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DIVISION: 08—DOORS AND WINDOWS
Section: 08580—Special Function Windows

REPORT HOLDER:

BOMAN KEMP MANUFACTURING, INC.
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EVALUATION SUBJECT:

BOMAN KEMP BASEMENT WINDOW SYSTEM, MODEL 4040

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

Property evaluated:

Structural

2.0 USES

The Boman Kemp Basement Window System, Model 4040, is used as an emergency escape and rescue system in accordance with IBC Section 1026 or IRC Section R310.

3.0 DESCRIPTION

The Boman Kemp Basement Window System, Model 4040, is comprised of a cold-formed corrugated galvanized steel shell with a base-metal thickness of 0.043 inch (1.092 mm), a ladder, a steel grate, a plastic cover, and a cold-formed galvanized steel window buck. The ladder and grate have a powder-coated finish. The unit is nominally 3 feet deep by 4½ feet wide by 4½ feet high (914 by 1372 by 1372 mm) with an open bottom. The floor for the unit may be of any material acceptable to the code official, such as concrete or gravel. The ladder is 12 inches (305 mm) wide with rungs that project 4 inches (102 mm) from the wall and that are spaced 12 inches (305 mm) on center. See Figure 1.

4.0 DESIGN AND INSTALLATION

4.1 Design:

The window well is designed for a maximum lateral soil load of 60 psf/ft (9 Pa/mm). The window well cover grate is designed for a maximum live load of 40 psf (1915 Pa). The

window well ladder is designed for a maximum live load of 300 pounds (136 kg).

4.2 Installation:

The Boman Kemp Basement Window System, Model 4040, must be installed in accordance with the manufacturer's published installation instructions, IBC Section 1026 or IRC Section R310, and this report. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs. A copy of the manufacturer's published installation instructions must be on the jobsite at all times during installation.

The Boman Kemp Basement Window System, Model 4040, is placed over the studs on the window buck and bolted in place. Then the ladder, steel grate, and plastic cover are put in place. The ladder must be attached to the window well with a corrosion-resistant sheet metal screw at the top of each ladder rail. The steel grate and plastic cover are held in place by their dead weight.

5.0 CONDITIONS OF USE

The Boman Kemp Basement Window System, Model 4040, described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Drainage for the window well must be provided and must comply with the requirements of the applicable code. Evaluation of the drainage system is outside the scope of this report.
- 5.2** Use of window wells with accessible dwelling units and sleeping units or Type A dwelling units and sleeping units, in accordance with IBC Section 1107.2, is outside the scope of this report.
- 5.3** Windows used in conjunction with the Boman Kemp Basement Window System, Model 4040, are outside the scope of this report.
- 5.4** Excavation and backfill must comply with IBC Section 1803 or IRC Chapter 4.
- 5.5** Windows that swing out into the window well area must not be used with the Boman Kemp Basement Window System, Model 4040.
- 5.6** The Boman Kemp Basement Window System, Model 4040, is produced in Ogden, Utah, under a quality control program with inspections by Testing Engineers, Inc. (AA-532).

6.0 EVIDENCE SUBMITTED

Data in accordance with ICC-ES Acceptance Criteria for Window Wells (AC337), dated October 2005 (editorially revised September 2007).

Manufacturing, Inc.), the model number (4040), the evaluation report number (ESR-1856), and the name of the inspection agency (Testing Engineers, Inc.).

7.0 IDENTIFICATION

Each Boman Kemp Basement Window System, Model 4040 must be labeled with the manufacturer's name (Boman Kemp



FIGURE 1