

## **Glass railing to be installed in front of slab**

(Section 05, Handrail and railing)

### **Modèle : VE225**

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#### **PRODUCT**

Railing model VE225 by Alumidek made of aluminum and glass panels tempered or laminated (optional : aluminum panels, solid or perforated) assembled with the highest quality standards respecting the current National Building Code.

#### **MATERIALS**

- 1) Railing model VE225 is an assembly of aluminum extrusions made of grade 6063-T5 alloy.
- 2) Support posts are extruded in an aluminum alloy of superior construction of grade 6005A-T5 and assembled to an anchor shoe of welded aluminum extrusions specific to Alumidek Base shoe protected by international design patent, No 159980, CIPO (allows support posts to level in three (3) directions).
- 3) Non-visible assembly screws of hot galvanized steel and visible screws of grade 18-8 stainless steel.
- 4) Railing model VE225 handrail, shape as per architect choice, made in one (1) piece up to a maximum length of 20 feet (6 m).
- 5) Glass panels, tempered or laminated, of 1/4" by 3/8" (6 to 10 mm). Inserted into aluminum moldings through flexible EPDM rubber gasket. All glass panels respect CAN/CGSB-12.1-M90 security code.

#### **FINISHING**

- 1) Railing model VE225 Duracron® finishes respects AAMA 2603 norm and is available in a variety of colors. Many different optional finishes are also available such as : Acrynar®, Duranar®, Duranar® XL, Anodization, Decoral® or Powder coating.
- 2) Different glass patterns and finishes are offered on glass panels:
  - a. Tempered glass panel, clear or tinted , regular or "Heat soak" certified.
  - b. Laminated glass panel, clear or colored through the insertion of a color film between the panes of glass.
  - c. Tempered or laminated glass panels silk screened via CERAPRINT® or CERAFRIT®.

# Specifications suite

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## ANCHOR SHOE

- 1) On concrete slabs : supply and / or install anchor shoe with capacity to mechanically expands and contracts, made in stainless steel type 304. The cement slab must offer a load bearing capacity of a minimum of 28 MPA.
- 2) On surface other than concrete slabs: supply or install the proper anchor points for the railing system. It is the client's responsibility to supply proper anchor points that have the capacity to support the load of the railing system.

## MANUFACTURING, INSTALLATION AND APPROVAL

- 1) Final dimensions must be taken on site prior to railing manufacturing.
- 2) Alumidek railing will be delivered on site in pre-assembled modules.
- 3) The railing installation will follow manufacturer's instructions, so that it is levelled, plumbed, aligned and respect plans and specifications approved by the client or architect.
- 4) The distance between posts, the type of anchor shoe as well as the type and thickness of glass, will be determined by an engineer, as a function of weight load and in consideration of wind conditions, positive and negative pressure, to respect local standards
- 5) Engineered shop drawings supplied, when required.

## STANDARDS APPLICABLE

- 1) CAN/CSA-S157-F05 Mechanical resistance of aluminum components.
- 2) CSA-HA-SERIES-M80 Standards for all aluminum and aluminum alloys.
- 3) CSA-CAN3-S16.1-R2004 Steel structures for buildings – limit states design.
- 4) CAN/CSA-086.1-R2009 Wood Engineering design.
- 5) CSA-CAN3-A23.3 –R2004 Design of concrete structures for buildings.
- 6) CSA-CAN3-S304 –R2004 Masonry design for building.
- 7) CSA-W59-R2008 Welded steel construction.
- 8) CSA-W59.2-R2008 Welded aluminum construction.
- 9) W47.2-M –R2009 Certification of company for fusion welding of aluminum.
- 10) AAMA 2603 Organic aluminum siding and architectural panel finishing (Paint).
- 11) CAN/CSGB-12.1-M90 Tempered and laminated glass.