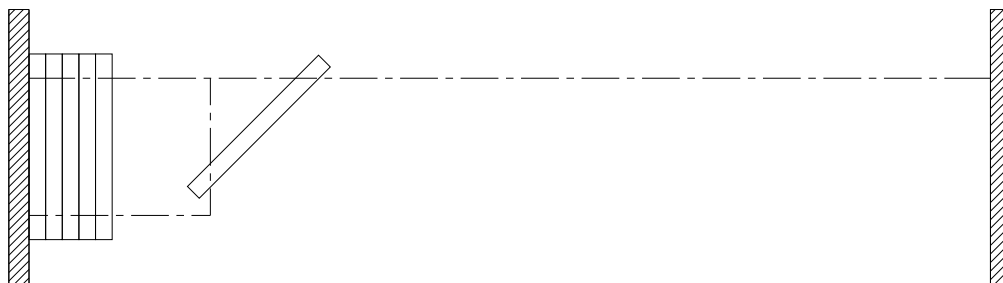# Technical Data Sheet
Crystal 241 – STC 54

Features & Options

Standard Features

- Manually-operated individual-panel glass movable partition.

- STC 54.

- 102 mm [4"] nominal thickness. 1230 mm [48 1/2"] maximum width.

- Clear-anodized steel-reinforced aluminum frame.

- Protective trims on the entire perimeter.

- Combination aluminum and vinyl tongue and groove vertical sound seals between panels.

- Final closure by telescopic jamb.

- Type MM-1 horizontal seals with fixed top sweeps:
  - Manually-operated, simultaneously-activated top and bottom retractable seals.
  - Bottom seals provide a floor clearance of 25 mm [1"].

- Clear-anodized 6063-T6 alloy aluminum track.

- Each panel supported by two carriers made up of two horizontally-aligned precision-ground hardened steel ball bearing wheels with nylon tires.

- 10 mm [3/8"] clear laminated tempered glass faces.

- Maximum height : 3110 mm [10'-2 1/2"].

Optional Features and Accessories

- Type MM-1.5 horizontal seals with fixed top sweeps:
  - Manually-operated, simultaneously-activated top and bottom retractable seals.
  - Bottom seals provide a floor clearance of 38 mm [1 1/2"].

- Powder-coated frame and/or track.

- Ultra-clear or painted glass.

- Arctic Snow interlayer (white, 23% light transmittance).

- Battery-powered electrically tilting blinds operated by remote control.

- Inset white marker boards / chalk boards / natural cork tack boards.

- Chalk tray.

- Acoustical or non-acoustical pocket door.

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Optional Features and Accessories (cont'd)

- Final closure by ADA-compliant pivot panel.

  Pivot panel options:
  - panic bar
  - panic bar with lockable lever
  - deadbolt lock

- ADA-compliant full-height hinged door with flush pulls and roller latch.

  Deadbolt lock available as an option.

- ADA-compliant u-shaped door with flush pulls and roller latch.

  Pass door options:
  - concealed automatic closer
  - panic bar (concealed automatic closer included)
  - panic bar with lockable lever (concealed automatic closer included)
  - self-luminous "Running Man" exit sign with green faceplate (standard outside USA, optional in USA)
  - photoluminescent "EXIT" sign with red faceplate (standard in USA, optional elsewhere)
  - photoluminescent "EXIT" sign with green faceplate (optional)
  - self-luminous "EXIT" sign with red faceplate (optional)
  - self-luminous "EXIT" sign with green faceplate (optional)
  - deadbolt lock (not available with an Exit sign)

Horizontal Seals

25 mm [1"]

260 mm [10 1/4"]

260 mm [10 1/4"]
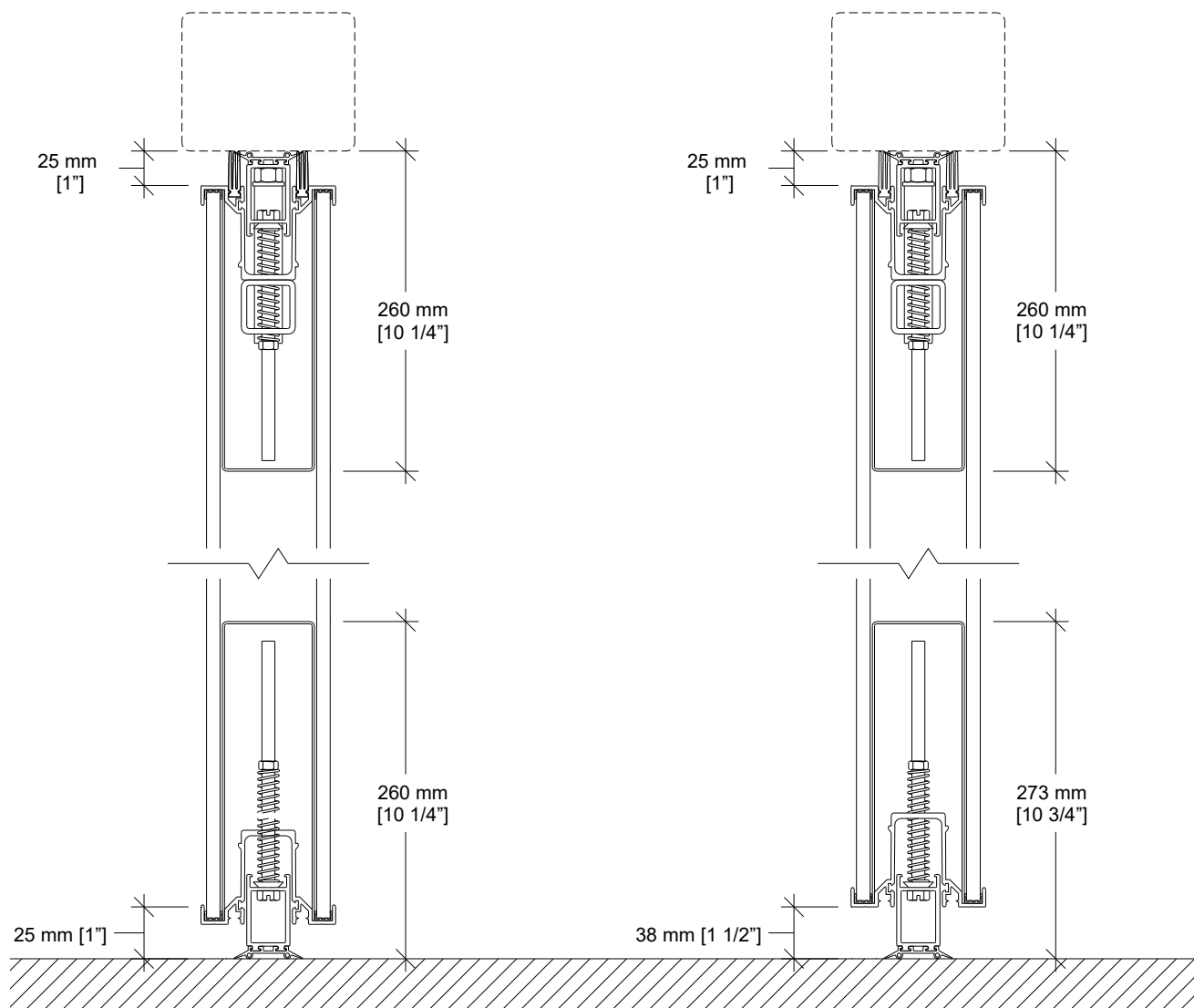
25 mm [1"]

Type MM-1 with fixed top sweeps
Floor clearance : 25 mm [1"]
Operating tolerances :
+0 mm / -15 mm [+0" / -5/8"]

25 mm [1"]

260 mm [10 1/4"]

273 mm [10 3/4"]

38 mm [1 1/2"]
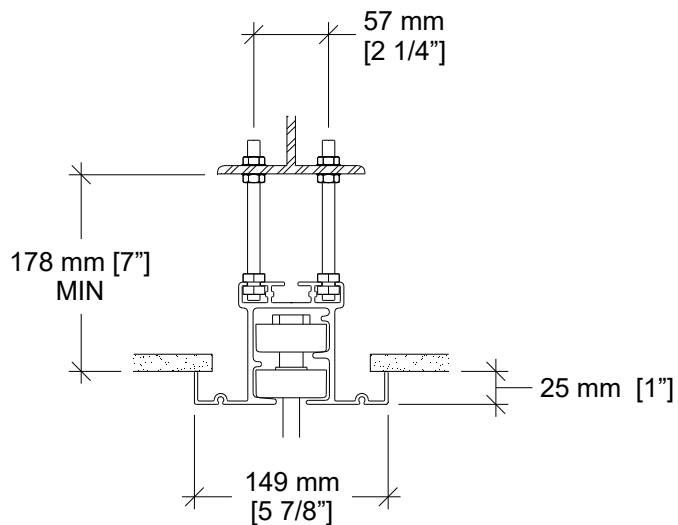
Type MM-1.5 with fixed top sweeps
Floor clearance : 38 mm [1 1/2"]
Operating tolerances :
+0 mm / -19 mm [+0" / -3/4"]
(+0 mm / -12 mm [+0" / -1/2"] if the
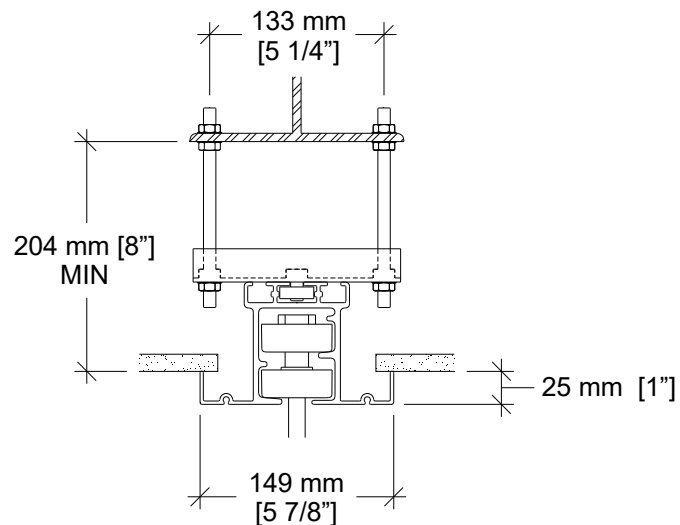partition has a pass through door)

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Vertical Section

57 mm
[2 1/4"]

Structural support by others

Acoustical plenum barrier by others
(refer to ASTM E557)

178 mm [7"]
MIN

Threaded rods by Moderco

#23-T aluminum track

25 mm [1"]

25 mm
[1"]

Retractable top seal

Fixed top sweeps

102 mm
[4"]

Aluminum frame

Finished floor to underside of ceiling

Fabrication height

Aluminum frame

Retractable bottom seal

Floor
clearance

Track Options

57 mm [2 1/4"]

178 mm [7"] MIN

25 mm [1"]

149 mm [5 7/8"]

133 mm [5 1/4"]

204 mm [8"] MIN

25 mm [1"]

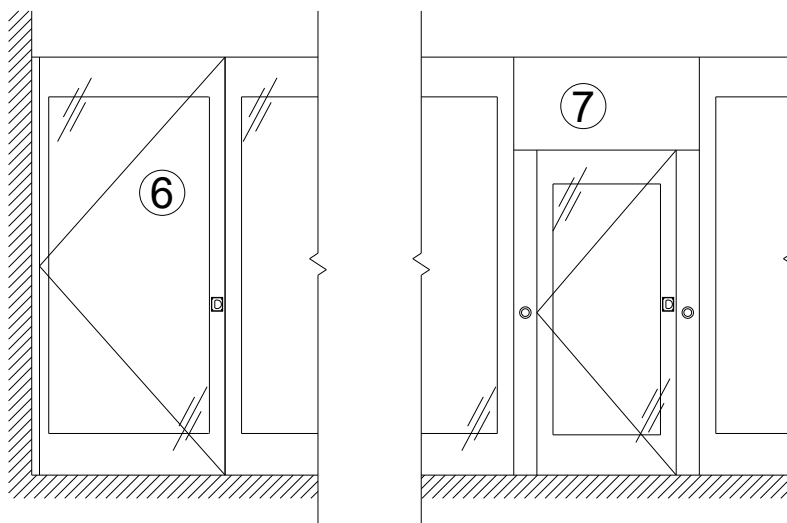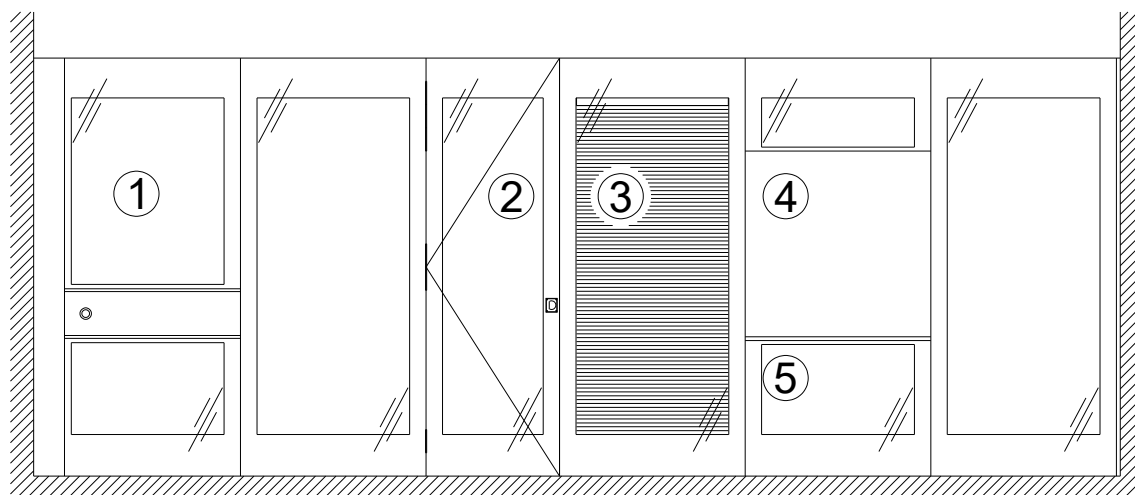**149 mm [5 7/8"]**

#23-T aluminum track

Standard for partitions up to a height of 4648 mm [15'-3"].

#23-T aluminum track with optional hanger bracket
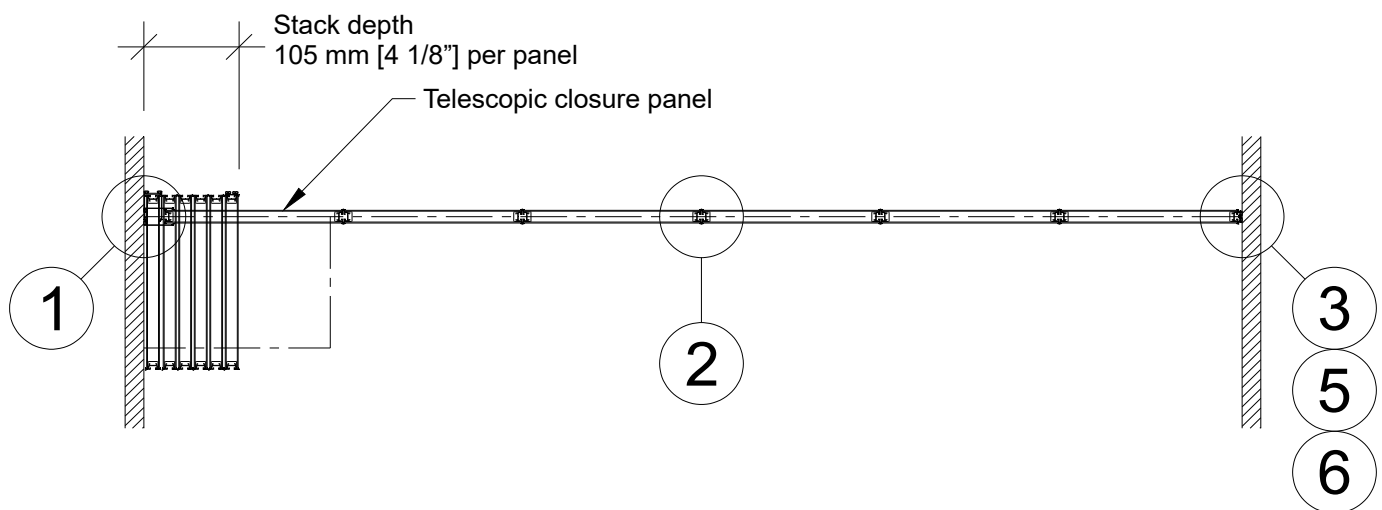
Hanger bracket required for installations where the topmost nuts cannot be used for adjustment.
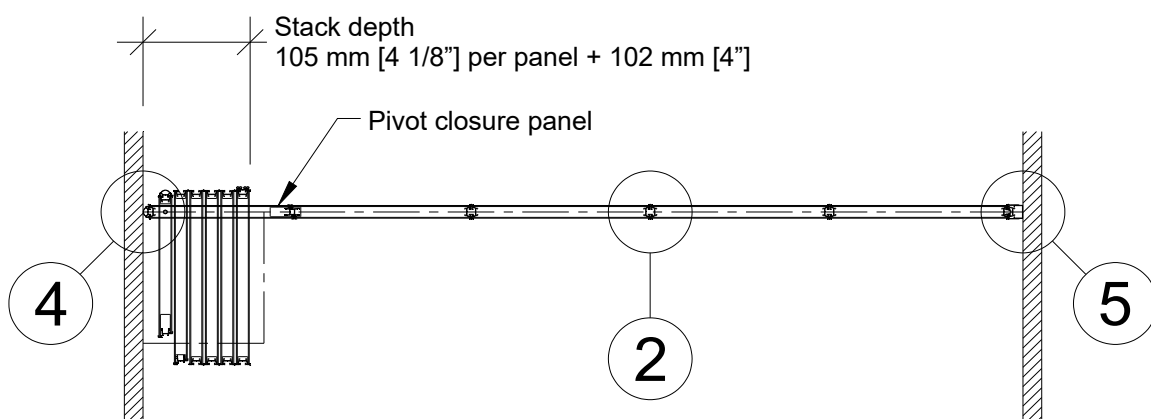
Elevation

1-   Telescopic closure panel

2-   Full-height hinged door (optional)

3-   Electrically tilting blinds operated by remote control (optional)

4-   Work surfaces (optional)

5-   Marker tray (optional)

6-   Pivot panel (optional)

7-   U-shaped pass door (optional)
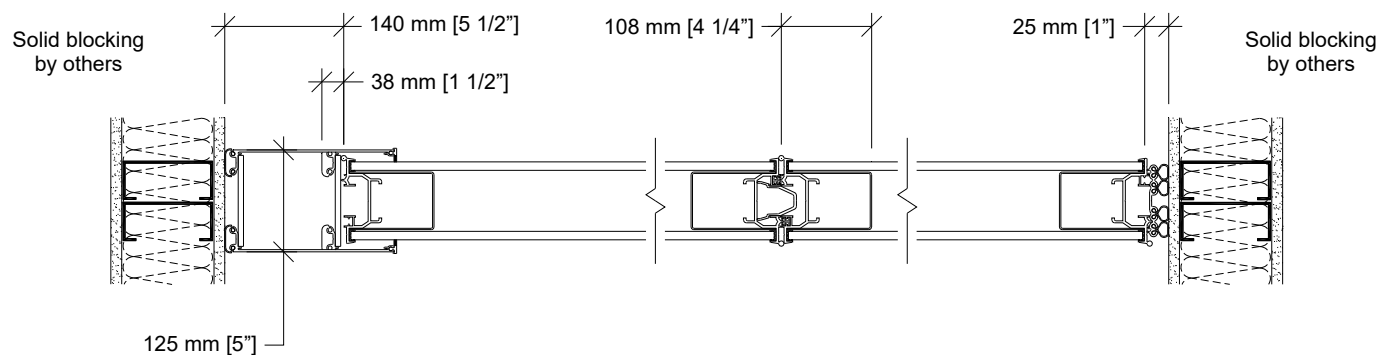
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Plan Views

Stack depth
105 mm [4 1/8"] per panel

Telescopic closure panel

(1) **(2)** **(3)** **(5)** **(6)**

Telescopic closure panel

Stack depth
105 mm [4 1/8"] per panel + 102 mm [4"]

Pivot closure panel

(4) **(2)** **(5)**

Pivot closure panel

Horizontal Sections

Solid blocking by others

140 mm [5 1/2"]

38 mm [1 1/2"]

108 mm [4 1/4"]

25 mm [1"]

Solid blocking by others

125 mm [5"]

(1) Telescopic closure

(2) Panel joint (panels type FA horizontal seals)

(3) Bulb seal

Solid blocking by others

55 mm [2 1/4"]

102 mm ± 22 mm [4" ± 7/8"]

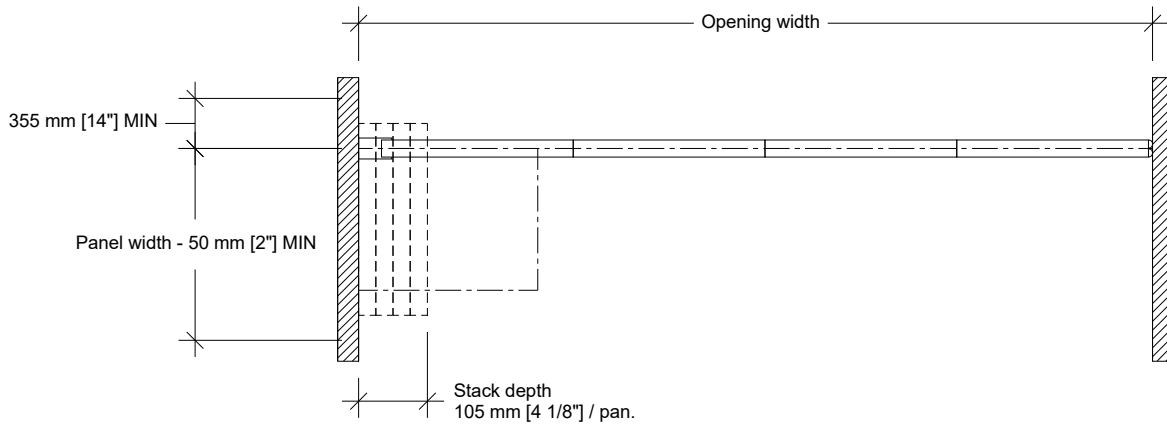**Solid blocking by others**
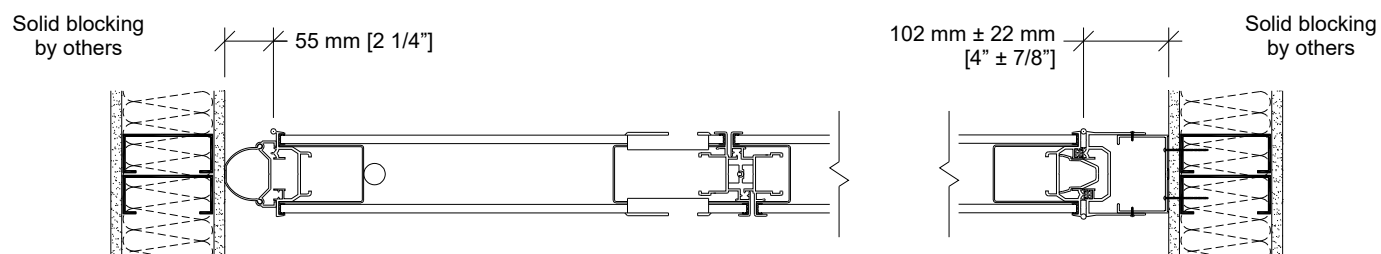
(4) Pivot closure panel with recessed pulls and roller latch (optional)

(5) Wall jamb (optional)
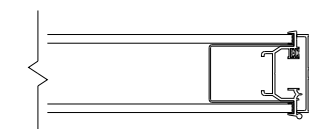
(6) End cap (available on panels with manual seals only)
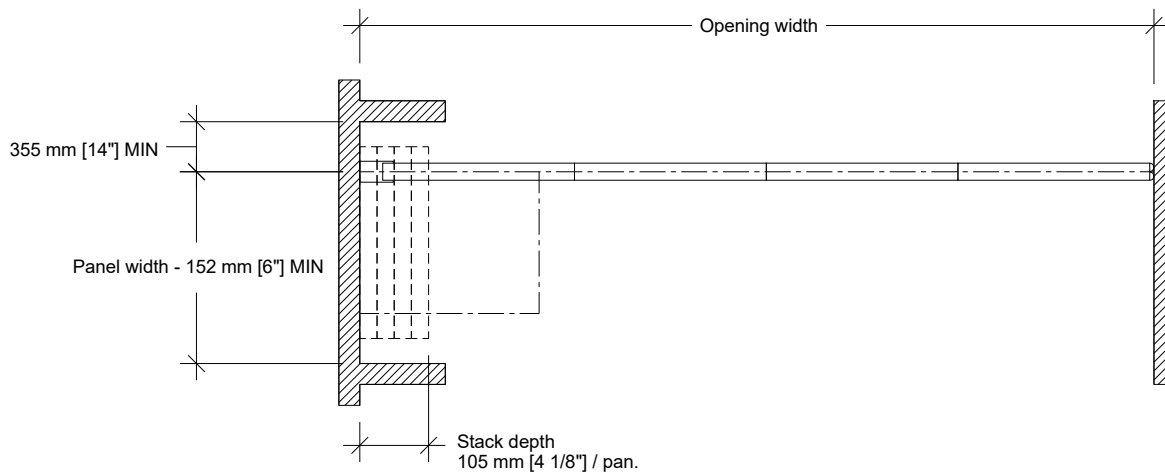
- 8 -

Typical Layouts

Opening width

355 mm [14"] MIN

Panel width - 50 mm [2"] MIN

Stack depth
105 mm [4 1/8"] / pan.

Wall to wall Side Stack – telescopic closure

Opening width

355 mm [14"] MIN

Panel width - 152 mm [6"] MIN

Stack depth
105 mm [4 1/8"] / pan. + 102 mm [4"]
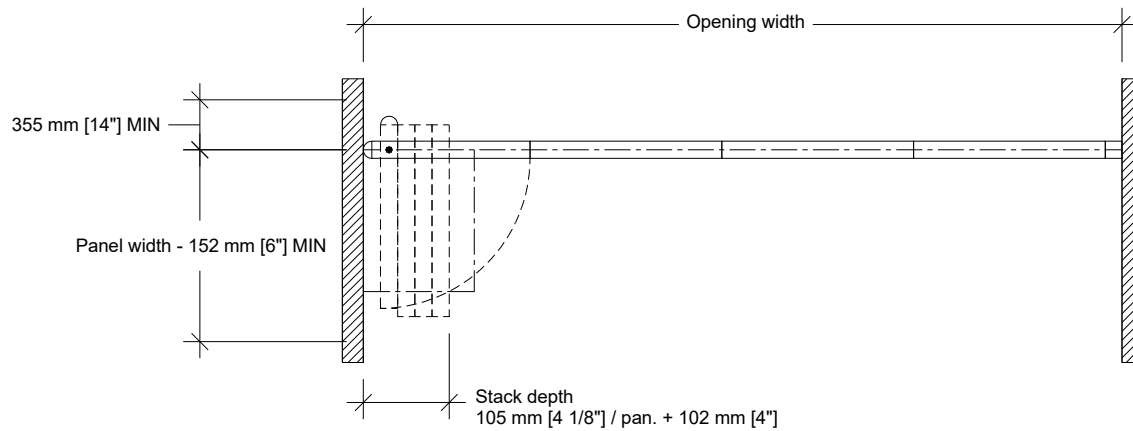
Wall to wall Side Stack – pivot closure

Opening width

355 mm [14"] MIN

Panel width - 152 mm [6"] MIN

Stack depth
105 mm [4 1/8"] / pan.

Pocket

Typical Layouts (cont'd)

Pocket depth
105 mm [4 1/8"] / pan. MIN

Opening width

355 mm [14"] MIN

Panel width - 152 mm [6"] MIN

Remote Stack

Opening width

420 mm [16 1/2"] MIN

Panel width + 89 mm [3 1/2"] MIN

Pocket depth
105 mm [4 1/8"] / pan. + 204 mm [8"] MIN
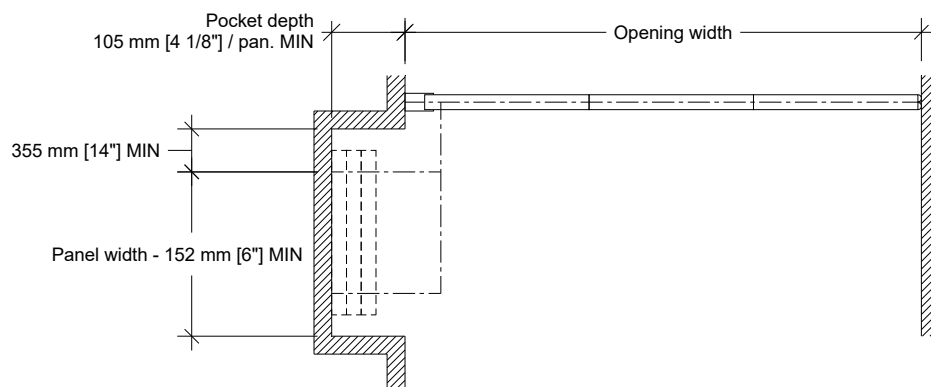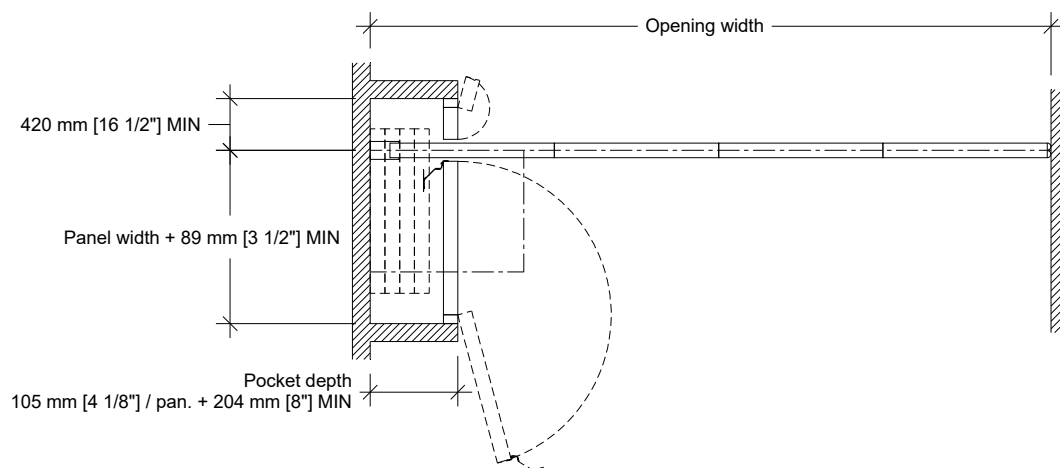
Pocket and PN-83 non-acoustical pocket door
(partition seals to back of pocket)

Pocket depth
105 mm [4 1/8"] / pan. + 204 mm [8"] MIN

Opening width

420 mm [16 1/2"] MIN

Panel width + 89 mm [3 1/2"] MIN
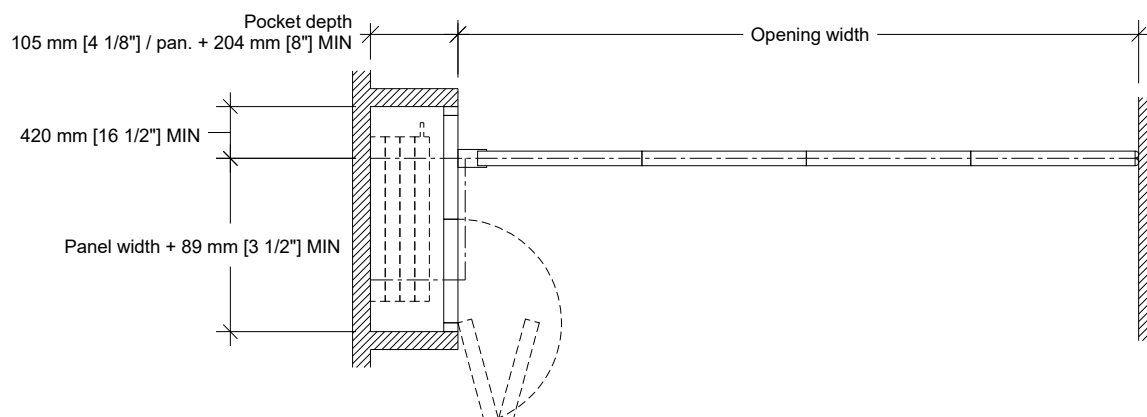
Pocket and PA-82B acoustical pocket door
(partition seals to face of pocket door)