

BRUNEL UNIVERSITY
SCHOOL OF ENGINEERING AND DESIGN
MECH ENG STRUCTURS LABORATORY

Parkes tests

Test Type: Compression
 Operator Name: KAW
 Sample Identification: JT1
 Interface Type: 8500/8800
 Instron Corporation
 Series IX Automated Materials Testing System 8.31.00
 Test Date: 04 August 2006

Sample Rate (pts/secs): 10.0000
 Ramp Rate: 5.0000 mm/min
 Ramp Rate 2: 0.0000 mm/min
 Ramp Rate 3: 0.0000 mm/min
 Humidity (%): 45
 Temperature: 23 C

Full Scale Load Range: 100.0000 kN

Specimen Geometry: Rectangular
 Width: 50.0000 mm
 Thickness: 0.8500 mm
Extensometer G.L.: 275.0000 mm
 Specimen G.L.: 350.0000 mm

Sample Comments:

JOIST HANGER

	Displcment at Max.Load (mm)	Load at Max.Load (kN)	Stress at Max.Load (Mpa)	Strain at Max.Load (mm/mm)
1	7.337	19.968	469.844	0.027

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Test Type: Compression
 Operator Name: KAW
 Sample Identification: JT2
 Interface Type: 8500/8800
 Instron Corporation
 Series IX Automated Materials Testing System 8.31.00
 Test Date: 04 August 2006

Sample Rate (pts/secs): 10.0000
 Ramp Rate: 5.0000 mm/min
 Ramp Rate 2: 0.0000 mm/min
 Ramp Rate 3: 0.0000 mm/min
 Humidity (%): 40
 Temperature: 25 C

Full Scale Load Range: 100.0000 kN

Specimen Geometry: Rectangular
 Width: 50.0000 mm
 Thickness: 0.8500 mm
Extensometer G.L.: 275.0000 mm
 Specimen G.L.: 350.0000 mm

Sample Comments:

JOIST HANGER

	Displcment at Max.Load (mm)	Load at Max.Load (kN)	Stress at Max.Load (Mpa)	Strain at Max.Load (mm/mm)
1	8.011	19.841	466.852	0.029

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Parkes tests

Test Type: Compression
 Operator Name: KAW
 Sample Identification: JT3
 Interface Type: 8500/8800
 Instron Corporation
 Series IX Automated Materials Testing System 8.31.00
 Test Date: 04 August 2006

Sample Rate (pts/secs): 10.0000
 Ramp Rate: 5.0000 mm/min
 Ramp Rate 2: 0.0000 mm/min
 Ramp Rate 3: 0.0000 mm/min
 Humidity (%): 52
 Temperature: 26 C

Full Scale Load Range: 100.0000 kN

Specimen Geometry: Rectangular
 Width: 50.0000 mm
 Thickness: 0.8500 mm
Extensometer G.L.: 275.0000 mm
 Specimen G.L.: 350.0000 mm

Sample Comments:

JOIST HANGER

	Displcment at Max.Load (mm)	Load at Max.Load (kN)	Stress at Max.Load (Mpa)	Strain at Max.Load (mm/mm)
1	6.936	18.805	442.461	0.025

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Parkes tests

Test Type: Compression
 Operator Name: KAW
 Sample Identification: JT4
 Interface Type: 8500/8800
 Instron Corporation
 Series IX Automated Materials Testing System 8.31.00
 Test Date: 10 August 2006

Sample Rate (pts/secs): 10.0000
 Ramp Rate: 5.0000 mm/min
 Ramp Rate 2: 0.0000 mm/min
 Ramp Rate 3: 0.0000 mm/min
 Humidity (%): 37
 Temperature: 23 C

Full Scale Load Range: 100.0000 kN

Specimen Geometry: Rectangular
 Width: 50.0000 mm
 Thickness: 0.8500 mm
Extensometer G.L.: 275.0000 mm
 Specimen G.L.: 350.0000 mm

Sample Comments:

JOIST HANGER

	Displcment at Max.Load (mm)	Load at Max.Load (kN)	Stress at Max.Load (Mpa)	Strain at Max.Load (mm/mm)
1	2.184	10.129	238.318	0.008
2	1.063	10.130	238.343	0.004
3	0.962	10.086	237.314	0.003
4	0.978	10.135	238.465	0.004
5	0.887	9.939	233.859	0.003

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Parkes tests

Test Type: Compression
 Operator Name: KAW
 Sample Identification: JT5
 Interface Type: 8500/8800
 Instron Corporation
 Series IX Automated Materials Testing System 8.31.00
 Test Date: 10 August 2006

Sample Rate (pts/secs): 10.0000
 Ramp Rate: 5.0000 mm/min
 Ramp Rate 2: 0.0000 mm/min
 Ramp Rate 3: 0.0000 mm/min
 Humidity (%): 42
 Temperature: 24 C

Full Scale Load Range: 100.0000 kN

Specimen Geometry: Rectangular
 Width: 50.0000 mm
 Thickness: 0.8500 mm
Extensometer G.L.: 275.0000 mm
 Specimen G.L.: 350.0000 mm

Sample Comments:

JOIST HANGER

	Displcment at Max.Load (mm)	Load at Max.Load (kN)	Stress at Max.Load (Mpa)	Strain at Max.Load (mm/mm)
1	4.769	14.991	352.728	0.017

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Parkes tests

Test Type: Compression
 Operator Name: KAW
 Sample Identification: JT6
 Interface Type: 8500/8800
 Instron Corporation
 Series IX Automated Materials Testing System 8.31.00
 Test Date: 10 August 2006

Sample Rate (pts/secs): 10.0000
 Ramp Rate: 5.0000 mm/min
 Ramp Rate 2: 0.0000 mm/min
 Ramp Rate 3: 0.0000 mm/min
 Humidity (%): 40
 Temperature: 25 C

Full Scale Load Range: 100.0000 kN

Specimen Geometry: Rectangular
 Width: 50.0000 mm
 Thickness: 0.8500 mm
Extensometer G.L.: 275.0000 mm
 Specimen G.L.: 350.0000 mm

Sample Comments:

JOIST HANGER

	Displcment at Max.Load (mm)	Load at Max.Load (kN)	Stress at Max.Load (Mpa)	Strain at Max.Load (mm/mm)
1	0.810	6.137	144.408	0.003
2	0.547	6.117	143.931	0.002
3	0.518	6.060	142.583	0.002
4	0.500	6.152	144.764	0.002
5	0.503	6.153	144.776	0.002