

Test Performed by: Dr. S. Asad Ali Gillani

Muhammad Khalid Zaman,  
Resident Engineer (ECSP)  
Engineering Consultancy Services Punjab (Pvt) Ltd. Lahore  
(Model Cattle Market Shahpur Kanjra, Lahore)(P-1)

Client Reference No.: ECSP/MCML/64

Dated: 17-02-2025

SOM Lab Ref: CED/SOM/835 (Page-1/2)

Dated: 25-02-2025

Test Type: Shear Test

Sample Type: Steel Plates

Shear Test Results

Sample No.	Steel plate Thickness	Sample Size	Area	Load (Ton)	Shear Stress (MPa)
1	4mm	6.0 x 4.0	24.0	0.995	406.0
2	6mm	6.1 x 6.0	36.6	1.695	454.18
3	7mm	6.6 x 6.9	45.54	1.869	402.50
4	8mm	6.0 x 8.0	48.0	1.707	348.75
5	10mm	6.2 x 8.0	49.6	1.794	354.73

Note: Please always confirm the results on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

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Test Type: Shear Test

Sample Type: Steel Plates

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machines  
(Minor Load: 10 Kgf      Major Load: 90.0 kgf      Scale: B)

Hardness Test Results

Sample No.	Sample Thickness	Hardness avg
1	4mm	HR – 94.16– B
2	6mm	HR – 91.66 B
3	7mm	HR – 94.33 B
4	8mm	HR – 92.33-B
5	10mm	HR – 90.16 B

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