

Ohio Penal Industries Product Specifications

January 2009 – December 31, 2009

The purpose of this memorandum is to be used as documentation for referenced America Correctional Association (A.C.A) Mandatory Standard 4-4213, which related to Fire Safety Performance Requirements of the Facility Furnishings.

Ohio Penal Industries offers a vast array of products. The material required to make these products are purchased through State Term Contracts.

Ohio Penal Industries, as well as State Purchasing, reviews the contracts to ensure that all the product specifications, requirements and regulations are met. In the event a new regulation, requirement or specification is created, an addendum can be issued for said contractor and it can be added to the specifications for invitation to bid.

In an effort to simplify the required documentation needed for this A.C.A Standard, listed below are the *Ohio Penal Industries* manufactured products and test methods used that pertain to this Standard.

Mattress:

The mattress cover is made of Bacteriostatic Hospital Fabric that is tested using Federal Standard Test Method (2) 5903.2 (Flame Retardancy).

The mattress is also tested to met or exceed Federal Register Part II, Consumer Product Safety Commission 16 CFR Part 1633 – Standard for the Flammability (Open Flame) of Mattress Sets.

The mattress core is tested for Flame Retardance using California Technical Bulletins # 117, # 121, and # 129.

A sample of the material used is sent to the Ohio Department of Commerce, Division of Industrial Compliance – Bedding/Upholstery Section to verify the material and percentages used for Law Labeling purposes.

A Law Label is then attached to each item indicating the percentages used in the manufacturing process.

A Flammability Label is attached to the product stating that, “This article meets the Flammability requirements of the California Bureau of Home Furnishings Technical Bulletin # 117.

Pillow:

The pillow cover is made of Bacteriostatic Hospital Fabric that is tested using Federal Standard Test Method 191, Method (2) 5903.2 (Flame Retardancy).

The pillow is tested for Flame Retardance using California Technical Bulletin # 117, # 121, and # 129.

A sample of the material being used is sent to the Ohio Department of Commerce, Division of Industrial Compliance – Bedding/Upholstery Section to verify the material and percentages used.

A Law Label is then attached to the product stating the material and at what percentages is used in the product.

A Flammability Label is attached to the product stating “This article meets the Flammability Requirements of the California Bureau of Home Furnishings Technical Bulletin # 117.

Upholstered or Cushioned Furniture:

The upholstered material, vinyl and fabric that are used in the products are tested as appropriate using the following methods and/or regulations; Federal Specifications CCC-A-680a, Boston Fire Code (BFDIX-1), NFPA 701 (Small Scale and Large Scale), FAA25.853 Vertical, MVSS 302, New York and New Jersey Port Authority Code, California Technical Bulletin # 117 (Section E), BIFMA (Class 1), City of Boston Flammability Codes, UFAC (Class 1), ASTM – E-84-81a, ASTM E 662 and NFPA 260.

OPI Correctional Industries is currently testing to California Technical Bulletin # 133 requirements.

A sample of the material is sent to the Ohio Department of Commerce, Division of Industrial Compliance – Bedding/ Upholstery Section to verify the material and percentages used.

A Law Label is attached to the product stating the material and percentages used.

A Flammability Label is attached to the product stating “This article meets the Flammability Requirements of the California Bureau of Home Furnishings Technical Bulletin # 117.

Upholstered or Cushioned Furniture Continued:

OEI (Original Equipment Industries) – OEI Standard Seating Lines

Per OEI, all fill materials consist of 100% Polyurethane Foam and meet all requirements of California Bureau of Home Furnishing Bulletin 117 for Registration Number PA – 241176 (WI).

Per OEI, all fill materials consist of 100% Polyurethane Foam and meet all requirements of California Bureau of Home Furnishing Bulletin 133 for Registration Number PA – 241176(WI).

OEI (Original Equipment Industries) – Breathe Seating Line

Per OEI, all fill materials consist of 100% Polyurethane Foam and meet all requirements of California Bureau of Home Furnishing Bulletin 117 for Registration Number CA – 31813 (TW).

OEI (Original Equipment Industries) – Ithaca Seating Line

Per OEI, all fill materials consist of 100% Polyurethane Foam and meet all requirements of California Bureau of Home Furnishing Bulletin 117 for Registration Number CA – 28684.

NIGHTINGALE Corp.

Per Nightingale, all fill materials consist of 100% Polyurethane Foam for Registration Number CA – 38309 CD.

INDIANA CHAIR FRAME COMPANY

Per Indiana Chair Frame Company, all fill materials consist of 100 % Polyurethane Foam.

WARVEL ENGINEERED PRODUCT SOLUTIONS

Per Warvel Engineered Product Solutions, all Warvel manufactured foam is a low volatile organic compound (VOC) emission Diphenylmethane Diisocyanate (MDI) formulation. All Warvel manufactured seat foam has passed the applicable California Bureau of Home Furnishing Bulletin 117 Flammability Tests for the office furniture industry.

Tab Textiles – Pillow Cases & Bed Sheets:

Per Tab Textiles, all 45-inch and 54 – inch sheeting material sent out comply with the requirements of the State Fire Marshal Regulations as set forth in Part 2, Title 19 of the California Code of Regulations. This is per letter dated October 24, 2005.

Panels for Office Modular Furniture:

These specifications pertain to Upholstered Vinyl, Fabric and Panel Fabric Materials that cover the Modular Furniture.

The panels met Surface Burning Characteristics – UL 25/50 and met or exceed the following:

- 1) Federal Specifications CCC-A-680a
- 2) Boston Fire Code (Small Scale Test)
- 3) NFPA 701 (Small Scale Test)
- 4) FAR 25.835b (Aircraft – Department of Transportation)
- 5) MVSS 302 (Automobile – Department of Transportation)
- 6) New York and New Jersey Port Authority Code
- 7) California Technical Bulletin 117-80 (Section – E)
- 8) BIFMA Class 1
- 9) UFCA Class 1
- 10) ASTM E-84

MAISPACE – Modular Office Panels – Thomas Ruff Company:

Per the Thomas Ruff Company they are tested to/ for:

- 1) ASTM Designation E84-03
- 2) UL 723
- 3) ANSI/NFPA No.225
- 4) UBC No. 8-1
- 5) NFPA 101 Life Safety Code
- 6) Uniformed Building Code – Chapter 8, Interior Finishes, Section 801-807

Steel Shelving:

The Contemporary Storage System is made with raw material steel. It meets or exceeds the following standards:

- 1) ANSI/BIFMA – American National Standard Test for Vertical Files X5.3
- 2) Racking: ANSI/BIFMA Standard 7.2
- 3) Shock: ANSI/BIFMA Standard 7.2
- 4) Bend Test for Steel Sheets; The steels sheets used for part to be formed shall withstand 180 degrees bend at room temperature with and across the grain without showing any crystallization, cracks or fractures on the outside of the bind.
- 5) Moving Test: ASNI/BIFMA Standard X5.3

SPACE SAVER CABINET

Cabinets are constructed of 7/8” square tubing and # 13 expanded metal. Each shelf is constructed of 18 Gauge metal.

Steel Bed Frames

SPRING BED “SINGLE”

The Head/Footboard cross rails are constructed with 1”x 1 ½ “x 18 gauge Rectangle Tubing. The Head/Footboard uprights are constructed with 1 ½ “x18 gauge Square Tubing. The Frame sides and ends are constructed with 2” x 1 ½”x 3/16” Angle Iron. The Bed Frame Hanger is constructed with 2” x 1 ½”x 1/8” Angle Iron. The Frame Side Plate is constructed with 11gauge CR Sheet Metal. The Frame Spreader Bar is constructed with 1”x 14gauge Round Tubing

SPRING BED “SINGLE” – Fiberesin Head/Footboard

The Head/Footboard cross rails are constructed with 1”x 1 ½ “x 18 gauge Rectangle Tubing. The Head/Footboard uprights are constructed with 1 ½ “x18 gauge Square Tubing. The Frame sides and ends are constructed with 2” x 1 ½”x 3/16” Angle Iron. The Bed Frame Hanger is constructed with 2” x 1 ½”x 1/8” Angle Iron. The Frame Side Plate is constructed with 11gauge CR Sheet Metal. The Frame Spreader Bar is constructed with 1”x 14gauge Round Tubing
Fiberesin Insert ¾” Double Face Fiberesin

PAN BED "SINGLE"

The Head/Footboard cross rails are constructed with 1"x 1 1/2" x 18 gauge Rectangle Tubing. The Head/Footboard uprights are constructed with 1 1/2" x 18 gauge Square Tubing. The Frame sides and ends are constructed with 2" x 1 1/2" x 3/16" Angle Iron. The Bed Frame Hanger is constructed with 2" x 1 1/2" x 1/8" Angle Iron. The Frame Side Plate is constructed with 11 gauge CR Sheet Metal. The pan is constructed using 11 gauge CR Sheet Metal.

All material conforms to AISI 1010, ASTM A-366, ASTM A-513, and ASTM A-569 standards.

Ohio Penal Industries
Product Specifications

Ohio Penal Industries utilizes Independent Laboratories to conduct Flammability Requirements of the above said regulations to ensure compliance with the California Technical Bulletins.

As *Ohio Penal Industries* continues to grow and expands its product line and/or the requirements and standards change, we will notify you with an addendum to this with a letter stating the changes that were made.

If you should have any additional questions regarding testing and specification requirements, please contact me.

Jim Cochran

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