

Exova
2395 Speakman Dr.
Mississauga
Ontario
Canada
L5K 1B3

T: +1 (905) 822-4111
F: +1 (905) 823-1446
E: sales@exova.com
W: www.exova.com



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California Technical Bulletin 133 Flammability Test for Seating Furniture on "JEM Chair"

A Report To:	Buzz Seating Inc. 623 North Wayne Avenue Cinti, Ohio 45215 USA
Phone:	877-263-5737
E-mail:	dan@buzzseating.com
Attention:	Dan O'Hara
Submitted By:	Exova Warringtonfire North America
Report No.	12-002-704 6 pages
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ACCREDITATION To ISO/IEC 17025 for a defined Scope of Testing by the International Accreditation Service

SPECIFICATIONS OF ORDER

Conduct California Technical Bulletin 133 "Flammability Test Procedure for Seating Furniture for Use in Public Occupancies", as per Exova Warringtonfire North America Quotation No. 12-002-08853 accepted September 26, 2012.

IDENTIFICATION

Chair seating system identified as: "JEM Chair".

(Exova sample identification number 12-002-S0704)

SUMMARY OF TEST PROCEDURE

The test furniture is placed on a load cell in the corner of a specified room (12 ft x 10 ft x 8 ft high) and weighed. A square gas burner, fuelled by propane at a rate of 13 litres per minute and located 1 inch above the seat cushion and 2 inches from the seat back, is ignited and allowed to burn for 80 seconds.

During the test period, heat release, levels of carbon monoxide, smoke opacity at the 4 foot level, weight loss and temperatures at the ceiling and at the 4 foot level are monitored at 5 second intervals.

Seating furniture fails to meet the requirements of this test procedure if any of the following criteria are exceeded in a room test using oxygen consumption calorimetry:

- A maximum rate of heat release of 80 kW or greater.
- A total heat release of 25 MJ or greater in the first 10 minutes of the test.
- Greater than 75% opacity at the 4-foot smoke opacity monitor.
- Carbon monoxide (CO) concentration in the room of 1000 ppm or greater for 5 minutes.

TEST SAMPLE



"JEM Chair"

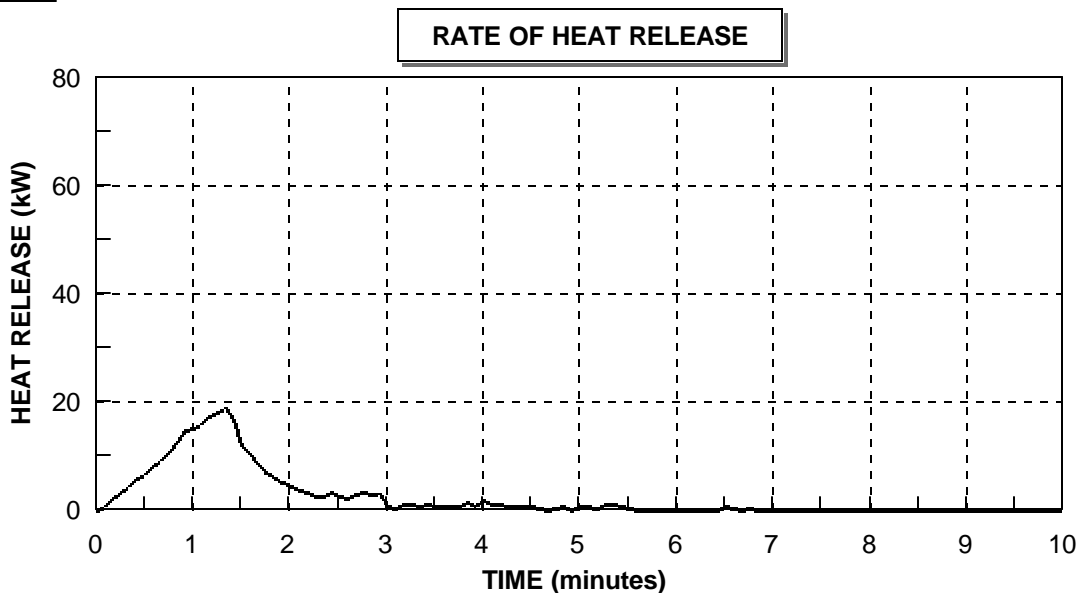


Test Damage

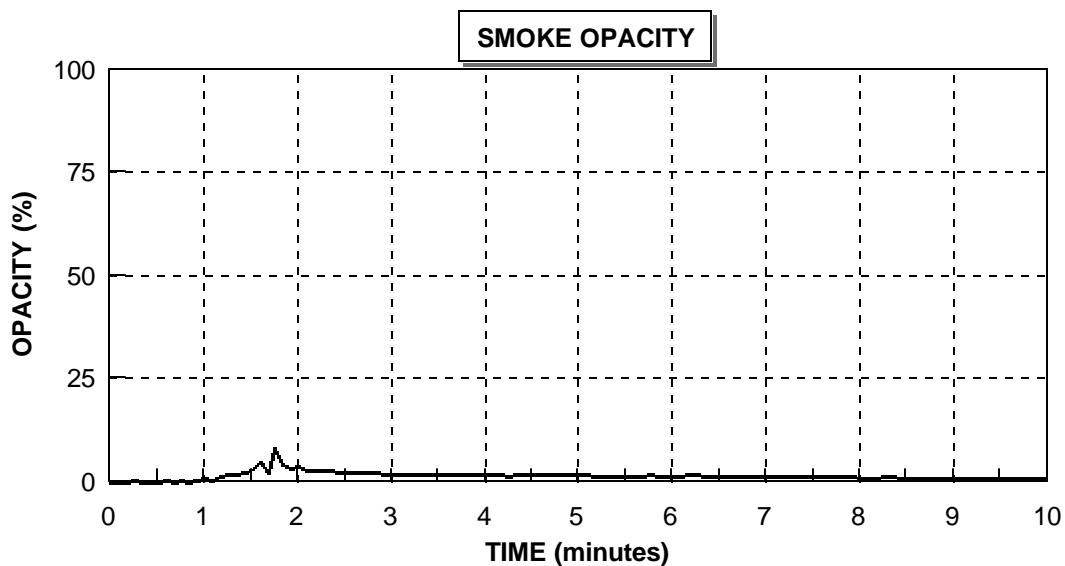
SUPPLIED CONSTRUCTION DETAILS

Fabric: Cornerstone Polyester Fabric

TEST RESULTS

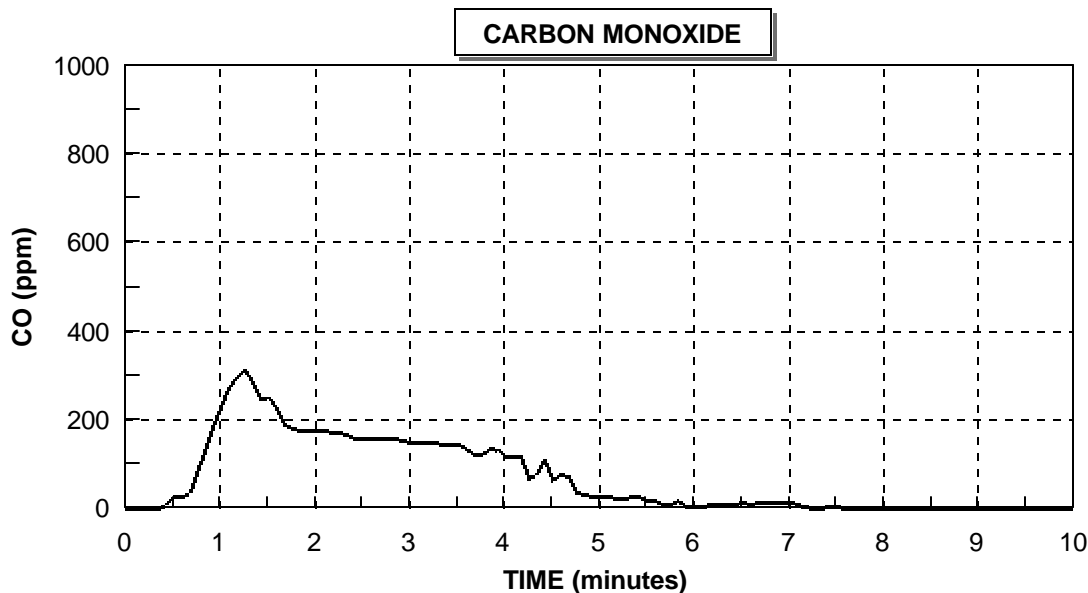


Maximum Heat Release Rate (kW)	18.8
Specified Maximum (kW)	80.0
Total Heat Release at 10 minutes (MJ)	1.4
Specified 10 minute Maximum (MJ)	25.0

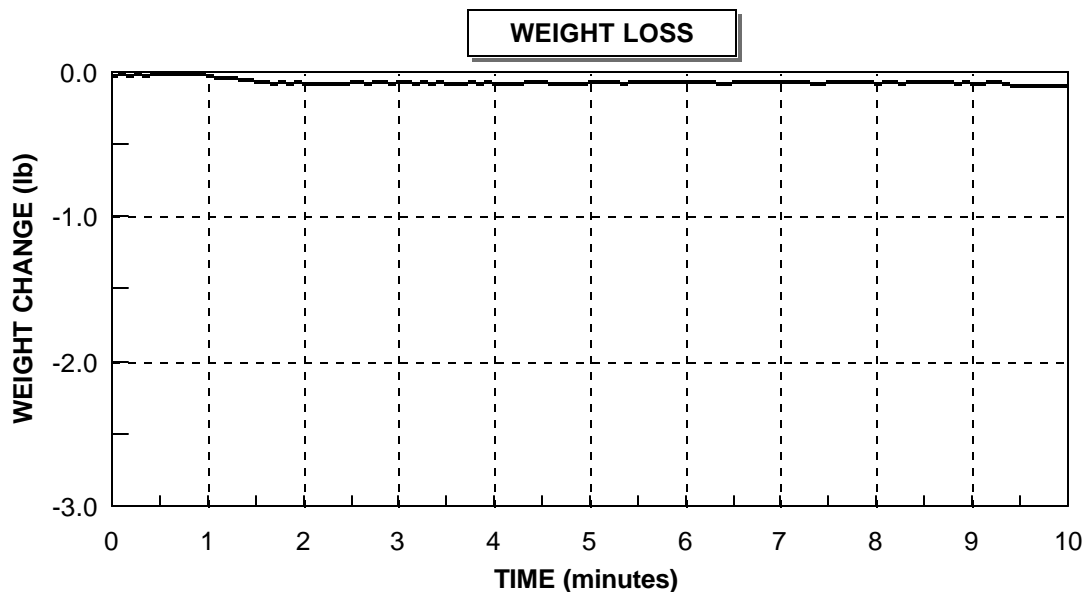


Maximum 4 ft Smoke Opacity (%)	8
Specified Maximum (%)	75

TEST RESULTS

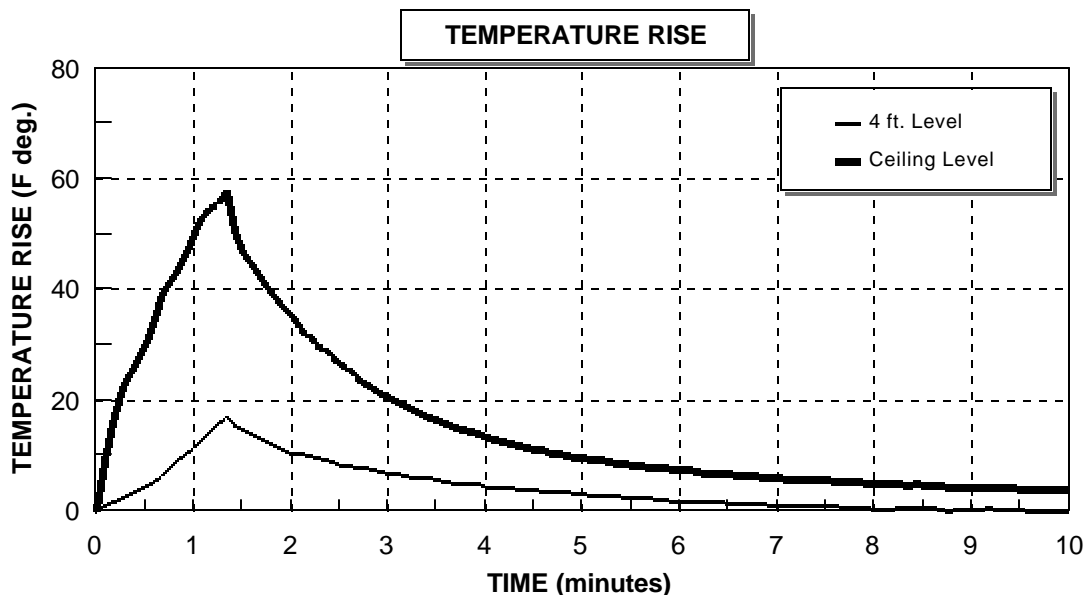


Maximum CO Concentration (ppm)	311
Total time 1000 ppm exceeded (s)	-
Specified Maximum Time (s)	300



Initial Weight (lb)	21.61
Weight at 10 minutes (lb)	21.53
10 minute Weight Loss (lb)	0.08

TEST RESULTS



	4 foot level		Ceiling level	
Initial Temperature (°C) (°F)	18.6	65	22.3	72
Peak Temperature (°C) (°F)	28.0	82	54.5	130
Temperature Increase (F deg.)		17		58

Observations

Flaming activity continued after extinguishment of the test flame at 80 seconds. Self-extinguishment occurred at approximately 2.3 minutes and smoking behavior continued until approximately 3 minutes. The test was terminated at 10 minutes.

CONCLUSIONS

The seating system identified in this report meets the requirements of California Technical Bulletin 133.

Note: This is an electronic copy of the report. Signatures are on file with the original report.

Robert A. Carleton,
Technologist.

Ian Smith,
Technical Manager.

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