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**dormakaba MUTO™ Premium XL 80 (TEL) Telescopic Sliding Glass Door System  
Guide Specification**

The **MUTO**  TEL system, part of a new generation of high performance glass panel sliding door accessories from **dormakaba**, combine versatility and durability with sleek European design. The MUTO TEL system operates on a compact track with the roller assembly hidden inside. The track can be wall face mounted, ceiling mounted or glass mounted. In addition to its aesthetic benefits, the MUTO TEL system provides superior versatility in installation and maintenance. No glass drilling or machining is required for installation.

The **MUTO XL 80 TEL DORMOTION** system provides an air cushioned and spring-drawn controlled stop at the opened and closed-door positions. It is available for single and double panel sliding door systems.

**dormakaba** products are known for their outstanding quality and MUTO is no exception. Endurance tests have subjected the MUTO sliding track system to hundreds of thousands of operating cycles. These tests prove that an all-glass MUTO door will stand up to demanding traffic over time - embodying design and function in perfect transparency.

**dormakaba** interior products and solutions help create balance between function and aesthetics in the interior architecture of office units and professional practices. They provide spatial efficiency, transparency, smooth transitions between spaces, comfort and flexibility.

We recommend you consult with your **dormakaba** representative, who can be contacted through dormakaba USAInc.; (800) 523-8483; email: [specifications@dormakaba.com](mailto:specifications@dormakaba.com); website: [www.dormakaba.com](http://www.dormakaba.com).

**dormakaba** products appear in the following CSI MasterFormat specification sections:

dormakaba INTERIOR GLASS SYSTEMS

08 17 53 Interior Glass Door Assemblies; MUTO / Synchro; RS120 / Synchro; DRS120

08 41 26 All-Glass Entrances and Storefronts: Rail Fittings; Patch Fittings; Dri-Fit rails; VISUR, TENSOR

10 22 15 Fixed Glass Panel Partitions: PURE; PURE Enclose; Prive; Fusion

10 22 39 Folding Partitions, Glass: FSW ES, C

10 22 43 Sliding Partitions, Glass: HSW DRS, ES, MR; HSW ISO; HSW GP, R

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This guide specification is based upon MUTO™ All-Glass Sliding Door Systems.

SECTION 08 42 26 – INTERIOR ALL-GLASS ENTRANCES

1. GENERAL
   * + 1. SUMMARY
          1. Section includes sliding interior all-glass door assemblies.
       2. REFERENCE STANDARDS

Specifier: If retaining References article, edit the list below to include only those references in the edited section.

* + - * 1. American Architectural Manufacturers Association (AAMA): [www.aama.org](http://www.aama.org):

AAMA 611 Voluntary Specification for Anodized Architectural Aluminum

* + - * 1. ASTM International (ASTM): [www.astm.org](http://www.astm.org):

ASTM C1048 Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass

* + - * 1. Builders Hardware Manufacturers Association (BHMA): [www.buildershardware.com](http://www.buildershardware.com):

ANSI/BHMA A156 Series

* + - * 1. Code of Federal Regulations

16 CFR 1201 Safety Standard for Architectural Glazing Materials

* + - * 1. International Code Council (ICC): [www.iccsafe.org](http://www.iccsafe.org):

ICC A117.1 Accessible and Usable Buildings and Facilities (ANSI)

* + - * 1. Safety Glazing Certification Council (SGCC): [www.sgcc.org](http://www.sgcc.org):

Certified Products Directory.

* + - * 1. U.S. Architectural & Transportation Barriers Compliance Board: [www.access-board.gov](http://www.access-board.gov):

Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities

* + - 1. ADMINISTRATIVE REQUIREMENTS
         1. Coordination:

Coordinate installation of interior glass door assemblies with installation of floor and wall opening construction to comply with tolerance requirements of recessed components.

Coordinate installation of anchors and blocking indicated on approved all-glass entrance shop drawings.

* + - 1. ACTION SUBMITTALS
         1. Product Data: For each all-glass entrance component, including:

Glass panels.

Track and carriers.

Door hardware and accessories.

* + - * 1. Shop Drawings: For interior glass door assemblies.

Include plans, elevations, sections, and details. Use glass panel type designations where specified.

Locations and requirements for recesses and attachments to other work.

Door hardware locations, mounting heights, and installation requirements.

* + - * 1. Samples for Verification: For each exposed component including hardware, for each color and finish selected, of size indicated below:

Glass: 6 inches (150 mm) square, showing exposed-edge finish[ and tint].

Track assembly: Manufacturer's standard size, with carrier.

Hardware: One of each type of exposed door hardware items.

* + - 1. INFORMATIONAL SUBMITTALS
         1. Qualification Data: For qualified installer.
         2. Warranty: Sample of unexecuted manufacturer warranty.
      2. CLOSEOUT SUBMITTALS
         1. Maintenance Data: For interior glass door assemblies, to include in maintenance manuals.
      3. QUALITY ASSURANCE
         1. Installer Qualifications: Experienced Installer equipped and trained for installation of interior glass door assemblies required for this Project with record of successful completion of not less than five projects of similar scope.
      4. WARRANTY
         1. Special Manufacturer's Warranty: Standard form in which manufacturer agrees to repair or replace components of interior glass door assemblies that demonstrate deterioration or faulty operation due to defects in materials or workmanship under normal use within warranty period specified.

Warranty Period: [2] years date of Substantial Completion.

Specifier: For high frequency use openings, consider retaining "Continuing Maintenance Service" Paragraph below; consult dormakaba representative for recommendations.

* + - * 1. Continuing MaintenanceService: Provide proposal to Owner for maintenance of sliding interior glass door assemblies by competent employees of assembly Installer. Manufacturer's standard continuing maintenance agreement, commencing one year from date assembly is placed into service. Include the following:

Site Visits: Provide not less than one site visit per year to perform required tasks under this Service.

Verify attachment and support of interior glass door assemblies. Adjust support and alignment as required to bring assembly into manufacturer's recommended clearance tolerances and to provide smooth operation for door panels and hardware.

Continuing Maintenance Period: [10] years from date of substantial completion.

1. PRODUCTS
   * + 1. MANUFACTURERS

Specifier: Retain "Basis of Design Product" Paragraph for evaluating substitutions when required for project.

* + - * 1. Basis-of-Design Product: Provide a **MUTO series telescopic** interior sliding glass door assembly manufactured by **dormakaba USA Inc.**; email: specifications@dormakaba.com; website: [www.dormakaba.com](http://www.dormakaba.com).

Specifier: Retain option only when required for project.

Comparable products of other manufacturer acceptable only if performance criteria is equal to basis of design assembly and approved by Architect in accordance with Instructions to Bidders and Division 01 General Requirements.

* + - * 1. Source Limitations: Provide interior glass door assemblies through one source from a single manufacturer.
        2. Manual Sliding Door Operation:

Specifier: Retain single door, synchronized door pair subparagraph below or both as required for project. Consult a dormakaba representative for assistance in establishing maximum height and weight limitations for your particular application.

Single sliding doors.

Basis of Design: **dormakaba 2P MUTO premium XL 80 Telescopic (TEL)**

[Single] [and] [Paired] sliding doors with cushioned close.

Basis of Design: **dormakaba [2P] or [4P] MUTO Premium XL 80 Telescopic (TEL) Dormotion (DM)**

Specifier: Select one or more of the glass types from list below as required for project. If more than one glass type is required, retain the optional drawing designations and indicate locations of each type on Drawings. Consult a dormakaba representative for availability of additional glass panel options.

* + - 1. GLASS PANELS
         1. Glass Panels, General:

Provide glass panels that comply with 16 CFR 1201, Category II requirements for safety glazing. Permanently mark glazing with certification label of the SGCC.

Provide glass panels with exposed edges machine ground and flat polished.

* + - * 1. Fully Tempered Clear Float Glass [GL#\_\_]: ASTM C1048, Kind FT, Condition A, Type I, Class 1, Quality-Q3; thickness [8 mm] [13.5 mm].
        2. Fully Tempered Ultraclear (Low-Iron) Float Glass [GL#\_\_]: ASTM C 1048, Kind FT, Condition A, Type I, Class 1, Quality-Q3, with visible light transmission of not less than 91 percent; thickness [8 mm] [13.5 mm].
        3. Fully Tempered Tinted Float Glass [GL#\_\_]: ASTM C 1048, Kind FT, Condition A, Type I, Class 2, Quality-Q3; thickness [8 mm] [13.5 mm].
        4. Fully Tempered Laminated Glass [GL#\_\_]: ASTM C 1172, Two layers, Kind FT, Condition A, Type I, Class 1, Quality-Q3; thickness .236 inches (6 mm) minimum bonded to an interlayer of .060 inches (1.5mm) thickness minimum.
      1. SLIDING DOOR ASSEMBLIES

Specifier: Note that if space has 10 or more occupants, sliding doors must be equipped with a breakaway function not available with sliding door units. dormakaba sliding interior doors may be used in rooms with occupancy of less than 10, or in spaces with 10 or more occupants room equipped with a second means of egress. Verify requirements with local code authorities.

* + - * 1. Accessibility Standard: Comply with applicable provisions in ADA-ABA Accessibility Guidelines for Buildings and Facilities] [and] [ICC A117.1] [requirements of authorities having jurisdiction].
        2. Door Panels [and] [Sidelights]: Glass panels of material and thickness specified, of size indicated on Drawings.
        3. Sliding Door Track: Full-width extruded aluminum track with end caps, 2-3/4 inch (69 mm) high, designed for operation, size, and weight of glass panel door, with factory-finished track with concealed clamping roller carriers, integrated end-of-travel stops, and floor guide.

Finish: Anodic Finish: AAMA 611-12, Class II, 0.010 mm or thicker.

Color: [Clear] [Match No. 4 satin brushed stainless steel].

Specifier: Retain one or more track mounting methods below as required for project. Indicate requirements for blocking or secondary structural supports on Drawings.

* + - * 1. Track Mounting:

Ceiling surface-mounted (CE-S).

Ceiling recess-mounted. (CE-R)

Glass sidelite/transom -mounted.

Wall-mounted.

* + - * 1. Door Panel Carriers: Concealed trolley system designed for operation, size, and weight of glass panel door, with ball-bearing wheels, and with clamp-on attachment to glass panels requiring no glass penetration.

Specifier: Retain optional "Sidelights" Paragraph where required for Project.

* + - * 1. Sidelights: Captured by U channels integrated with door top track assembly. Bottom of sidelites held within [dry gasket glazing channel] [glazing U channels] [glazing clamps] as indicated on Drawings.

Specifier: Retain applicable door hardware components in "Door Hardware and Fittings" Paragraph. Show location of door hardware components on Drawings.

dormakaba offers a wide array of applicable door hardware options for interior glass door assemblies. Consult dormakaba representative for additional options, including electronic access controls.

* + - 1. DOOR HARDWARE AND FITTINGS
         1. Door Hardware, General: All-glass door hardware units in types, sizes, quantities, and mounting locations recommended by manufacturer for glass door types, sizes, and operation.

Specifier: A wide variety of dormakaba decorative operating trim designs are suitable for use with dormakaba swinging doors. Pulls and handles can be any number of lengths and attachment points. Some popular combinations are stated below for your convenience. Contact your dormakaba representative for additional assistance.

* + - * 1. Pulls and Handles: [One-sided] [Back-to-back].

Basis of Design: **dormakaba, Ladder Pull**.

Design: Vertical bar, [13-3/4 inch (350 mm), with 2 connecting bolts] [28-3/8 inch (720 mm) with 2 connecting bolts] [48-13/16 inch (1240 mm) with 3 connecting bolts] [69-1/4 inch (1760 mm) with 4 connecting bolts].

Design: [Specifier insert design] [As selected by Architect from manufacturer's standard or custom designs].

Specifier: Verify compliance of locking ladder pulls with project accessibility requirements, if applicable.

* + - * 1. Locking Ladder Pull: Pair of tubular lockable pull handles with thumb turns, Grade 316L stainless steel, accommodating key cylinder, with [floor-recessed deadbolt] [and] [head-mounted deadbolt].

Basis of Design: **dormakaba, Locking Ladder Pulls**.

Unit Length: [49 inch (1245 mm)], [60 inch (1524 mm)], [72 inch (1829 mm)], [84 inch (2134 mm)], [\_\_ inch (\_\_ mm)] <insert custom length>.

* + - * 1. Mechanical Locks and Latches:

Single-Door and Active-Leaf Locksets: Manufacturer’s standard patch dead-bolt locksets.

Specifier: dormakaba lockset below utilizes Euro profile key cylinder.\*Glass center lockset/housing with hook bolt engaging a matching strike housing or wall strike.

1. Basis of Design: **dormakaba, Junior Office Hook Lock**.

Bottom patch fitting dead bolt operated by key outside and thumb-turn inside and engaging a dust proof strike.

Inactive-Leaf Locksets: Manufacturer’s standard hook-bolt locksets.

Bottom patch fitting dead bolt engaging a dust proof strike operated by key outside and thumb turn inside.

Lock and Latch Housings: Patch mounting to glass panel door, with matching strike mounted in housing on adjacent glass panel.

Design: [Specifier insert design] [As indicated on Drawings] [As selected by Architect from manufacturer's standard designs].

Specifier: Select one of three "Lock Cylinder" paragraphs below.

* + - * 1. Lock Cylinders: Manufacturer's standard cylinders for lock housing type specified.
        2. Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver; BHMA A156.5, Grade 1, permanent removable cores; with face finish matching lockset[, keyed to master key system].
        3. Lock Cylinders: As specified in Section 08 71 00 "Door Hardware."
      1. FABRICATION
         1. General: Fabricate interior glass door assemblies in sizes, profiles, and configurations shown on Drawings.
         2. Provide holes and cutouts in glass to receive hardware, fittings, and accessories prior to tempering glass. Do not cut, drill, or make other alterations to glass after tempering.

Fully temper glass using horizontal (roller-hearth) process, and fabricate so that when glass is installed, roll-wave distortion is parallel with bottom edge of door or lite.

1. EXECUTION
   * + 1. EXAMINATION
          1. Examine door opening to determine if work is within all-glass entrance manufacturer's required tolerances and ready to receive work. Proceed with installation once conditions affecting installation and performance meet manufacturer's requirements.
       2. DOOR INSTALLATION
          1. General: Comply with all-glass entrance manufacturer's written installation instructions and approved shop drawings.
          2. Install interior glass door assemblies after other finishing operations have been completed. Coordinate installation of recesses housings with installation of adjacent finishes.
          3. Secure track to building structure using manufacturer's recommended fasteners suitable for application. Install floor guides and track stops.
          4. Attach glass panels to track carriers and adjust panels to level, plumb, and true to line, with uniform clearances as recommended in writing by manufacturer.
       3. ADJUSTING
          1. Adjust doors and hardware to produce smooth operation and uniform fit.
          2. Adjust sliding door installation for smooth operation.
          3. Replace damaged glass panels and accessories.
       4. CLEANING
          1. Clean glass panels in accordance with glass manufacturer's written instructions. Do not use cleaning agents or methods not approved by glass manufacturer.
          2. Clean exposed metal surfaces to factory new appearance.

END OF SECTION

**Additional Specifiers Notes**

**Substitution Reviews**: When reviewing substitution requests for other products for compliance with this specification, dormakaba recommends particular attention to the following issues:

Site lines and concealed operating mechanisms: Design details of dormakaba interior glass door assemblies are what give them the visual appeal that caused them to be selected as a basis of design.

Door Hardware Options: Our position as an international leader in architectural door hardware allows dormakaba to offer a complete array of coordinated hardware options and finishes for interior glass door assemblies .

**Coordination**: Make sure you coordinate the following:

Locations and operation of doors and sidelights including sliding travel and overlap

Elevations indicating details of special decorative glass elements

Door hardware locations and mounting details

Details of jamb and perimeter conditions, including track support

Details of opening finishes in relation to overhead track.