Wisconsin
Department of Commerce

Evaluation # 200817-B
(Replaces 200263-B)

Safety & Buildings Division
201 West Washington Avenue
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Wisconsin
Building Products Evaluation

Material	MAXAM26 and MAXAMPLUS Telescopic Bleachers
Manufacturer	Hussey Seating Company 38 Dyer Street North Berwick, Maine 03906

SCOPE OF EVALUATION

GENERAL: This report evaluates the interior folding bleacher Models MAXAM26 and MAXAMPLUS telescopic bleachers manufactured by Hussey Seating Company, Inc.

The **IBC** requirements below in accordance with the current **Wisconsin Amended ICC Code:**

- **Minimum Required Egress Width (general):** The interior folding bleacher Models MAXAM26 and MAXAMPLUS telescopic bleachers have been evaluated for conformance in accordance with **ss. IBC 1005.1**.
- **Means of Egress Continuity:** The interior folding bleacher Models MAXAM26 and MAXAMPLUS telescopic bleachers have been evaluated for conformance in accordance with **ss. IBC 1003.6**.
- **Egress Required Aggregate Width for A-4 Assembly:** The interior folding bleacher Models MAXAM26 and MAXAMPLUS telescopic bleachers were evaluated in accordance with **s. IBC 1025.6.**
- **Guardrails:** The interior folding bleacher Models MAXAM26 and MAXAMPLUS telescopic bleacher guardrails have been evaluated in accordance with **s. IBC 1013.1**, **Exception 7.**, and **s. IBC 1025.14**.
- **Bench Seating:** The interior folding bleacher Models MAXAM26 and MAXAMPLUS telescopic bleacher bench seating was evaluated in accordance with **s. IBC 1025.15**.
- **Bleacher Structure:** The interior folding bleacher Models MAXAM26 and MAXAMPLUS telescopic bleachers are designed and constructed in accordance with **s. IBC 1604.1, s. IBC 1604.2** and **s. IBC 1607.l**, and **Note c.** of **Table 1607.1.**

DESCRIPTION AND USE

The interior folding bleacher Model MAXAM26 and MAXAMPLUS are constructed using tubular shaped main columns of 46 ksi minimum yield steel. Flat strip members are used for sway bracing.

MAXAMPLUS is the general description of the gym seating having a row spacing of 30-, 32- or-, 33-inches. This model is available with 10-inch wood seats, 10-inch or 12-inch contoured plastic seats or, individual fold down chairs that store on the deck as the bleacher is closed. The wood and contoured plastic bench seats are also available with wood or plastic fold down backrests.

MAXAM26 is the general description of the gym seating having a row spacing of 22-, 24-, or 26-inches. This model is available with 10-inch wood or 10-inch and 12-inch contoured plastic seats.

Wood seat boards and front riser boards are Southern Yellow Pine. The rear riser is 14 gauge, 40 ksi, galvanized roll formed steel. A 14 gauge, 40 ksi, galvanized roll formed steel nose provides support for the front of the plywood decking and seats.

The seat and riser board support bracket is 12 gauge, 50 ksi, painted steel.

The footrest or decking for MAXAM26 is 5-ply, 19/32-inch Southern Yellow Pine plywood, tongue and groove, Group 1, exterior glue, A-C plugged, produced in conformance with the requirements of American Plywood Association PS 1-07. The footrest or decking for the MAXAMPLUS is 7-ply, 23/32-inch with the same specs as for MAXAM26. Face grain is installed perpendicular to the seating for both MAXAM26 and MAXAMPLUS.

Wall attached sections have a maximum of 30 rows for 9-5/8 inches of rise, and 25 rows for 11-5/8 inches of rise and 18 rows for 16 inches of rise.

Portable sections have a maximum of 15 rows for 9-5/8 inches of rise, and 12 rows for 11-5/8 inches of rise, and 9 rows for 16 inches of rise.

Aisles with intermediate steps are provided on all seating plans. The steps shall have a rise of not more than 9 inches and a tread width of not less than 11 inches.

CALCULATIONS

Structural calculations for Hussey Seating Co., Inc., telescopic bleachers were prepared (signed and sealed) and are on file with the department. Deck performance calculations are also on file with the department.

LIMITATIONS OF APPROVAL

The limitations below are in accordance with the current **Wisconsin Amended ICC Code:**

- **Bleachers:** Per **s. IBC 1025.1.**1 the interior folding bleacher Models MAXAM26 and MAXAMPLUS telescopic bleachers shall comply with this approval and ICC 300.
- **Guardrails** shall be provided at all exposed section ends. Guardrails are constructed to prevent the passage of a sphere larger than 4-inches in diameter. In accordance with **s. IBC 1025.14**, when bleachers have more than one pull-out section, the plan submittal shall show end guardrails per section (or sockets for installation of guardrails per section), or designed such that individual

bleacher sections **cannot** be extended without extending the rest of the sections. Guardrail design and placement shall comply with the requirements of **s. IBC 1025.14**.

- **Aisles:** All bleachers with contoured seats must be provided with aisles, in accordance with **s. IBC 1025.9.6**. **Exiting via the seat boards is not permitted with contoured seats.**
- **Occupant Capacities:** The occupant capacities of buildings and rooms within buildings are established by exit width, toilets and the class of construction of the building. The capacity of the bleachers **cannot exceed** the allowable capacity of the room or building.
- **Exit Width:** The exit width indicated in **s. IBC 1025.9.1** through **s. IBC 1025.11** applies only to the aisles and exit paths within the perimeter of the bleachers. It does not apply to the exit width from the room in which the bleachers are located, nor from the building. Exit width requirements from the room and building are determined by **s. IBC 1025.1** through **s. IBC 1025.7**.

This approval covers (1) 25'-6" section for MAXAM26 and (1) 19'-6" section for MAXAMPLUS.

This approval is not for an individual project, but for the design concept only. Plans are required for each project indicating the approval number, member sizes, wall and floor anchoring information, guardrail details, size and location of bleacher aisles and construction details required to construct the bleachers from the plans.

Except as noted below, calculations and drawing details shall be submitted on a job-to-job-basis showing floor and or wall anchorage loads and how attached, respectively, in accordance with **s. Comm 61.30**.

In accordance with **s. Comm 61.30**, anchorage details shall be shown on the plans indicating how folding bleachers are attached to the wall and floor. If installation is in an older building, (more than 4 years old), bleacher plans shall show the construction of the wall and/or floor to which the bleacher section will be anchored. This material approval also waives floor anchorage calculations to solid concrete walls and light-weight concrete block only (see **DESCRIPTION AND USE** section). Both wall/floor anchorage details shall be shown on plans on a job-to-job basis. Wall anchorage details and calculations are required for wall anchorage to wood stud/drywall, etc., on a job-to-job basis.

The Hussey bleachers are approved for plan submittal without structural calculations showing that dead and live load support for open or partially opened and dead load in the closed position, can be safely carried by the supporting structure in accordance with **s. Comm 61.30**.

Forward-folding bleachers must be securely bolted to the floor to prevent overturning in the closed position. Movable bleachers shall have stops so that it is not possible to move the bleacher when it is being used. Tier catches, which impede this movement, shall be supplied on all sections and all rows.

Additional information required with plans submitted on a job-to-job basis:

1. Details of row locks, wheels and wheel channels with calculations showing that they stop front-to-back movement when seating is partially or fully opened;
2. Floor anchorage calculations and details for bleachers installed in a permanent telescoped position, in accordance with **s. Comm 61.30**.

This approval does not address barrier-free requirements. Accessible seating in accordance with the applicable requirements in **IBC Chapter 11** shall be reviewed during building plan review.

This approval will be valid through December 31, 2013, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The product approval is applicable to

projects approved under the current edition of the applicable codes. This approval may be void for project approvals made under future applicable editions. The Wisconsin Building Product Evaluation number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Revision Date:
Approval Date: January 12, 2009 By: _____

Lee E. Finley, Jr.
Product & Material Review
Integrated Services Bureau

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