

ELECTRONIC DRAFT COPY

**California Technical Bulletin 133  
Flammability Test for Seating Furniture  
on "Series: Melo" Chair**

A Report To: **Buzz Seating**  
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Attention: Dan O'Hara

Submitted By: Fire Testing

Report No. 08-002-263  
6 pages

Date: April 4, 2008

**ACCREDITATION**

Standards Council of Canada, Registration #1.

**REGISTRATION**

ISO 9001:2000, registered by QMI, Registration #001109.

**SPECIFICATIONS OF ORDER**

Conduct California Technical Bulletin 133 "Flammability Test Procedure for Seating Furniture for Use in Public Occupancies", as per our Quotation No. 08-002-3515 accepted March 26, 2008.

**IDENTIFICATION**

Chair identified as: "Chair Series Name: Melo, Model ME45".

(Bodycote sample identification number 08-002-S0263)

**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**



**"Model ME45" Chair**



**Test Damage**

**CONSTRUCTION**

Back: Nylon mesh back

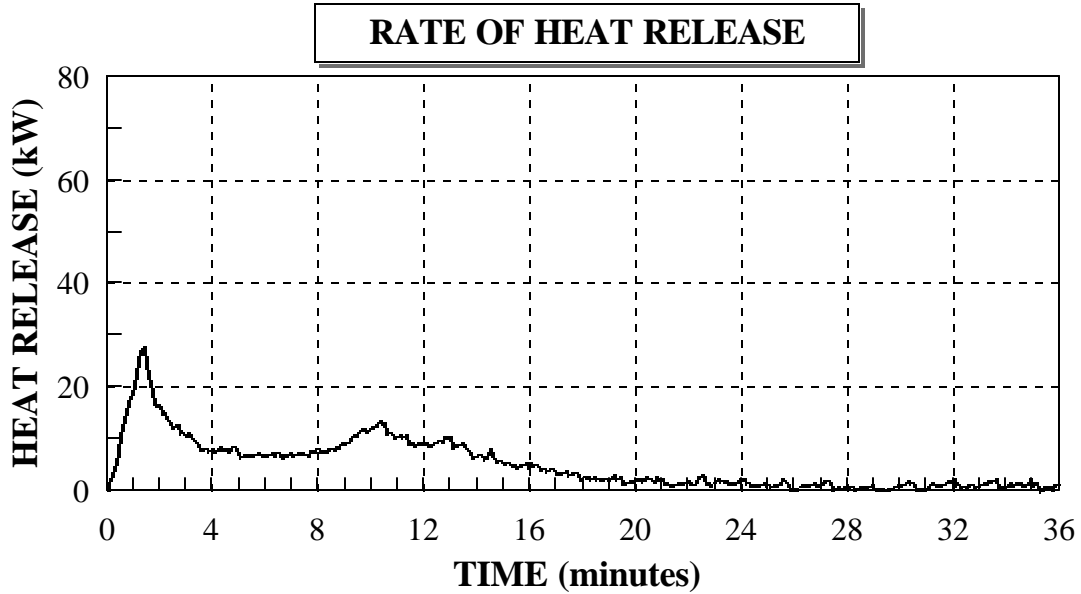
Upholstery: Seat upholstered in Cornerstone 100% polyester fabric

Seat Foam: Standard polyurethane foam

Fire Barrier: Seat foam and seat wood completely upholstered in Kevlar

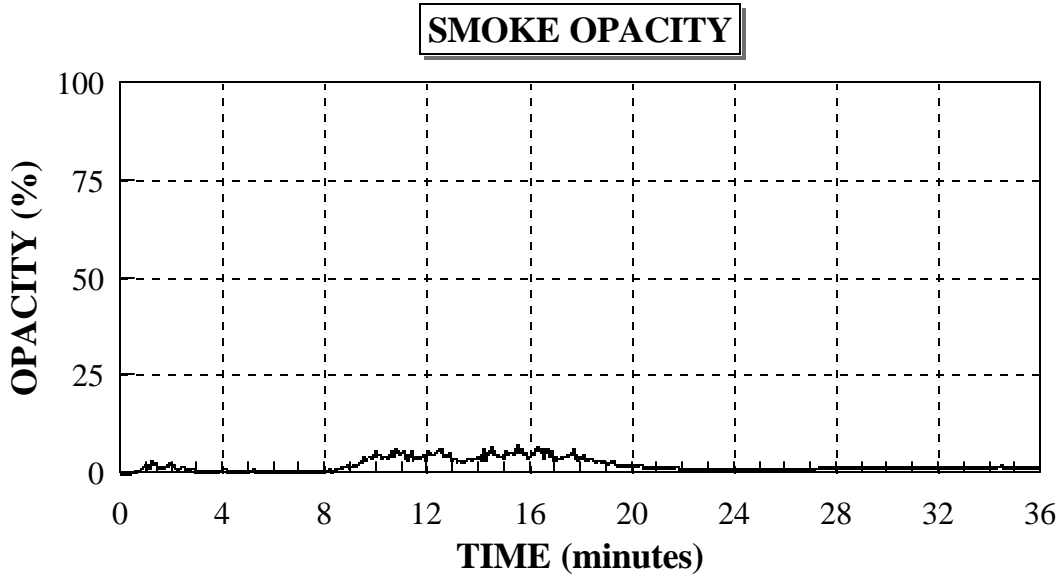
Arms: Standard height adjustable arms with arm pads

**TEST RESULTS**



Maximum Heat Release Rate (kW)	27.9
Specified Maximum (kW)	80.0

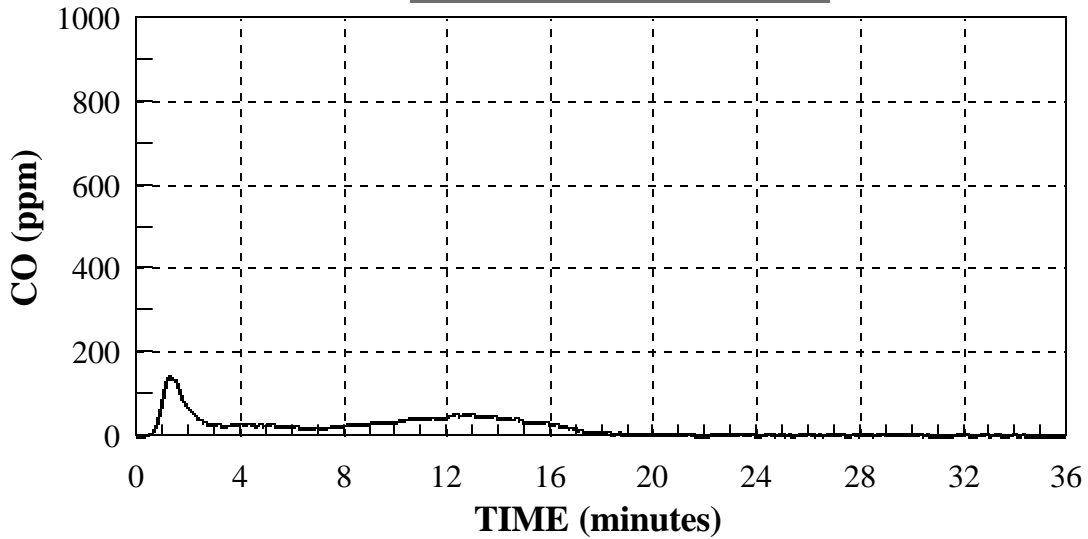
Total Heat Release at 10 minutes (MJ)	6.0
Specified 10 minute Maximum (MJ)	25.0



Maximum 4 ft Smoke Opacity (%)	7
Specified Maximum (%)	75

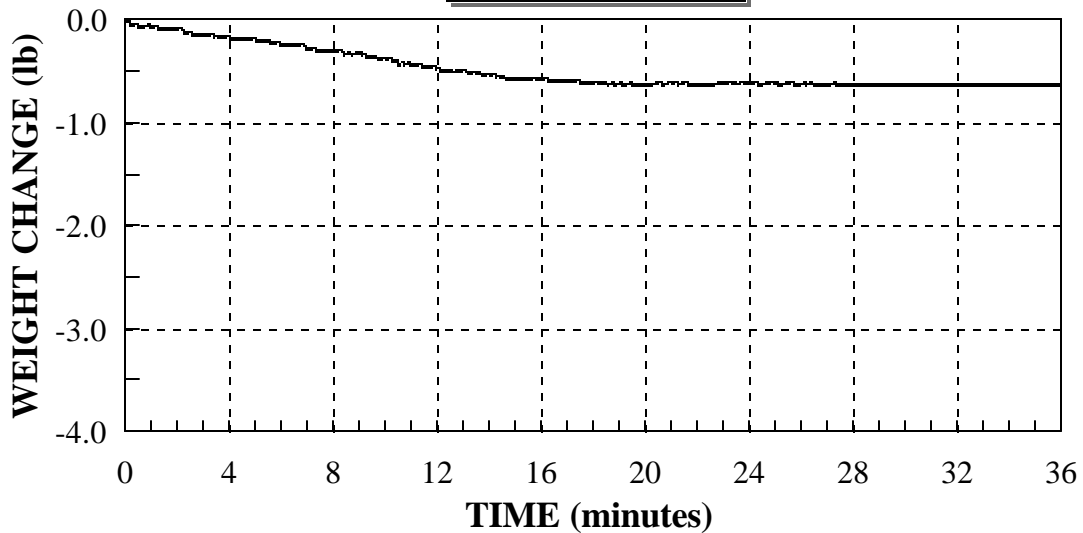
**TEST RESULTS**

**CARBON MONOXIDE**



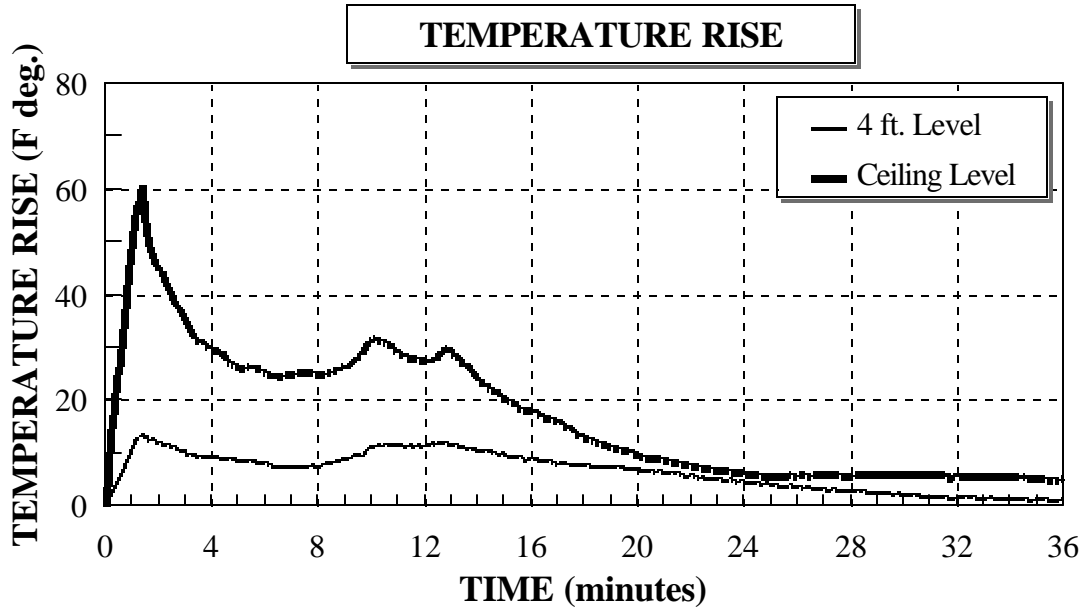
Maximum CO Concentration (ppm)	142
Total time 1000 ppm exceeded (s)	-
Specified Maximum Time (s)	300

**WEIGHT LOSS**



Initial Weight (lb)	38.14
Weight at 10 minutes (lb)	37.77
10 minute Weight Loss (lb)	0.37

**TEST RESULTS**



	4 foot level		Ceiling level	
Initial Temperature (°C) (°F)	20.5	69	22.8	73
Peak Temperature (°C) (°F)	28.1	83	56.6	134
Temperature Increase (F deg.)		14		61

**Observations**

Flaming activity continued after extinguishment of the test flame at 80 seconds. Melting and flaming dripping activity was observed from the arm pads of the chair. Self-extinguishment ultimately occurred at approximately 35 minutes and the test was terminated at 36 minutes.

**CONCLUSIONS**

The chair 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,  
Fire Testing.

Ian Smith,  
Fire Testing.

*Note: This report consists of 6 pages, including the cover page, that comprise the report "body". It should be considered incomplete if all pages are not present.*