

**BUILDING MATERIALS EVALUATION COMMISSION  
(BMEC)  
AUTHORIZATION REPORT**

**DATE OF AUTHORIZATION**  
**BMEC REFERENCE**  
**BMEC APPLICATION #**

**August 30, 2001**  
**BMEC # 01-15-267**  
**BMEC # A2001- 14**

**ALUMATEK  
Vertical Rolling Grilles**

**1. Applicant**

Alumatek  
National Headquarters  
680 West 200 North  
North Salt Lake, Utah  
USA, 84054

Tel: (800) 647 -7049  
Fax: (866) 936 -1941

**2. Manufacturing Facilities**

Alumatek  
National Headquarters  
680 West 200 North  
North Salt Lake, Utah  
USA, 84054

**3. Description**

The Alumatek vertical rolling grille is a vertical rolling security grille with guide channels on both sides of the opening and a lock at the bottom of the door. The vertical rolling grille will be opened and closed electronically. In the event of a power failure the vertical grille can be opened mechanically through the use of an emergency release device. When the emergency release device is activated torsion springs will open the grille to a preset height.

**4. Authorization Requested**

The applicant sought authorization for the use of their product as an equivalent means of egress presently permitted by Sentence 3.3.1.11.(3) and F3 (low hazard Industrial) of the 1997 Ontario Building Code as amended.

**5. Assessment**

Reports, assessments and information provided by the applicant indicate that if the Alumatek Vertical Rolling Grille, was performance tested and installed in accordance with the manufacturer's instructions and limitations and with the Specific Terms and

Conditions stated in this Authorization, the level of performance required by the 1997 Ontario Building Code as amended will be provided.

Reports, assessments and information reviewed included the following:

1. Rolling Grille Installation Instructions.
2. Quality Control Manufacturing Measures and Rolling Grille Check List.
3. National Fire Protection Association (NFPA) 101 "Life Safety Code", Section 5-21.4. "Swing and Force to Open".
4. BOCA National Building Code / 1999, "Means of Egress", Section 1017.5.
5. 1998 California Building Code, Section 1003.3.1.
6. International Building Code 2000.
7. Alumatek instructional video tape.

## **6. Authorization**

The Alumatek vertical rolling grille is authorized subject to the following terms and conditions:

### **A. SPECIFIC TERMS AND CONDITIONS:**

1. This authorization is valid only for Alumatek Inc.
2. The Alumatek vertical rolling grille shall remain in the full open position during the period of occupancy by the general public.
3. The Alumatek vertical rolling grille shall only be installed in sprinklered occupancies.
4. Not more than half of the means of egress shall be equipped with the Alumatek vertical rolling grilles.
5. The Alumatek vertical rolling grille shall only be installed for use in Group D (Business and Personal Service), E (Mercantile), and F3 (Low Hazard Industrial) occupancies.
6. The Alumatek vertical rolling grille shall only be used in interior applications, and in applications where the grille will not be exposed to moisture.
7. The maximum width of a Alumatek vertical rolling grille shall not exceed 9.2 m.

8. The emergency release device shall be located in an accessible location not exceeding 1000 mm from either of the vertical rolling grille door jambs.
9. Adjacent to the emergency release device there shall be a readily visible, permanently mounted, durable:
  - (a) sign in letters at least 25 mm high on a contrasting background that reads, "EMERGENCY RELEASE DEVICE SHALL NOT BE VISUALLY OBSTRUCTED", and
  - (b) directional sign (an arrow) which will prominently indicate the location of the emergency release device.
10. Adjacent to the emergency release device there shall be a readily visible, permanently mounted, durable sign in letters at least 25 mm high on a contrasting background that reads "TO OPEN DOOR, PULL LEVER."
11. On the bottom rail of the Alumatek vertical rolling grille there shall be a readily visible, permanently mounted, durable sign in letters at least 25 mm high on a contrasting background that reads " THIS DOOR TO REMAIN IN THE FULL OPEN POSITION DURING THE PERIOD OF OCCUPANCY BY THE GENERAL PUBLIC."
12. On the opposite door jamb to that of the emergency release device there shall be a readily visible, permanently mounted, durable sign in letters at least 25 mm high on a contrasting background that reads "EMERGENCY RELEASE DEVICE IS LOCATED ON THE OPPOSITE SIDE OF THE DOOR."
13. Alumatek vertical rolling grille and the emergency release device shall be annually inspected and tested; and written records of these inspections and tests after they are made shall be kept for a period of not less than 2 years.
14. When in the open position the Alumatek vertical rolling grille shall have a minimum preset height of 2100 mm.
15. All staff shall be trained and be familiar with the location, operation, and use of the Alumatek vertical rolling grille and the emergency release device.
16. The Alumatek vertical rolling grille shall be installed as per the manufacturer's instructions "Rolling Grille Installation Instructions."
17. The Alumatek vertical rolling grille shall be installed and assembled as per the quality control manufacturing measures and "Alumatek Rolling Grille Check List."
18. The emergency release device (EDR) shall be installed as per the manufacturer's instructions "Lift-Master: Emergency Egress Device Modification Flush or Extended Handle 'Installation Instructions'."

## B. General Conditions

1. The use of the Alumatek vertical rolling grille shall comply with the *Building Code Act, 1992* as amended or re-enacted from time to time and except as specifically authorized herein, with the Ontario Building Code as amended or remade from time to time.
2. A copy of this Authorization shall accompany each application for a building permit and shall be maintained on the site of the construction with the building permit.
3. The Applicant named in Part 1 hereof shall promptly notify the BMEC of:
  - (a) the failure of the Applicant, or of the material, system or building design that is the subject matter of this Authorization, to comply with any of the terms and conditions set out in 6. A. above; or
  - (b) the occurrence of any of the events described in Conditions 6. B. 4. (a) and (b) (ii) below.
4. The BMEC may amend or revoke this Authorization where it determines that:
  - (a) any change has been made to:
    - (i) the material, system or building design that is the subject matter of this Authorization;
    - (ii) the address of the applicant specified in Part 1 of this Authorization; or,
    - (iii) the ownership of the applicant specified in Part 1 of this Authorization.
  - (b) the use of the material, system or building design authorized herein;
    - (i) does not comply with the *Building Code Act, 1992* or any relevant legislation as they may be amended or re-enacted from time to time; or
    - (ii) provides an unsatisfactory level of performance, in situ.
  - (c) the Applicant, or the material, system or building design that is the subject matter of this Authorization, has failed to comply with any of the terms and conditions set out in this Authorization; or
  - (d) any Ontario Building Code provision relevant to this Authorization has been amended or remade.

Dated at Toronto this 30th day of August 2001

**BUILDING MATERIALS EVALUATION COMMISSION**

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Rashmi Nathwani, Chair