 | 21 | 6Diax12 | 13 | 28.28 | 47 | 3730 | Non Engraved |
| 2 | Mummtly Columns | 11 | 1 | 21 | 6Diax12 | 12.4 | 28.28 | 53 | 4200 | Non Engraved |
| 3 | Mummtly Columns | 11 | 1 | 21 | 6Diax12 | 12.4 | 28.28 | 53 | 4200 | Non Engraved |
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Note: Above results pertain to the unsealed samples supplied to the laboratory

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

supervisor(lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

610

To: **Mr. Muhammad Saleem (GM)**

Engr. Abdul Rehman

Professional Construction Services (Pvt.) Lahore

Project: Construction of Allied Bank Limited DHA Phase 8c Ex Park View Lahore.

Our Ref. No. CL/CED/ 2139 Dated: 18-02-21

Your Ref. No. PCS/2021/Eng-22 Dated: 03-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 03-02-21 Tested on: 17-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X-Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|---------------|-------------------|---|------|-----------|-------------------|----------------------------|--------------------------|-----------------------|--------------|
| | | /Wet Weight (gms) | | | | | | | | |
| 1 | (1 : 2 : 4) | 7 | 1 | 2021 | 6Diax12 | 14 | 28.28 | 51 | 4040 | Non Engraved |
| 2 | (1 : 2 : 4) | 7 | 1 | 2021 | 6Diax12 | 14 | 28.28 | 49 | 3890 | Non Engraved |
| 3 | | | | | | | | | | |
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** BS3921 requires average of ten clay brick samples for crushing strength and water absorption

*** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

**** ACI318-08 requires mean of two sample (6" dia x 12" cylinder) strength at 28 days as compressive strength

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Director/Dy. Director Concrete Laboratory



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Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

675

Dr. Mazar

To: Deputy Director Engg. Sec I& II, Package -1, LOLMTP

LDA, Lahore. (M/S Awais International)

Project: Construction of Baghbanpura Police Station GT Road Lahore. (Orange Line Metro Train Project (Package-1))

Our Ref. No. CL/CED/

2140

Dated:

18-02-21

Your Ref. No.

DD/PKG/-
1/LOLMTP/LDA/12

Dated:

09-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 12-02-21 Tested on: 15-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|-------|---------------|-----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|----------|
| | | Month | Day | Year | | | | | | |
| 1 | | 12 | 1 | 2021 | 6x6x6 | 9 | 36 | 96 | 5980 | Engraved |
| 2 | | 12 | 1 | 2021 | 6x6x6 | 9 | 36 | 104 | 6480 | Engraved |
| 3 | | 12 | 1 | 2021 | 6x6x6 | 9 | 36 | 100 | 6230 | Engraved |
| 4 | | | | | | | | | | |
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** BS3921 requires average of ten clay brick samples for crushing strength and water absorption

*** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

**** ACI318-08 requires mean of two sample (6" dia x 12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

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

supervisor(lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

673

To: **Mr. Naveed Abbas (Site Engineer)**

Dr. Ambreen

Ittefaq Construction Associates, Lahore.

Project: Construction of Commercial Building, Plot # 330, Block-G/3 Johar Town, Lahore.

Our Ref. No. CL/CED/ 2141 Dated: 18-02-21

Your Ref. No. ICA/330/G3/05 Dated: 12-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 12-02-21 Tested on: 16-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X-Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|------------------|-------------------|---|------|-----------|-------------------|----------------------------|--------------------------|-----------------------|----------|
| | | /Wet Weight (gms) | | | | | | | | |
| 1 | Column(4000) Psi | 2 | 2 | 2021 | 6Diax12 | 14 | 28.28 | 35 | 2780 | Engraved |
| 2 | | | | | | | | | | |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* as engraved on the specimens (if any)

** BS3921 requires average of ten clay brick samples for crushing strength and water absorption

*** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

**** ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

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

supervisor(lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

673

Dr. Ambreen

To: **Mr. Naveed Abbas (Site Engineer)**

Ittefaq Construction Associates, Lahore.

Project: Construction of Commercial Building, Plot # 330, Block-G/3 Johar Town, Lahore.

Our Ref. No. CL/CED/ 2142 Dated: 18-02-21

Your Ref. No. ICA/330/G3/05 Dated: 12-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 12-02-21 Tested on: 16-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X-Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|-----------------|----------------------|---|------|--------------|----------------------|----------------------------------|--------------------------------|-----------------------------|----------|
| | | /Wet Weight (gms) | | | | | | | | |
| 1 | Slab (3000) Psi | 23 | 1 | 2021 | 6Diax12 | 14 | 28.28 | 35 | 2780 | Engraved |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* as engraved on the specimens (if any)

** BS3921 requires average of ten clay brick samples for crushing strength and water absorption

*** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

**** ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

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

supervisor(lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

591

Engr. A. Rehman

To: Mr. Abdullah
Vital Trade, Karachi
Project: Nil

Our Ref. No. CL/CED/ 2143 Dated: 18-02-21

Your Ref. No. Nil Dated: 01-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 01-02-21 Tested on: 17-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* /Wet Weight (gms) | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|--------------|---------------------------------------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| 1 | Plain Brick | | 9.0x4.4x3.0 | 3275 | 39.6 | 53 | 3000 | |
| 2 | Plain Brick | | 9.0x4.4x2.8 | 3039 | 39.6 | 55 | 3120 | |
| 3 | Plain Brick | | 9.0x4.4x2.9 | 3061 | 39.6 | 60 | 3400 | |
| 4 | Hollow Brick | | 9.0x4.4x2.9 | 2954 | 39.6 | 61 | 3460 | |
| 5 | Hollow Brick | | 9.0x4.4x2.8 | 3019 | 39.6 | 88 | 4980 | |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/departament?RID=testing_reports&id=6

* as engraved on the specimens (if any)

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*** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

**** ACI318-08 requires mean of two sample (6" dia x 12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

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

supervisor(lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

603

To: **Sub Divisional Officer (Buildings)**

Engr. A. Rehman

Sub Division Ferozewala

Project: Construction of Punjab Judicial Academy at Kala Shah Kaku, Lahore (ADP No.3272/2020-21)

Group No. 2, Res. (10 to 14)

Our Ref. No. CL/CED/

2144

Dated:

18-02-21

Your Ref. No.

894/F

Dated:

01-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 03-02-21 Tested on: 17-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* /Wet Weight (gms) | Size (in) | Weight (lbs./gms) | Area of X-Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|-------|---------------------------------------|--------------|----------------------|----------------------------------|--------------------------------|-----------------------------|---------|
| 1 | F B | | 8.8x4.3x2.8 | 3141 | 37.84 | 74 | 4390 | |
| 2 | F B | | 8.9x4.2x2.9 | 3162 | 37.38 | 68 | 4080 | |
| 3 | F B | | 8.8x4.3x2.9 | 3129 | 37.84 | 62 | 3670 | |
| 4 | F B | | 8.7x4.3x3.0 | 3072 | 37.41 | 61 | 3660 | |
| 5 | F B | | 8.8x4.3x2.8 | 3140 | 37.84 | 54 | 3200 | |
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* as engraved on the specimens (if any)

** BS3921 requires average of ten clay brick samples for crushing strength and water absorption

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Note: Above results pertain to the unsealed samples supplied to the laboratory

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supervisor(lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

609

To: **Engr. Shoaib Razzaq (Project Coordinator)**

Engr. A. Rehman

SINACO Engineers (PVT.) Ltd. Lahore

Project: Construction Works at CCL Pharma, Quaid-E- Azam Industrial State, Lahore.

Our Ref. No. CL/CED/ 2145 Dated: 18-02-21

Your Ref. No. SEL/LHR/C-441/11763 Dated: 02-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 03-02-21 Tested on: 17-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* /Wet Weight (gms) | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|-------|---------------------------------------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| 1 | Rb | | 8.8x4.2x2.9 | 3088 | 36.96 | 71 | 4310 | |
| 2 | Rb | | 8.8x4.3x3.0 | 3109 | 37.84 | 57 | 3380 | |
| 3 | Rb | | 8.7x4.3x2.9 | 3078 | 37.41 | 70 | 4200 | |
| 4 | St1 | | 8.8x4.3x3.0 | 3127 | 37.84 | 50 | 2960 | |
| 5 | St1 | | 8.8x4.3x2.9 | 3112 | 37.84 | 68 | 4030 | |
| 6 | St1 | | 8.7x4.4x2.9 | 3069 | 38.28 | 34 | 1990 | |
| 7 | A | | 8.9x4.4x3.0 | 3147 | 39.16 | 68 | 3890 | |
| 8 | A | | 8.9x4.3x2.9 | 3159 | 38.27 | 78 | 4570 | |
| 9 | A | | 8.8x4.4x2.8 | 3138 | 38.72 | 64 | 3710 | |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* as engraved on the specimens (if any)

** BS3921 requires average of ten clay brick samples for crushing strength and water absorption

*** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

**** ACI318-08 requires mean of two sample (6" dia x 12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

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

supervisor(lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

635

To: Mr. Abdullah Hussain (Resident Engineer)

Engr. A. Rehman

E&PHE Div., Nespak (Pvt.) Ltd. Sialkot**Project: Punjab Intermediate Cities Improvement Investment Program (PICIIP), Consultancy Services for Engineering, Procurement & Construction Management, Wastan Sialkot (NCB-Works/PICIIP-02) Lot-01, Lot-02 & Lot-04**

Our Ref. No. CL/CED/ 2146 Dated: 18-02-21

Your Ref. No. Nespak/SAH/ZKB-
Reliable/UET/004 Dated: 03-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 08-02-21 Tested on: 17-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* /Wet Weight (gms) | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|--------------------------------|---------------------------------------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| 1 | Machine Made (Double Lines) | | 8.8x4.2x2.8 | 3141 | 36.96 | 63 | 3820 | |
| 2 | Machine Made (Double Lines) | | 8.9x4.3x2.8 | 3168 | 38.27 | 50 | 2930 | |
| 3 | Machine Made (Double Lines) | | 8.8x4.3x2.9 | 3136 | 37.84 | 48 | 2850 | |
| 4 | Machine Made (Double Lines) | | 8.2x4.2x2.9 | 3154 | 36.96 | 36 | 2190 | |
| 5 | Machine Made (Double Lines) | | 8.9x4.3x2.9 | 3170 | 38.27 | 43 | 2520 | |
| 6 | Machine Made (Double Lines) | | 8.8x4.2x2.8 | 3128 | 36.96 | 50 | 3030 | |
| 7 | | | | | | | | |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* as engraved on the specimens (if any)

** BS3921 requires average of ten clay brick samples for crushing strength and water absorption

*** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

**** ACI318-08 requires mean of two sample (6" dia x 12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

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

supervisor(lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

647

To: Mr. M. Jameel
Sheikhupura
Project: Nil

Engr. A. Rehman

Our Ref. No. CL/CED/ 2147 Dated: 18-02-21

Your Ref. No. Nil Dated: 09-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 09-02-21 Tested on: 17-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* Wet Weight (gms) | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|----------------------|--------------------------------------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| 1 | A-1 (Concrete Brick) | | 9.0x4.4x3.0 | 4167 | 39.6 | 25 | 1420 | |
| 2 | A-1 (Concrete Brick) | | 9.0x4.4x3.0 | 3913 | 39.6 | 19.5 | 1110 | |
| 3 | A-1 (Concrete Brick) | | 9.0x4.4x3.0 | 4163 | 39.6 | 21.5 | 1220 | |
| 4 | A-1 (Concrete Brick) | | 9.0x4.4x3.0 | 4043 | 39.6 | 20.75 | 1180 | |
| 5 | A-1 (Concrete Brick) | | 9.0x4.4x3.0 | 4125 | 39.6 | 21 | 1190 | |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* as engraved on the specimens (if any)

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*** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

**** ACI318-08 requires mean of two sample (6" dia x 12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

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

supervisor(lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

677

To: **Sub Divisional Officer**

Engr. A. Rehman

Buildings Sub Division No.12, Lahore

**Project: Establishment of Mother & Child Block in Sir Ganga Ram Hospital, Lahore (A.D.P No. 581/2019-20),
Group No.1, Roof Slab of First Floor (Portion-2)**

Our Ref. No. CL/CED/ 2148 Dated: 18-02-21

Your Ref. No. 104/SDO12th Dated: 08-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 15-02-21 Tested on: 17-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X-Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|---------------|-------------------|---|------|-----------|-------------------|----------------------------|--------------------------|-----------------------|--------------|
| | | /Wet Weight (gms) | | | | | | | | |
| 1 | (1 : 2 : 4) | 4 | 1 | 2021 | 6x6x6 | 9 | 36 | 86 | 5360 | Non Engraved |
| 2 | (1 : 2 : 4) | 4 | 1 | 2021 | 6x6x6 | 9 | 36 | 79 | 4920 | Non Engraved |
| 3 | (1 : 2 : 4) | 4 | 1 | 2021 | 6x6x6 | 9 | 36 | 85 | 5290 | Non Engraved |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* as engraved on the specimens (if any)

** BS3921 requires average of ten clay brick samples for crushing strength and water absorption

*** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

**** ACI318-08 requires mean of two sample (6" dia x 12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

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

supervisor(lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

677

To: **Sub Divisional Officer**

Engr. A. Rehman

Buildings Sub Division No.12, Lahore

**Project: Establishment of Mother & Child Block in Sir Ganga Ram Hospital, Lahore (A.D.P No. 581/2019-20),
Group No.1, Floor Slab of Basemet-2 (Portion-1)**

Our Ref. No. CL/CED/ 2149 Dated: 18-02-21

Your Ref. No. 89/SDO12th Dated: 08-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 15-02-21 Tested on: 17-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|---------------|----------------------|---|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | /Wet Weight (gms) | | | | | | | | |
| 1 | (1 : 2 : 4) | 7 | 1 | 2021 | 6x6x6 | 9 | 36 | 80 | 4980 | Non Engraved |
| 2 | (1 : 2 : 4) | 7 | 1 | 2021 | 6x6x6 | 9 | 36 | 75 | 4670 | Non Engraved |
| 3 | (1 : 2 : 4) | 7 | 1 | 2021 | 6x6x6 | 9 | 36 | 73 | 4550 | Non Engraved |
| 4 | | | | | | | | | | |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* as engraved on the specimens (if any)

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*** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

**** ACI318-08 requires mean of two sample (6" dia x 12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

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

supervisor(lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

677

To: **Sub Divisional Officer**

Engr. A. Rehman

Buildings Sub Division No.12, Lahore

**Project: Establishment of Mother & Child Block in Sir Ganga Ram Hospital, Lahore (A.D.P No. 581/2019-20),
Group No.1, Lift Well in Ground Floor (Portion-3)**

Our Ref. No. CL/CED/ 2150 Dated: 18-02-21

Your Ref. No. 86/SDO12th Dated: 08-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 15-02-21 Tested on: 17-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|-----------------|---------------|-----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | Month | Day | Year | | | | | | |
| 1 | (1 : 1.5 : 3) | 8 | 1 | 2021 | 6x6x6 | 9 | 36 | 106 | 6600 | Non Engraved |
| 2 | (1 : 1.5 : 3) | 8 | 1 | 2021 | 6x6x6 | 9 | 36 | 94 | 5850 | Non Engraved |
| 3 | (1 : 1.5 : 3) | 8 | 1 | 2021 | 6x6x6 | 9 | 36 | 114 | 7100 | Non Engraved |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* as engraved on the specimens (if any)

** BS3921 requires average of ten clay brick samples for crushing strength and water absorption

*** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

**** ACI318-08 requires mean of two sample (6" dia x 12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

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

supervisor(lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

677

To: **Sub Divisional Officer**

Engr. A. Rehman

Buildings Sub Division No.12, Lahore

**Project: Establishment of Mother & Child Block in Sir Ganga Ram Hospital, Lahore (A.D.P No. 581/2019-20),
Group No.1, Lift Well in Second Floor (Portion-2)**

Our Ref. No. CL/CED/ 2151 Dated: 18-02-21

Your Ref. No. 95/SDO12th Dated: 08-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 15-02-21 Tested on: 17-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|-----------------|---------------------|---|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | Wet Weight (gms) | | | | | | | | |
| 1 | (1 : 1.5 : 3) | 10 | 1 | 2021 | 6x6x6 | 9 | 36 | 121 | 7530 | Non Engraved |
| 2 | (1 : 1.5 : 3) | 10 | 1 | 2021 | 6x6x6 | 9 | 36 | 102 | 6350 | Non Engraved |
| 3 | (1 : 1.5 : 3) | 10 | 1 | 2021 | 6x6x6 | 8.8 | 36 | 104 | 6480 | Non Engraved |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* as engraved on the specimens (if any)

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Note: Above results pertain to the unsealed samples supplied to the laboratory

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

supervisor(lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

677

Engr. A. Rehman

To: **Sub Divisional Officer**

Buildings Sub Division No.12, Lahore

**Project: Establishment of Mother & Child Block in Sir Ganga Ram Hospital, Lahore (A.D.P No. 581/2019-20),
Group No.1, Columns in Ground Floor (Portion-3)**

Our Ref. No. CL/CED/ 2152 Dated: 18-02-21

Your Ref. No. 98/SDO12th Dated: 08-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 15-02-21 Tested on: 17-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|---------------|---------------|-----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | Month | Day | Year | | | | | | |
| 1 | (1 : 1 : 2) | 6 | 1 | 2021 | 6x6x6 | 9 | 36 | 125 | 7780 | Non Engraved |
| 2 | (1 : 1 : 2) | 6 | 1 | 2021 | 6x6x6 | 9 | 36 | 137 | 8530 | Non Engraved |
| 3 | (1 : 1 : 2) | 6 | 1 | 2021 | 6x6x6 | 9 | 36 | 140 | 8720 | Non Engraved |
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* as engraved on the specimens (if any)

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*** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

**** ACI318-08 requires mean of two sample (6" dia x 12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

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

supervisor(lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory

Department of Civil Engineering

University of Engineering and Technology, Lahore

Phone Nos. 042-99029202, 042-99029217

677

To: Sub Divisional Officer

Engr. A. Rehman

Buildings Sub Division No.12, Lahore

Project: Establishment of Mother & Child Block in Sir Ganga Ram Hospital, Lahore (A.D.P No. 581/2019-20),
Group No.1, Roof Slab of Basement-1 (Portion-3)

Our Ref. No. CL/CED/ 2153 Dated: 18-02-21

Your Ref. No. 101/SDO12th Dated: 08-02-21

COMPRESSION TEST REPORT

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

Specimens received on: 15-02-21 Tested on: 17-02-21 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Weight (lbs./gms) | Area of X- Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|---------------|---------------|---|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
| | | 1 | 1 | 2021 | | | | | | |
| 1 | (1 : 2 : 4) | 1 | 1 | 2021 | 6x6x6 | 9 | 36 | 68 | 4240 | Non Engraved |
| 2 | (1 : 2 : 4) | 1 | 1 | 2021 | 6x6x6 | 9 | 36 | 69 | 4300 | Non Engraved |
| 3 | (1 : 2 : 4) | 1 | 1 | 2021 | 6x6x6 | 9 | 36 | 80 | 4980 | Non Engraved |
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supervisor(lab)

Director/Dy. Director Concrete Laboratory