
Boston IX-11 Mattress Fire Test

Norix Group, Inc
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Tested By:
Shane Lewis
Certified by:
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Sample ID: MQB4-3680-C1DB-5F

OPEN FLAME EVALUATION – BOSTON IX-11

TEST RESULTS SUMMARY:

This report presents the results of a full scale **Boston IX-11** open flame test conducted on the following.

PROJECT #:	30161 16-ESP023851 NORIX GROUP
TEST SEQUENCE #:	1
TEST CONFIGURATION:	Test Room - 12' x 10' x 8'
PRODUCT MANUFACTURER or SUPPLIER:	NORIX GROUP INC
Sample ID:	MQB4-3680-C1DB-5F
TEST AREA: temp (°F) / R.H. (%): CONDITIONING ROOM: temp (°F) / R.H. (%): TIME OUT OF CONDITIONING (removal / test start - total):	73 / 54 71 / 41 04:33 PM / 04:42 PM - 9 minutes
TOTAL INITIAL MASS (kg):	11.20
TEST DATE:	09-12-2016
COMMENTS:	
Test Operator:	SHANE LEWIS
Witness:	

Test Results	Data	Criteria	Pass/Fail
Peak rate of heat release (kW):	57.3	150 kW	--
Time @ peak release (mm:ss):	04 : 51	--	--
Total heat released @ 10 min (MJ):	22.2	30.0 MJ	--
Total mass loss @ 10 min (kg):	1.5	2.6 kg (5.8 lbs)	--
Total mass loss @ test completion (kg):	2.1	2.6 kg (5.8 lbs)	--

PASS/FAIL CRITERIA:

PEAK RATE OF HEAT RELEASE SHALL NOT EXCEED 150 kW

TOTAL HEAT RELEASED AT 10 MINUTES SHALL NOT EXCEED 30 MJ

MASS LOSS SHALL NOT EXCEED THE WEIGHT OF THE BED CLOTHS

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STANDARD TEST PROCEDURE:

This test was conducted in accordance with Boston Fire Department “BFD IX-11 Mattress Fire Test”. A brief summary is detailed below:

The mattress set was allowed to condition for at least 48 hours in conditions of: temperature – 70°F +/- 5° and relative humidity – less than 55. The instrumentation was calibrated and zeroed prior to the evaluation. The mattress set was placed on the bed frame and outfitted with the specified bed cloths prior to ignition. Data logging and video were obtained for 2 minutes prior to ignition.

The test proceeded until either all combustion had ceased, 30 minutes had passed or the development of a fire of such size as to require suppression for the safety of the facility.

NOTE: only heat release, total heat release and mass loss were reported.

Equipment		
Gas Analyzer	s/n: 653286	Calibration due date: 12-17-16
Dry Test Meter	s/n: 03D487813	Calibration due date: 02-16-17

REMARKS:

Due to the nature of the test, the specimen was discarded upon completion of the procedure.

Tested by:



Shane M. Lewis
Engineering Technician
Sleep System Evaluation

Certified by:



Brent L. Larson
Manager
Sleep System Evaluation
Phone: (651) 659-7218

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