

Jamal Abdul Nasir  
Senior Resident Engineer, ACES - DHA, Multan

**Test Performed By:** Dr. /Engr. S. Asad Ali Gillani

**Client Reference:** ACES/SEC-A/LAB/003

**Dated:** 09-11-2020

**SOM Lab Ref:** CED/SOM/3244 (Page-2/2)

**Dated:** 12-11-2020

**Test:** Tension Test Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** Deformed Bar(Zia Steel)

**Gauge Length:** 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.988	12	12.67	113	126	64.20	82.00	568	510	725	651	30.0	200	15.0	
2	0.988	12	12.66	113	126	64.30	81.70	569	511	722	649	30.0	200	15.0	
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**BEND TEST:**

12mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

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

Jamal Abdul Nasir  
Senior Resident Engineer, ACES - DHA, Multan

**Test Performed By:** Dr. /Engr. S. Asad Ali Gillani

**Client Reference:** ACES/SEC-A/LAB/003

**Dated:** 09-11-2020

**SOM Lab Ref:** CED/SOM/3244 (Page-1/1)

**Dated:** 12-11-2020

**Test:** Tension Test Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** Deformed Bar(Amreli Steel)

**Gauge Length:** 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.988	12	12.67	113	126	64.70	82.00	572	514	725	651	35.0	200	17.5	
2	0.988	12	12.66	113	126	64.50	81.20	570	513	718	645	32.5	200	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

12mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

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

Vision Engineering Services,  
Near Kot Juspahat Shahdara Town Lahore

**Test Performed By:** Dr. /Engr. S. Asad Ali Gillani

**Client Reference:** Nil  
**SOM Lab Ref:** CED/SOM/3245(Page-1/1)  
**Test:** Tension Test  
**Sample Type:** Steel Round Bar (MS)

**Dated:** Nil  
**Dated:** 12-11-2020  
**Test Specification:** ASTM-A 615  
**Gauge Length:** 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.257	20	19.15	314	288	133.50	210.50	425	464	670	731	35.0	200	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only One Sample Received and Tested

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

Vision Engineering Services,  
Near Kot Juspahat Shahdara Town Lahore

**Test Performed By:** Dr. /Engr. S. Asad Ali Gillani

**Client Reference:** Nil  
**SOM Lab Ref:** CED/SOM/3245(Page-2/6)  
**Test:** Tension Test  
**Sample Type:** Steel Round Bar (MS)

**Dated:** Nil  
**Dated:** 12-11-2020  
**Test Specification:** ASTM-A 615  
**Gauge Length:** 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.080	24	22.34	380	392	219.00	359.50	576	559	946	918	25.0	200	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only One Sample Received and Tested

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

Vision Engineering Services,  
Near Kot Juspat Shahdara Town Lahore

**Test Performed By:** Dr. /Engr. S. Asad Ali Gillani

**Client Reference:** Nil  
**SOM Lab Ref:** CED/SOM/3245(Page-3/6)  
**Test:** Tension Test  
**Sample Type:** Steel Round Bar (Gol-H)

**Dated:** Nil  
**Dated:** 12-11-2020  
**Test Specification:** ASTM-A 615  
**Gauge Length:** 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.310	24	23.18	380	422	220.70	356.20	581	523	937	845	22.5	200	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only One Sample Received and Tested

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

Vision Engineering Services,  
Near Kot Juspahat Shahdara Town Lahore

**Test Performed By:** Dr. /Engr. S. Asad Ali Gillani

**Client Reference:** Nil  
**SOM Lab Ref:** CED/SOM/3245(Page-3/6)  
**Test:** Tension Test  
**Sample Type:** Steel Round Bar (Gol-H)

**Dated:** Nil  
**Dated:** 12-11-2020  
**Test Specification:** ASTM-A 615  
**Gauge Length:** 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.310	24	23.18	380	422	220.70	356.00	581	523	937	844	22.5	200	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only One Sample Received and Tested

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

Vision Engineering Services,  
Near Kot Juspat Shahdara Town Lahore

**Test Performed By:** Dr. /Engr. S. Asad Ali Gillani

**Client Reference:** Nil  
**SOM Lab Ref:** CED/SOM/3245(Page-4/6)  
**Test:** Tension Test  
**Sample Type:** Steel Round Bar (Gol-H)

**Dated:** Nil  
**Dated:** 12-11-2020  
**Test Specification:** ASTM-A 615  
**Gauge Length:** 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.274	20	19.22	314	290	133.70	208.70	426	462	664	720	30.0	200	15.0	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only One Sample Received and Tested

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

Vision Engineering Services,  
Near Kot Juspat Shahdara Town Lahore

**Test Performed By:** Dr. /Engr. S. Asad Ali Gillani

**Client Reference:** Nil  
**SOM Lab Ref:** CED/SOM/3245(Page-4/6)  
**Test:** Tension Test  
**Sample Type:** Steel Round Bar (Gol-H)

**Dated:** Nil  
**Dated:** 12-11-2020  
**Test Specification:** ASTM-A 615  
**Gauge Length:** 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.274	20	19.22	314	290	133.70	208.70	426	462	664	720	30.0	200	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only One Sample Received and Tested

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



Vision Engineering Services,  
Near Kot Juspat Shahdara Town Lahore

**Test Performed By:** Dr. /Engr. S. Asad Ali Gillani

**Client Reference:** Nil  
**SOM Lab Ref:** CED/SOM/3245(Page-6/6)

**Dated:** Nil  
**Dated:** 12-11-2020

**Test:** Tension Test  
**Sample Type:** Steel Round Bar (Gol-C)

**Test Specification:** ASTM-A 615  
**Gauge Length:** 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.214	20	18.95	314	282	134.00	208.00	427	476	662	738	25.0	200	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only One Sample Received and Tested

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

Sajid Khawaja  
Resident Engineer, EA Consulting (Pvt) Ltd.

Test Performed By: Dr. /Engr. M. Rizwan Azam

Client Reference: EA/FGEHA/LHR/034  
Dated: 12-11-2020  
Test: Tension Test & Bend Test  
Gauge Length: 8 inch

SOM Lab  
Ref: 3246(Page-1/1)  
Dated: 12-11-2020  
ASTM-A-615  
Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.596	8	0.986	0.79	0.763	28.28	37.94	78940	81740	105920	109670	1.00	8.0	12.5	
2	2.591	8	0.984	0.79	0.761	28.54	38.74	79680	82720	108140	112260	1.00	8.0	12.5	
3	2.588	8	0.984	0.79	0.761	25.81	32.62	72060	74800	91070	94540	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Four Samples Received and Tested

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

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Dy Dir MTL, Infra Development Works Sector - IV, DHA Rahbar Ph-XI - (M/S DHA C)

Client Reference: 408/241/E/Lab/1032/28

SOM Lab

Ref: 3241(Page-1/1)

Dated: 10-11-2020

Dated: 12-11-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed Bar ( Kamran Steel)

Gauge Length: 8 inch

Sample Type:

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.662	4	0.498	0.20	0.195	6.22	8.77	68570	70330	96670	99150	1.30	8.0	16.3	
2	0.652	4	0.494	0.20	0.192	6.29	8.69	69360	72250	95770	99760	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

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

Syed Suleman Haider  
 Assistant Resident Engineer/ Material Engineer, AZEA, Kamoki Residency

**Test Performed By:**

Dr. /Engr.

S. Asad Ali  
Gillani

**Client Reference:** AZEA/REKMK/1073

**Dated:** 25-09-2020

**Test:** Tension Test & Bend Test

**Gauge Length:** 8 inch

**SOM Lab**

**Ref:** 3248 (Page-1/1)

**Dated:** 12-11-2020

**Test Specification:** ASTM-A-615

Depormed

Bar

**Sample Type:**

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.590	4	0.469	0.20	0.173	5.61	7.95	61830	71480	87680	101360	1.40	8.0	17.5	
2	0.592	4	0.471	0.20	0.174	5.56	7.95	61270	70420	87680	100780	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

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