



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

993

To: **Engr. Asif Raza (Resident Engineer)**

Engr. Ubaid

Allied Engineering Consultants (Pvt.) Ltd. Lahore

Project: Establishment of Mother & Child Block in Sir Ganga Ram Hospital Lahore (Group No.1)

Our Ref. No. CL/CED/ 3308-1 of 7 Dated: 03-06-21

Your Ref. No. AEC/MBC/2021/14 Dated: 31-03-21

COMPRESSION TEST REPORT

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

Specimens received on: 01-04-21 Tested on: 02-06-21 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	512-1A		4.5x4.5x2.9	1439	20.25	16	1770	
2	512-1B		4.4x4.5x2.9	1435	19.8	16	1810	
3	512-2C		4.5x4.5x2.8	1477	20.25	17	1880	
4	512-2D		4.4x4.5x2.8	1454	19.8	20	2270	
5	512-3E		4.5x4.5x2.9	1444	20.25	24	2660	
6	512-3F		4.5x4.5x2.9	1429	20.25	30	3320	
7	512-4G		4.5x4.5x2.8	1502	20.25	18	2000	
8	512-4H		4.5x4.5x2.8	1495	20.25	24	2660	
9	512-5I		4.4x4.5x2.8	1481	19.8	13	1480	
10	512-5J		4.5x4.5x2.8	1486	20.25	14	1550	
11								
12								
13								
14								
15								
16								

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

993

To: **Engr. Asif Raza (Resident Engineer)**

Engr. Ubaid

Allied Engineering Consultants (Pvt.) Ltd. Lahore

Project: Establishment of Mother & Child Block in Sir Ganga Ram Hospital Lahore (Group No.1)

Our Ref. No. CL/CED/ 3308-2 of 7 Dated: 03-06-21

Your Ref. No. AEC/MBC/2021/14 Dated: 31-03-21

COMPRESSION TEST REPORT

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

Specimens received on: 01-04-21 Tested on: 02-06-21 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
11	7UP-1A		4.5x4.5x3.1	1742	20.25	24	2660	
12	7UP-1B		4.5x4.5x3.1	1714	20.25	21	2330	
13	7UP-2C		4.5x4.5x3.0	1688	20.25	19	2110	
14	7UP-2D		4.5x4.5x3.0	1674	20.25	34	3770	
15	7UP-3E		4.4x4.5x3.1	1749	19.8	17	1930	
16	7UP-3F		4.5x4.5x3.1	1762	20.25	18	2000	
17	7UP-4G		4.5x4.5x3.0	1741	20.25	11	1220	
18	7UP-4H		4.5x4.5x3.0	1727	20.25	10	1110	
19	7UP-5I		4.5x4.5x3.1	1751	20.25	10.5	1170	
20	7UP-5J		4.5x4.5x3.1	1743	20.25	11	1220	
11								
12								
13								
14								
15								
16								

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)

** 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

993

Engr. Ubaid

To: **Engr. Asif Raza (Resident Engineer)**

Allied Engineering Consultants (Pvt.) Ltd. Lahore

Project: Establishment of Mother & Child Block in Sir Ganga Ram Hospital Lahore (Group No.1)

Our Ref. No. CL/CED/ 3308-3 of 7 Dated: 03-06-21

Your Ref. No. AEC/MBC/2021/14 Dated: 31-03-21

COMPRESSION TEST REPORT

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

Specimens received on: 01-04-21 Tested on: 02-06-21 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
21	55-1A		4.5x4.5x2.9	1558	20.25	28	3100	
22	55-1B		4.4x4.5x2.9	1531	19.8	34	3850	
23	55-2C		4.5x4.5x2.9	1627	20.25	36	3990	
24	55-2D		4.5x4.5x2.9	1602	20.25	43	4760	
25	55-3E		4.5x4.5x2.9	1570	20.25	34	3770	
26	55-3F		4.5x4.5x2.9	1541	20.25	37	4100	
27	55-4G		4.4x4.5x3.0	1578	19.8	21	2380	
28	55-4H		4.5x4.5x3.0	1593	20.25	37	4100	
29	55-5I		4.4x4.5x3.0	1589	19.8	36	4080	
30	55-5J		4.5x4.5x3.0	1596	20.25	27	2990	
11								
12								
13								
14								
15								
16								

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

993

Engr. Ubaid

To: **Engr. Asif Raza (Resident Engineer)**

Allied Engineering Consultants (Pvt.) Ltd. Lahore

Project: Establishment of Mother & Child Block in Sir Ganga Ram Hospital Lahore (Group No.1)

Our Ref. No. CL/CED/ 3308-4 of 7 Dated: 03-06-21

Your Ref. No. AEC/MBC/2021/14 Dated: 31-03-21

COMPRESSION TEST REPORT

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

Specimens received on: 01-04-21 Tested on: 02-06-21 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
31	S-1A		4.5x4.5x3.0	1542	20.25	45	4980	
32	S-1B		4.4x4.5x3.0	1530	19.8	16	1810	
33	S-2C		4.5x4.5x2.9	1578	20.25	29	3210	
34	S-2D		4.5x4.5x2.9	1595	20.25	45	4980	
35	S-3E		4.5x4.5x3.0	1604	20.25	19	2110	
36	S-3F		4.5x4.5x3.0	1594	20.25	34	3770	
37	S-4G		4.5x4.5x3.0	1612	20.25	38	4210	
38	S-4H		4.4x4.5x3.0	1602	19.8	33	3740	
39	S-5I		4.5x4.5x2.9	1586	20.25	15	1660	
40	S-5J		4.4x4.5x2.9	1582	19.8	39.5	4470	
11								
12								
13								
14								
15								
16								

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

993

Engr. Ubaid

To: **Engr. Asif Raza (Resident Engineer)**

Allied Engineering Consultants (Pvt.) Ltd. Lahore

Project: Establishment of Mother & Child Block in Sir Ganga Ram Hospital Lahore (Group No.1)

Our Ref. No. CL/CED/ 3308-5 of 7 Dated: 03-06-21

Your Ref. No. AEC/MBC/2021/14 Dated: 31-03-21

COMPRESSION TEST REPORT

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

Specimens received on: 01-04-21 Tested on: 02-06-21 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
41	MT-1A		4.5x4.5x2.9	1597	20.25	23	2550	
42	MT-1B		4.4x4.5x2.9	1592	19.8	22	2490	
43	MT-2C		4.5x4.5x3.0	1584	20.25	25	2770	
44	MT-2D		4.4x4.5x3.0	1573	19.8	24	2720	
45	MT-3E		4.5x4.5x2.9	1653	20.25	29	3210	
46	MT-3F		4.4x4.5x2.9	1649	19.8	25	2830	
47	MT-4G		4.5x4.5x2.9	1628	20.25	22	2440	
48	MT-4H		4.5x4.5x2.9	1620	20.25	24	2660	
49	MT-5I		4.5x4.5x3.0	1637	20.25	25	2770	
50	MT-5J		4.5x4.5x3.0	1621	20.25	19.5	2160	
11								
12								
13								
14								
15								
16								

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

993

Engr. Ubaid

To: **Engr. Asif Raza (Resident Engineer)**

Allied Engineering Consultants (Pvt.) Ltd. Lahore

Project: Establishment of Mother & Child Block in Sir Ganga Ram Hospital Lahore (Group No.1)

Our Ref. No. CL/CED/ 3308-6 of 7 Dated: 03-06-21

Your Ref. No. AEC/MBC/2021/14 Dated: 31-03-21

COMPRESSION TEST REPORT

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

Specimens received on: 01-04-21 Tested on: 02-06-21 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
51	FB-1A		4.5x4.5x3.0	1608	20.25	33	3650	
52	FB-1B		4.5x4.5x3.0	1599	20.25	36	3990	
53	FB-2C		4.5x4.5x3.1	1690	20.25	32	3540	
54	FB-2D		4.5x4.5x3.1	1671	20.25	29	3210	
55	FB-3E		4.4x4.5x3.0	1674	19.8	30	3400	
56	FB-3F		4.5x4.5x3.0	1711	20.25	37	4100	
57	FB-4G		4.4x4.5x2.9	1584	19.8	36	4080	
58	FB-4H		4.5x4.5x2.9	1603	20.25	30	3320	
59	FB-5I		4.5x4.5x2.9	1651	20.25	39	4320	
60	FB-5J		4.5x4.5x2.9	1640	20.25	39	4320	
11								
12								
13								
14								
15								
16								

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)

** 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

993

To: **Engr. Asif Raza (Resident Engineer)**

Engr. Ubaid

Allied Engineering Consultants (Pvt.) Ltd. Lahore

Project: Establishment of Mother & Child Block in Sir Ganga Ram Hospital Lahore (Group No.1)

Our Ref. No. CL/CED/ 3308-7 of 7 Dated: 03-06-21

Your Ref. No. AEC/MBC/2021/14 Dated: 31-03-21

COMPRESSION TEST REPORT

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

Specimens received on: 01-04-21 Tested on: 02-06-21 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
61	IB-1A		4.5x4.5x3.1	1627	20.25	29	3210	
62	IB-1B		4.x4.5x3.1	1618	19.8	36	4080	
63	IB-2C		4.5x4.5x3.0	1624	20.25	47	5200	
64	IB-2D		4.5x4.5x3.0	1619	20.25	40	4430	
65	IB-3E		4.4x4.5x3.0	1908	19.8	27	3060	
66	IB-3F		4.5x4.5x3.0	1613	20.25	31	3430	
67	IB-4G		4.5x4.5x3.1	1675	20.25	49	5420	
68	IB-4H		4.5x4.5x3.0	1659	20.25	38	4210	
69	IB-5I		4.5x4.5x3.0	1654	20.25	30	3320	
70	IB-5J		4.5x4.5x3.0	1664	20.25	32	3540	
11								
12								
13								
14								
15								
16								

Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/departement?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