

## Section 10 28 13 : Toilet Accessories

Supplementary item: retractable child step stool, floor anchored

Text ready to drop into the design consultant's terms of reference, and later into the construction specification. Adjust quantities, locations and colours to suit the project. **Articles 2.4 and 2.5 are written in performance terms and provide an equivalence route**, so the item can be specified without restricting competition or favouring any supplier.

### 1 GENERAL

#### 1.1 Section includes

Supply and installation of retractable step stools that allow a child to reach a washroom sink unaided, with no change to the plumbing, no lowering of the basin and no second set of fixtures.

#### 1.2 Design intent

Make handwashing independent for children aged 2 to 8 while keeping the sink at standard adult height for staff, visitors and caregivers. The step folds back on its own after each use: no loose furniture is left in the room, and the floor stays clear for circulation, for wheelchair manoeuvring space and for cleaning.

#### 1.3 Submittals

- Manufacturer's data sheet for each model proposed, including dimensions and projection from the counter.
- Shop drawings or CAD and Revit files showing layout, clearances and anchoring details.
- Manufacturer's installation guide.
- Colour sample or selected RAL reference.

#### 1.4 Warranty

Manufacturer's warranty against defects in manufacture: five (5) years on the aluminum model, including the retraction mechanism; three (3) years on the steel and removable models.

### 2 PRODUCTS

#### 2.1 Reference product

Retractable child step stool, Klimbo K01, K02 or K03, manufactured by Groupe Klimbo Inc. (Montréal, Québec), **or approved equivalent**. A reference product is named for drafting convenience only: acceptance is governed by the requirements of Article 2.4, and any product meeting them is acceptable. Data sheets, CAD and Revit files are available with no form at <https://www.klimbo.co/en-specification>, and equivalent manufacturers are expected to supply the same.

#### 2.2 Acceptable models

| Model                          | Materials and finish                                                                                                                                                                     | Anchoring                                                            | Capacity                                   | Intended use                                                               |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------|
| <b>K01</b><br>The Klimbo       | T6061 aluminum, Axalta polyester powder coat; integrated non slip tread made of recycled tires; blackened 18-8 stainless hardware (316 stainless available for chlorinated environments) | Concrete slab, three steel masonry anchors supplied                  | 370 kg (815 lb)<br>Weight: 9 kg (20 lb)    | New construction and rooms with a finished millwork standard; self folding |
| <b>K02</b><br>The Klimbo Step  | 1018 steel, epoxy primer and Axalta polyester powder coat; adhesive non slip tread made of recycled tires                                                                                | Concrete slab, four 3/8 in x 3 3/4 in anchors with drilling template | 370 kg (815 lb)<br>Weight: 10 kg (22 lb)   | Volume rollouts and upgrades to existing washrooms                         |
| <b>K03</b><br>The Klimbo Stair | T6061 aluminum, Axalta polyester powder coat; wide non slip surfaces                                                                                                                     | None, removable and repositionable, stores under a counter           | 410 kg (900 lb)<br>Weight: 7.25 kg (16 lb) | Rooms where floor anchoring is not retained, or temporary spaces           |

Full dimensions per the manufacturer's data sheets. Projection from the counter, anchored models: 279 mm (11 in). The K01 and K02 are anchored to the floor; the K03 is removable. No model is wall mounted.

#### 2.3 Finish

Standard finish: RAL 7047 Telegrey, included. Selection from 190 classic RAL colours, the Axalta metallic range, or a finish matching the owner's colours, is available at additional cost. A 102 mm x 163 mm (4 in x 6.4 in) wayfinding sign is supplied, to be mounted at eye level.

#### 2.4 Performance requirements

Any product is acceptable provided it meets all of the following: (a) a step stool anchored to the floor, folding back on its own after use, or (b) a removable, one-piece step stool with no loose or separate parts; rated load capacity declared on the manufacturer's data sheet, not less than 360 kg (800 lb); non slip tread surface; finish resistant to standard sanitary cleaning products; minimum three (3) year warranty; data sheet and layout files provided.

#### 2.5 Equivalence review

Bidders proposing a product other than the reference are invited to submit an equivalence request during the tender period, in the form required by the owner, accompanied by the submittals listed at Article 1.3. The professional of record reviews the request against Article 2.4 alone. This article exists so that naming a reference product does not restrict competition.

### 3 EXECUTION

#### 3.1 Installation

Install to the manufacturer's guide, into the concrete slab, using the drilling template supplied. Provide clear floor space in front of the sink matching the projection of the deployed step, outside the manoeuvring space required for a wheelchair. Verify full retraction after installation.

#### 3.2 Coordination with an accessible lavatory

Where a lavatory is required to be accessible (ADA 2010, 213.3.4), do not install the unit within the knee and toe clearance (ADA 2010, 306) or the clear floor space (ADA 2010, 305.4, 606.2) of that lavatory; provide it at another lavatory in the same room. Coordinate the location with the lavatory, counter and required clearances shown on the drawings before rough-in.

#### 3.3 Recommended locations

- At least one step stool in every washroom serving children and youth, on both the girls' and the boys' side.
- In the universal or family washroom where one is provided, and at the sink nearest the entrance.
- At sinks in any public washroom serving the community or family spaces of the building.

#### 3.4 Maintenance

Clean with standard sanitary products; no lubrication required by the operator. Automatic retraction leaves the floor fully clear for washing.

#### 3.5 Note to the design consultant

A public sink sits at a height standardised for an adult: between the ages of 2 and 8, a child does not reach it alone. Written into the scope at the design stage, the step stool integrates with the millwork and the finishes; added after the work is complete, it becomes a loose stool that sits in the circulation path.