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DATE: June 30, 2004

TWIN CITY TESTING CORPORATION 662 Cromwell Avenue St. Paul, Minnesota 55114

OPEN FLAME EVALUATION CONDUCTED ON A "PINNACLE" HOSPITAL MATTRESS

IN ACCORDANCE WITH
CALIFORNIA TECHNICAL BULLETIN 129
"FLAMMABILITY TEST PROCEDURE FOR MATTRESSES
FOR USE IN PUBLIC BUILDINGS"

Prepared for:
DERBY INDUSTRIES
Attn: Mr. Tim Shelby
24350 State Road 23 South
South Bend, IN 46614

Client Purchase Order Number: 04022004

Prepared by:

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Reviewed by:

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The test results contained in this report pertain only to the samples submitted for testing and not necessarily to all similar products.

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OPEN FLAME EVALUATION - CA T.B. 129

INTRODUCTION:

This report presents the results of a full scale open flame test conducted on the following:

TB 129

PROJECT#:		30160 04-61095	
TEST SEQUENCE #:	1		
TEST REQUESTOR: name:	Tim Shelby		
address:	24350 State Road 23 South		
	South Bend, IN 46614		
TEST CONFIGURATION:	C - Test Room - 12'x10'x8'		
PRODUCT MANUFACTURER or SUPPLIER:	Derby Industries		
PRODUCT ID MARKS & DESCRIPTION:	Pinnacle #1 / IR 603680		
MATTRESS: width x length x thickness (in):	35.00 × 80.00 × 6.00		
FOUNDATION: width x length x thickness (in):	X X		
CONDITIONING ROOM: temp ("F) / R.H. (%): BURN ROOM: temp ("F) / R.H. (%):	72.0 / 50 /		
TOTAL INITIAL MASS (kg):	8.03		
TEST DATE:	06-22-2004		
COMMENTS:	00-22-2004		
OOMMENTO.			
Test Results	Data	Criteria	Pass/Fail
Peak rate of heat release (kW):	67.7	100 kW	Pass
Time @ peak release (mm:ss):	47 : 45		-
Total heat released @ 10 min (MJ):	9.7	25.0 MJ	Pass
Total mass loss @ 10 min (kg):	0.3	1.4 kg (3.0 lbs)	Pass
Peak rate of smoke release (m²/s):	1.1		-
Time @ peak smoke (mm:ss):	56 : 29		-
Total smoke released @ 10 min (m²):	114.0		-

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OBSERVATIONS:

Time (mm : ss)	Observation
00 : 00	Burner ON
00 : 11	Flaming Droplets
00 : 18	Flaming Droplets
00 : 29	Flaming Droplets
02 : 19	Flaming Droplets
03 : 00	Burner OFF
31 : 24	Flaming Droplets
31 : 25	Flaming Droplets
31 : 44	Flaming Droplets

TEST PROCEDURE:

This test was conducted in accordance with California Technical Bulletin 129, a brief summary is detailed below:

The mattress was allowed to condition for at least 24 hours in conditions compliant with California technical bulletin 129 (temperature $-73^{\circ}F \pm 5^{\circ}F$ / relative humidity $-50\% \pm 5\%$). The instrumentation was calibrated and zeroed prior to the evaluation. After the specimen was placed on the bed frame inside the test room the burner alignment procedure was performed. Data logging and video were obtained for 1 minute prior to burner ignition. The burner application time was 180 seconds. Upon completion of the flame application time, the burner unit was removed from the test room.

The test proceeded until either all combustion had ceased, 60 minutes had passed or the development of a fire of such size as to require suppression for the safety of the facility.

REMARKS:

Due to the nature of the test the specimen will be discarded upon completion of the procedure, unless otherwise requested.

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SAMPLE DESCRIPTION:

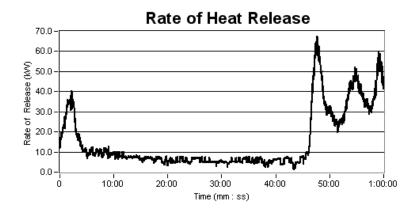
Product:	Sample ID or Model#:				
Pinnacle	IR 603680				
Fabric Type (include % composition and weight):	Fabric Color:				
Vinyl	Grey				
Sample Weight:	Weight of Combustibles:				
20 lbs	20 lbs				
Weight of Frame:	Interliner/Blocking Layer Description (if present):				
	Integrity 30				
Fill Description (with order of Layering):	Mattress Dimensions:	Foundation Dimensions:			
	36" x 80" x 6"	NONE			
Does the Sample contain any of the following: (Check all that apply)					
YES NO					
N P S	F C1	Br			

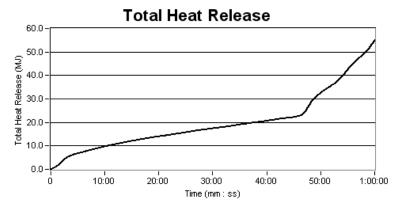
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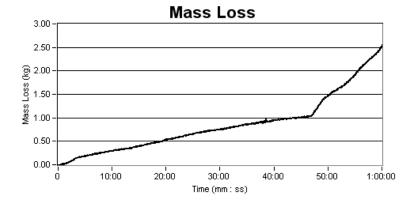
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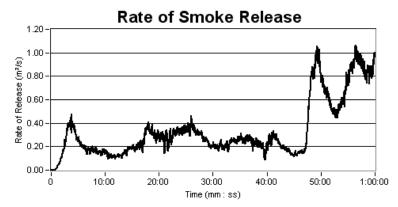
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GRAPHS:









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