

Diameter of bolt	d (mm)	20
Diameter of bolt hole	d <sub>0</sub> (mm)	22
End distance	e <sub>1</sub> (mm)	40
Edge distance	e <sub>2</sub> (mm)	30
Pitch distance	p <sub>1</sub> (mm)	60
	p <sub>2</sub> (mm)	N/A
Gauge distance	g (mm)	90
Thickness of end plate	t <sub>p</sub> (mm)	10
Horizontal distance of lever arm	B <sub>L</sub> (mm)	490
Vertical distance of lever arm	D <sub>L</sub> (mm)	51.7

Steel Grade	S275	S355
Dimension of Members	UB305x16	UC254x25
	5x40	4x89
Depth of Section	D (mm)	303.4
Width of Section	B (mm)	165
Thickness of Web	t (mm)	6
Thickness of Flange	T (mm)	10.2
Root Radius	r (mm)	8.9
Depth between Fillets	d (mm)	265.2

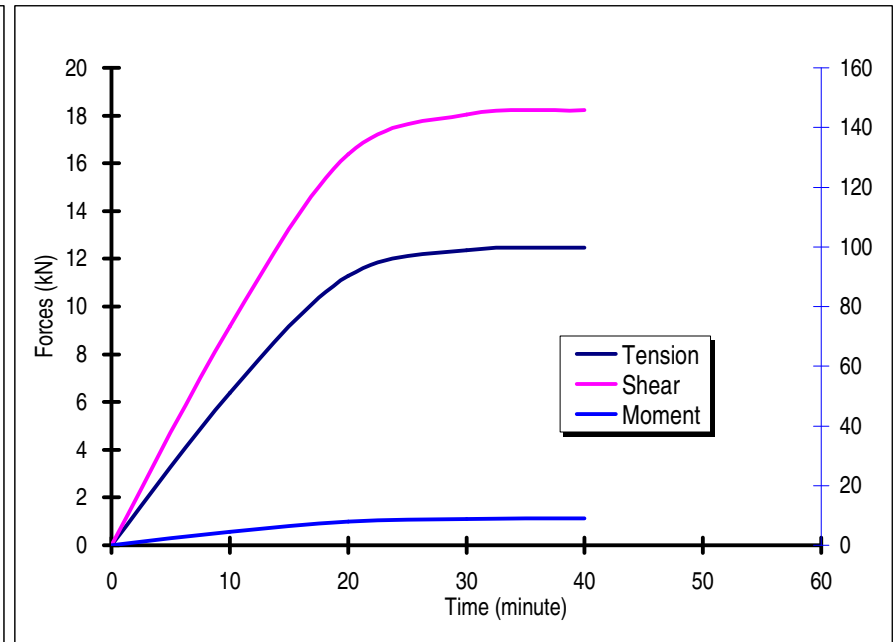
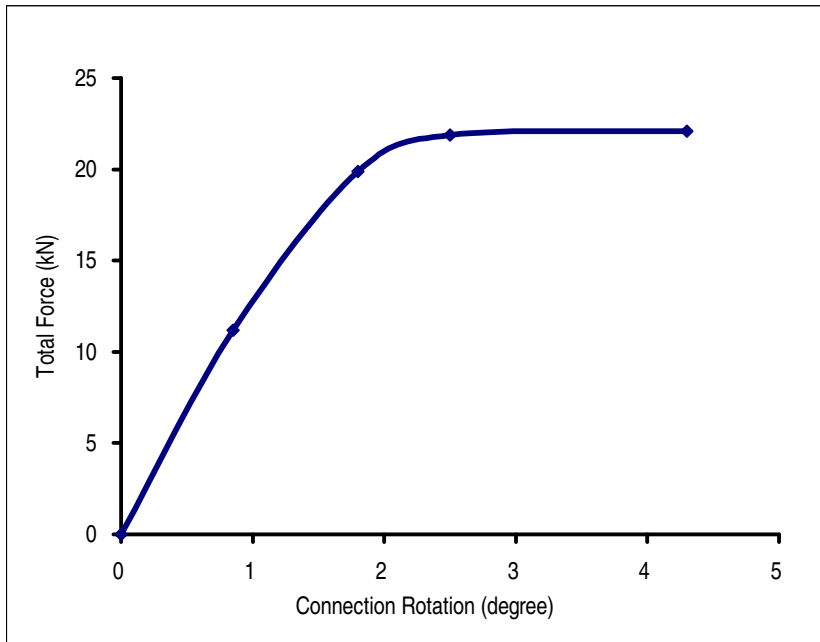
Nominal Temperature

650°C

Time	Thermocouple	Jack Displacement	Load Angle	Beam Rotation	Column Rotation	Connection Rotation	Force Rotation	F3 from F1	F3 from F2	F3 Average	Tension	Shear	Moment
(minute)	Average(°C)	(mm)	$\alpha(^{\circ})$	( $^{\circ}$ )	( $^{\circ}$ )	( $^{\circ}$ )	( $^{\circ}$ )	(kN)	(kN)	(kN)	(kN)	(kN)	(kN*m)
0	650.000	2.196	55	N/A	N/A	0	0	0	0	0	0	0	0
1	650.000	2.197	54.94	N/A	N/A		-0.057	2.86	2.28	5.15	2.96	4.22	2.07
2	650.000	2.197	55.02	N/A	N/A		0.015	2.82	2.27	5.08	2.91	4.16	2.04
3	650.000	2.198	55.01	N/A	N/A		0.012	3.01	2.30	5.31	3.05	4.35	2.13
4	650.000	2.853	54.94	N/A	N/A		-0.064	3.82	2.74	6.56	3.77	5.37	2.63
5	650.000	4.354	54.95	N/A	N/A		-0.051	5.34	3.49	8.84	5.07	7.23	3.54
6	650.000	5.852	54.88	N/A	N/A		-0.125	6.17	3.94	10.10	5.81	8.26	4.05
7	650.000	7.236	54.98	N/A	N/A		-0.015	6.37	4.02	10.39	5.96	8.51	4.17
8	650.000	8.655	54.74	N/A	N/A		-0.256	6.42	4.04	10.46	6.04	8.54	4.18
9	650.000	10.233	54.97	N/A	N/A		-0.029	6.65	4.13	10.78	6.19	8.83	4.33
10	650.000	11.797	55.10	N/A	N/A	0.850	0.104	7.02	4.16	11.17	6.39	9.17	4.49
11	650.000	12.924	55.29	N/A	N/A		0.294	7.46	4.40	11.85	6.75	9.74	4.77
12	650.000	14.308	55.34	N/A	N/A		0.336	8.39	4.69	13.08	7.44	10.76	5.27
13	650.000	15.733	55.38	N/A	N/A		0.378	9.23	5.09	14.32	8.13	11.78	5.77
14	650.000	17.148	55.43	N/A	N/A		0.433	10.14	5.32	15.46	8.77	12.73	6.24
15	650.000	18.533	55.41	N/A	N/A		0.408	10.99	5.62	16.61	9.43	13.67	6.70
16	650.000	19.861	55.40	N/A	N/A		0.403	11.61	5.87	17.48	9.92	14.39	7.05
17	650.000	21.298	55.40	N/A	N/A		0.399	12.20	6.07	18.27	10.37	15.04	7.37
18	650.000	22.729	55.44	N/A	N/A		0.440	12.69	6.15	18.84	10.68	15.51	7.60
19	650.000	24.102	55.45	N/A	N/A		0.448	13.20	6.29	19.49	11.05	16.05	7.86
20	650.000	25.518	55.42	N/A	N/A	1.800	0.416	13.48	6.42	19.90	11.29	16.38	8.03
21	650.000	26.876	55.53	N/A	N/A		0.534	13.83	6.49	20.32	11.50	16.75	8.21
22	650.000	28.257	55.55	N/A	N/A		0.553	14.06	6.55	20.60	11.66	16.99	8.33
23	650.000	29.663	55.43	N/A	N/A		0.427	14.23	6.55	20.78	11.79	17.11	8.38
24	650.000	31.057	55.38	N/A	N/A		0.380	14.43	6.68	21.11	12.00	17.37	8.51
25	650.000	32.450	55.51	N/A	N/A		0.506	14.52	6.67	21.19	12.00	17.46	8.56
26	650.000	33.916	55.47	N/A	N/A		0.469	14.74	6.68	21.42	12.14	17.65	8.65

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27	650.000	35.406	55.56	N/A	N/A		0.559	14.87	6.68	21.55	12.19	17.78	8.71
28	650.000	36.913	55.54	N/A	N/A		0.543	15.10	6.73	21.83	12.35	18.00	8.82
29	650.000	38.362	55.60	N/A	N/A		0.597	15.15	6.77	21.92	12.38	18.08	8.86
30	650.000	39.802	55.58	N/A	N/A	2.500	0.576	15.16	6.72	21.88	12.37	18.05	8.84
31	650.000	41.157	55.64	N/A	N/A		0.642	15.40	6.75	22.15	12.50	18.28	8.96
32	650.000	42.574	55.64	N/A	N/A		0.635	15.37	6.69	22.06	12.45	18.21	8.92
33	650.000	43.959	55.64	N/A	N/A		0.639	15.53	6.72	22.25	12.56	18.37	9.00
34	650.000	45.400	55.66	N/A	N/A		0.658	15.60	6.70	22.30	12.58	18.41	9.02
35	650.000	46.882	55.64	N/A	N/A		0.635	15.61	6.60	22.21	12.54	18.33	8.98
36	650.000	48.316	55.70	N/A	N/A		0.703	15.71	6.58	22.29	12.56	18.41	9.02
37	650.000	49.717	55.65	N/A	N/A		0.652	15.72	6.60	22.32	12.59	18.43	9.03
38	650.000	51.088	55.65	N/A	N/A		0.652	15.78	6.55	22.33	12.60	18.44	9.04
39	650.000	52.537	55.69	N/A	N/A		0.691	15.63	6.48	22.11	12.46	18.26	8.95
40	650.000	53.962	55.67	N/A	N/A	4.300	0.671	15.73	6.37	22.09	12.46	18.24	8.94
41	650.000	55.421	55.65	N/A	N/A		0.651	15.62	6.36	21.98	12.40	18.15	8.89
42	650.000	56.870	55.73	N/A	N/A		0.735	15.46	6.31	21.77	12.26	17.99	8.82
43	650.000	58.304	55.67	N/A	N/A		0.671	15.51	6.23	21.74	12.26	17.95	8.80
44	650.000	59.746	55.78	N/A	N/A		0.777	15.47	6.18	21.65	12.18	17.90	8.77
45	650.000	61.196	55.78	N/A	N/A		0.779	15.37	6.14	21.51	12.10	17.78	8.71
46	650.000	62.677	55.71	N/A	N/A		0.711	15.43	6.12	21.55	12.14	17.80	8.72
47	650.000	64.167	55.72	N/A	N/A		0.723	15.33	6.09	21.42	12.06	17.70	8.67
48	650.000	65.585	55.69	N/A	N/A		0.694	15.20	5.97	21.16	11.93	17.48	8.57
49	650.000	67.026	55.71	N/A	N/A		0.708	15.26	5.90	21.16	11.92	17.48	8.57
50	650.000	68.500	55.64	N/A	N/A		0.644	15.13	5.82	20.95	11.82	17.30	8.48
51	650.000	69.957	55.69	N/A	N/A		0.693	15.12	5.79	20.91	11.79	17.27	8.46
52	650.000	71.375	55.64	N/A	N/A		0.639	15.09	5.77	20.85	11.77	17.21	8.43



Photographs after Test

