Series 5550/5551 and Series 5630/5631
Acoustic Glass Walling

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GLASS OPERABLE WALLS

Product: Series 5000 SGL, DGL, SDGL, SDGLV Acoustic Glass Wall

Series:
- 5550-SGL
- 5550-DGL
- 5550-SDGL-IGU
- 5550-SDGLV-IGU
- 5630-SGL
- 5630-DGL
- 5630-SDGL-IGU
- 5630-SDGLV-IGU
- 5551-SGL
- 5551-DGL
- 5551-SDGL-IGU
- 5551-SDGLV-IGU
- 5631-SGL
- 5631-DGL
- 5631-SDGL-IGU
- 5631-SDGLV-IGU

Series 5000 Glass Wall utilises our S/5000 operable wall perimeter framing and a suite of purpose-designed, extruded aluminium glazing sections to produce a system of glass doors and panels with the virtues of a proven operable wall system and the vision and acoustics of glass. A wide range of glazing options are available including single glazing, double glazed units, sealed double glazed units - IGU and sealed double glazed units with enclosed Venetians-IGU. Panels can be fully or partially glazed with options for square, bevel or L-shaped glazing beads. (All Type 1, bottom mechanical seal panels require a 350mm high kick rail).

Description:
- Individual Omni Directional Panels or Hinged Centre Tracking Panels
- Manually Operated
- Top Supported
- No Bottom Guides
- SGL = Single Glazing
- DGL = Double Glazing / SDGL = Sealed Double Glazing / SDGLV = Sealed Double Glazed with Venetian

Recommended Maximum Dimensions – For Internal Applications ONLY

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*NB For all External Applications, panel heights and widths are to be determined by the applicable design wind pressures.

- All glass and glazing must comply with AS1288 section 5.2/5.4, table 5.1
- For external use, you must also consider the design wind pressure per AS1170.2 for compliance to AS1288-2006, AS1644 & AS4055.
Key Market Segments

- Apartments
- Childminding Centres, Kindergartens
- Restaurants, food chains, hotels
- Hospital/medical - Administration, meeting, foyers, canteens
- Commercial and Industrial - Administration, meeting, foyers, canteens - Equipment viewing stations

Contact Hufcor’s Technical Services Team for any enquiries you may have outside our current scope, as this is an ongoing development, we may be able to resolve your situation.

"Standard" Product Features and Benefits
Look for these features when comparing similar products.

1. Feature: Top supported
   Benefit: No need for floor tracks that gather dirt and dust and are easily damaged.

2. Feature: Hufcor Type 3 omni-directional tracking system
   Benefit: Proven performance in thousands of movable wall installation around the world.
   Enables panels to negotiate turns and be used in alternate locations.

3. Feature: Glass fixed with snap on beads to all four sides.
   Benefit: Provides variety of choice for single or double glazing and also for the selection of various glazing beads options (square, bevel, tall or “L” shape beads)

4. Feature: Hufcor’s vertical aluminium extrusions incorporate a tongue with two vinyl gaskets that nest into the vertical recess in the edge of the adjoining panel creating a tongue and groove joint
   Benefit: Creates positive interlocking between panels providing stability, ease of panel alignment, acoustic and draft seals

5. Feature: Full perimeter aluminium frame bolts together with steel corner brackets 4 times bolted
   Benefit: Creates a strong durable panel

6. Feature: Available with mechanically operated bottom seals
   Benefit: Provides panel stability when extended and friction free travel when retracted

7. Feature: Option for sealed, double glazed units with enclosed venetian blinds
   Benefit: Provides light, privacy, thermal and acoustic control

8. Feature: Perimeter frame is Hufcor Series 5000 operable wall frame
   Benefit: Glass Wall panel can be included as a feature in a standard operable wall installation
SPECIFICATION
HUFCOR SERIES 5550 MOVABLE ACOUSTIC GLASS WALL

Product:
Movable, acoustic, glass operable walling as shown on the plans shall be (select one):
1. HUFCOR Series 5550-SGL (Single Glazed)
2. HUFCOR Series 5550-DGL (Double Glazed)
3. HUFCOR Series 5550-SDGL (Sealed Double Glazed-IGU)
4. HUFCOR Series 5550-SDGLV (Sealed Double Glazed Units with Enclosed Venetians-IGU)
manufactured by HUFCOR Pty Ltd, supplied and installed by authorised installers.

Operation:
Panels shall be top supported, manually operated and hinged in groups of two. Each panel shall be fitted with a single, 4-wheel, nylon tyred, ball bearing carrier. Panels shall centre-stack at either end of the opening.

Tracking System:
The tracking system shall be HUFCOR’s extruded aluminium, centre-tracking Type 5 system to the profile shown on the working drawings.

Panel Construction:
The panels shall be 75mm thick, full perimeter, extruded, aluminium frame with interlocking corner construction reinforced by means of concealed, steel corner brackets 4 times bolted. Glazing beads and gaskets shall be snap-on, square, L shaped or angled beads to suit the glass configuration and thickness selected.

The exposed aluminium shall be (select one):
1. Powdercoated to selected colour (standard).
2. Satin natural anodised (option)
3. Colour anodised to selected colour (option).

Available Accessories/Options (select required option):
1. Timber Veneer sub-frames and timber glazing beads
2. Mid Rails (specify required height and finish)

Seals:
a) The leading, vertical edge of each panel shall incorporate a tongue with two vinyl gaskets to nest into the vertical recess in the edge of the adjoining panel creating a positive, interlocking joint that provides panel stability, ease of panel alignment and sound seal.
b) Top and bottom horizontal seals shall be continuous contact, multi-layer, vinyl sweep seals. The top seals maintain contact with the track and the bottom seals maintain contact with the floor or other surface along the path of the movable wall

Wall Closure:
Final partition closure to be by a full height, hinged panel at one end of the opening that hinges from a fixed, two piece, extruded aluminium, wall jamb. The hinged panel shall be fitted with lever door furniture.

Available Accessories/Options for Hinged Panel Locks (a). Thumb turn (b). Keyed

Jams:
The end of the opening opposite the wall closure shall be fitted with (select one):
1. Fixed Adjustable Jamb- a permanently attached, two piece, extruded aluminium jamb with projection from the wall adjustable in the range of 50mm to 70mm and to be capable of compensating for an out of plum condition of + or – 10mm.
2. Bulb Seal- an ovoid, hollow, extruded vinyl seal. The seal shall protrude 30mm beyond the end of the panel and shall be capable of compensating for minor variations in the wall surface that it abuts.

Glazing:
The panel frames shall be factory glazed or glazed on site as (select one):
1. single glazed units (Series 5550-SGL).
2. double glazed units (Series 5550-DGL).
3. sealed, double glazed units (Series 5550-SDGL)
4. sealed, double glazed units incorporating enclosed venetians (Series 5550-SDGLV)
The glazing is to be in accordance with Australian Standard AS 1288-2006. As a minimum, the glass must be designed to withstand human impact and where applicable, wind loadings.

(Acoustic performance of glass is dependent on thicknesses and configurations.

Warranty:
The movable glass wall shall be fully guaranteed by the manufacturer against defects in workmanship or materials for a period of 12 months from date of installation. The manufacturers guarantee shall not exceed that of the glass supplier if such supplier’s guarantee is less than that provided above.

Work by Others:
Floors shall be level in the path of the partitioning to a tolerance not exceeding + or – 3mm. The general contractor shall be responsible for rectification of floors outside this tolerance. Jams shall be plumb, the maximum variation of opening width shall be + or – 10mm.
**SPECIFICATION**

**HUFCOR SERIES 5551 MOVABLE ACOUSTIC GLASS WALL**

**Product:**
Movable, acoustic, glass operable walling as shown on the plans shall be (select one):
1. HUFCOR Series 5551-SGL (Single Glazed)
2. HUFCOR Series 5551-DGL (Double Glazed)
3. HUFCOR Series 5551-SDGL (Sealed Double Glazed-IGU)
4. HUFCOR Series 5551-SDGLV (Sealed Double Glazed Units with Enclosed Venetians-IGU) manufactured by HUFCOR Pty Ltd, supplied and installed by authorised installers.

**Operation:**
Panels shall be top supported, manually operated and hinged in groups of two. Each panel shall be fitted with a single, 4-wheel, nylon tyred, ball bearing carrier. Panels shall centre-stack at either end of the opening.

**Tracking System:**
The tracking system shall be HUFCOR’s extruded aluminium, centre-tracking Type 5 system to the profile shown on the working drawings.

**Panel Construction:**
The panels shall be 75mm thick, full perimeter, extruded, aluminium frame with interlocking corner construction reinforced by means of concealed, steel corner brackets 4 times bolted. Glazing beads and gaskets shall be snap-on, square, L shaped or angled beads to suit the glass configuration and thickness selected. The exposed aluminium shall be (select one):
1. Powdercoated to selected colour (standard).
2. Satin natural anodised (option)
3. Colour anodised to selected colour (option).

**Available Accessories/Options** (select required option):
1. Timber Veneer sub-frames and timber glazing beads
2. Mid Rails (specify required height and finish)

**Seals:**

a) The leading, vertical edge of each panel shall incorporate a tongue with two vinyl gaskets to nest into the vertical recess in the edge of the adjoining panel creating a positive, interlocking joint that provides panel stability, ease of panel alignment and sound seal.

b) Top horizontal seals shall be continuous contact, multi-layer, vinyl sweep seals.

c) Bottom horizontal seals shall incorporate an extruded aluminium, box-section, mechanical seal manually operated by a handle inserted in the panel stile. Turning the handle through 1700 shall simultaneously extend or retract the seal through an overthrow cam mechanism, which shall firmly hold the seal in the retracted or extended mode.

**Wall Closure:**
Final partition closure to be by a full height, hinged panel at one end of the opening that hinges from a fixed, two piece, extruded aluminium, wall jamb. The hinged panel shall be fitted with lever door furniture.

**Available Accessories/Options for Hinged Panel Locks (a).**
(b). Keyed

**Jamb:**
The end of the opening opposite the wall closure shall be fitted with (select one):
1. Fixed Adjustable Jamb- a permanently attached, two piece, extruded aluminium jamb with projection from the wall adjustable in the range of 50mm to 70mm and to be capable of compensating for an out of plumb condition of + or – 10mm.
2. Bulb Seal- an ovoid, hollow, extruded vinyl seal. The seal shall protrude 30mm beyond the end of the panel and shall be capable of compensating for minor variations in the wall surface that it abuts.

**Glazing:**
The panel frames shall be factory glazed or glazed on site as (select one):
1. single glazed units (Series 5551-SGL).
2. double glazed units (Series 5551-DGL).
3. sealed, double glazed units (Series 5551-SDGL)
4. sealed, double glazed units incorporating enclosed venetians (Series 5551-SDGLV)

The glazing is to be in accordance with Australian Standard AS 1288-2006. As a minimum, the glass must be designed to withstand human impact and where applicable, wind loadings.

(Following clause required if subjected to wind loadings).
The system is to be designed for the wind pressures to comply with AS1170.2 Terrain Category __ (insert Design Wind Pressure (kPa) with the serviceability deflection limit.

L/150 for Bi-Folds
L/180 for Residential
L/250 for Commercial

**Acoustic Guarantee:**
Hufcor shall guarantee in writing that the panel frame and seal system supplied shall be of like construction to the panels tested in an independent Australian Testing Laboratory, in accordance with

Testing Procedure: AS1191- 1985
Report Number: 1211/635/KC

Weighted Sound Reduction \( R_w(C;C_o) = 44(-5;-11) \text{dB} \)

Acoustic performance of glass is dependent on thicknesses and configurations.

**Warranty:**
The movable glass wall shall be fully guaranteed by the manufacturer against defects in workmanship or materials for a period of 12 months from date of installation. The manufacturers guarantee shall not exceed that of the glass supplier if such supplier’s guarantee is less than that provided above.

**Work by Others:**
Floors shall be level in the path of the partitioning to a tolerance not exceeding + or – 3mm. The general contractor shall be responsible for rectification of floors outside this tolerance. Jamb shall be plumb, the maximum variation of opening width shall be + or – 10mm.
NOTE:
These are just a few of the stacking options. Please contact Hufcor's technical services team if your design calls for alternative stacking configurations.

Closure Type: HINGED PANEL OR DOOR
Stock Type: CENTRE-STACK

Closure Type: STORAGE AREA DOOR
Stock Type: CENTRE-STACK

Closure Type: STD 5/5000 C/W DOOR PANEL CONCEALED IN STORAGE AREA
Stock Type: CENTRE-STACK

Closure Type: STD 5/5000 EXP JAMB PANEL CONCEALED IN STORAGE AREA
Stock Type: CENTRE-STACK
**SPECIFICATION**

**HUFCOR SERIES 5630 MOVABLE ACOUSTIC GLASS WALL**

**Product:**
Movable, acoustic, glass operable walling as shown on the plans shall be **(select one):**
1. HUFCOR Series 5630-SGL (Single Glazed)
2. HUFCOR Series 5630-DGL (Double Glazed)
3. HUFCOR Series 5630-SDGL (Sealed Double Glazed-IGU)
4. HUFCOR Series 5630-SDGLV (Sealed Double Glazed Units with Enclosed Venetians-IGU)

**Operation:**
Panels shall be top supported by two omni-directional carriers from Hufcor’s Type 3 tracking system, manually moved into position to provide a complete sound retardant barrier.
Panels shall be stored in a side-tracking configuration.

**Tracking System:**
The tracking system shall be HUFCOR’s side tracking system Type 3 extruded aluminium to the profile shown on the working drawings.

**Panel Construction:**
The panels shall be 75mm thick, full perimeter, extruded, aluminium frame with interlocking corner construction reinforced by means of concealed, steel corner brackets 4 times bolted. Glazing beads and gaskets shall be snap-on, square, L shaped or angled beads to suit the glass configuration and thickness selected.
The exposed aluminium shall be **(select one):**
1. Powdercoated to selected colour (standard)
2. Satin natural anodised (option) or
3. Colour anodised to selected colour (option).

**Available Accessories/Options** **(select required option):**
1. Timber Veneer sub-frames and timber glazing beads
2. Mid Rails **(specify required height and finish)**

**Seals:**
- **a)** The leading, vertical edge of each panel shall incorporate a tongue with two vinyl gaskets to nest into the vertical recess in the edge of the adjoining panel creating a positive, interlocking joint that provides panel stability, ease of panel alignment and sound seal.
- **b)** Top and bottom horizontal seals shall be continuous contact, multi-layer, vinyl sweep seals. The top seals maintain contact with the track and the bottom seals maintain contact with the floor or other surface along the path of the movable wall.

**Wall Closure:**
Final partition closure to be by a full height, hinged panel at one end of the opening that hinges from a fixed, two piece, extruded aluminium, wall jamb.
The hinged panel shall be fitted with lever door furniture.

**Available Accessories/Options for Hinged Panel**

**Locks**
- **(a)** Thumb turn
- **(b)** Keyed

**Jambs:**
The end of the opening opposite the wall closure shall be fitted with **(select one):**
1. Fixed Adjustable Jamb - a permanently attached, two piece, extruded aluminium jamb with projection from the wall adjustable in the range of 50mm to 70mm and to be capable of compensating for an out of plum condition of + or – 10mm.
2. Bulb Seal- an ovoid, hollow, extruded vinyl seal. The seal shall protrude 30mm beyond the end of the panel and shall be capable of compensating for minor variations in the wall surface that it abuts.

**Glazing:**
The panel frames shall be factory glazed or glazed on site as **(select one):**
1. single glazed units (Series 5630-SGL).
2. double glazed units (Series 5630-DGL).
3. sealed, double glazed units (Series 5630-SDGL)
4. sealed, double glazed units incorporating enclosed venetians (Series 5630-SDGLV)
The glazing is to be in accordance with Australian Standard AS 1288-2006. As a minimum, the glass must be designed to withstand human impact and where applicable, wind loadings.

**Wind Pressure (kPa) with the serviceability deflection limit**
- L/150 for Bi-Fold
- L/180 for Residential
- L/250 for Commercial

**Acoustic Guarantee:**
Hucer shall guarantee in writing that the panel frame and seal system supplied shall be of like construction to the panels tested in an independent Australian Testing Laboratory, in accordance with Testing Procedure: AS1191- 1985
Report Number: 1211/635/KC
Weighted Sound Reduction $R_w(C, C_w) = 44(-5; -11)$dB
*Acoustic performance of glass is dependent on thicknesses and configurations.*

**Warranty:**
The movable glass wall shall be fully guaranteed by the manufacturer against defects in workmanship or materials for a period of 12 months from date of installation. The manufacturers guarantee shall not exceed that of the glass supplier if such supplier’s guarantee is less than that provided above.

**Work by Others:**
Floors shall be level in the path of the partitioning to a tolerance not exceeding + or – 3mm. The general contractor shall be responsible for rectification of floors outside this tolerance. Jambs shall be plumb, the maximum variation of opening width shall be + or – 10mm.
SPECIFICATION
HUFCOR SERIES 5631 MOVABLE ACOUSTIC GLASS WALL

Product:
Movable, acoustic, glass operable walling as shown on the plans shall be (select one):
1. HUFCOR Series 5631-SGL (Single Glazed)
2. HUFCOR Series 5631-DGL (Double Glazed-IGU)
3. HUFCOR Series 5631-SDGL (Sealed Double Glazed)
4. HUFCOR Series 5631-SDGLV (Sealed Double Glazed Units with Enclosed Venetians-IGU)
manufactured by HUFCOR Pty Ltd, supplied and installed by authorised installers.

Operation:
Panels shall be top supported by two omni-directional carriers from Hufcor’s Type 3 tracking system, manually moved into position to provide a complete sound retardant barrier.
Panels shall be stored in a side-tracking configuration.

Tracking System:
The tracking system shall be HUFCOR’s side tracking system Type 3 extruded aluminium to the profile shown on the working drawings.

Panel Construction:
The panels shall be 75mm thick, full perimeter, extruded, aluminium frame with interlocking corner construction reinforced by means of concealed, steel corner brackets 4 times bolted. Glazing beads and gaskets shall be snap-on, square, L shaped or angled beads to suit the glass configuration and thickness selected.
The exposed aluminium shall be (select one):
1. Powdercoated to selected colour (standard).
2. Satin natural anodised (option) or
3. Colour anodised to selected colour (option).

Available Accessories/Options (select required option):
1. Timber Veneer sub-frames and timber glazing beads
2. Mid Rails (specify required height and finish)

Seals:
a) The leading, vertical edge of each panel shall incorporate a tongue with two vinyl gaskets to nest into the vertical recess in the edge of the adjoining panel creating a positive, interlocking joint that provides panel stability, ease of panel alignment and sound seal.
b) Top horizontal seals shall be continuous contact, multi-layer, vinyl sweep seals.
c) Bottom horizontal seals shall incorporate an extruded aluminium, box-section, mechanical seal manually operated by a handle inserted in the panel stile.
Turning the handle through 1700 shall simultaneously extend or retract the seal through an overthrow cam mechanism, which shall firmly hold the seal in the retracted or extended mode.

Wall Closure:
Final partition closure to be by a full height, hinged panel at one end of the opening that hinges from a fixed, two piece, extruded aluminium, wall jamb.
The hinged panel shall be fitted with lever door furniture.
Available Accessories/Options for Hinged Panel Locks (a) Thumb turn
(b) Keyed

Jams:
The end of the opening opposite the wall closure shall be fitted with (select one):
1. Fixed Adjustable Jamb - a permanently attached, two piece, extruded aluminium jamb with projection from the wall adjustable in the range of 50mm to 70mm and to be capable of compensating for an out of plum condition of + or – 10mm.
2. Bulb Seal- an ovoid, hollow, extruded vinyl seal. The seal shall protrude 30mm beyond the end of the panel and shall be capable of compensating for minor variations in the wall surface that it abuts.

Glazing:
The panel frames shall be factory glazed or glazed on site as (select one):
1. single glazed units (Series 5631-SGL).
2. double glazed units (Series 5631-DGL).
3. sealed, double glazed units (Series 5631-SDGL).
4. sealed, double glazed units incorporating enclosed venetians (Series 5631-SDGLV)
The glazing is to be in accordance with Australian Standard AS 1288-2006. As a minimum, the glass must be designed to withstand human impact and where applicable, wind loadings.

(Wind Pressure (kPa) with the serviceability deflection limit
L/150 for Bi Folds
L/180 for Residential
L/250 for Commercial

Acoustic Guarantee:
Hufcor shall guarantee in writing that the panel frame and seal system supplied shall be of like construction to the panels tested in an independent Australian Testing Laboratory, in accordance with
Testing Procedure: AS1191-1985
Report Number: 1211/635/KC
Weighted Sound Reduction Rw(C;Ctr) = 44(-5,-11)dB
Acoustic performance of glass is dependent on thickness and configurations.

Warranty:
The movable glass wall shall be fully guaranteed by the manufacturer against defects in workmanship or materials for a period of 12 months from date of installation. The manufacturers guarantee shall not exceed that of the glass supplier if such supplier’s guarantee is less than that provided above.

Work by Others:
Floors shall be level in the path of the partitioning to a tolerance not exceeding + or – 3mm. The general contractor shall be responsible for rectification of floors outside this tolerance. Jambs shall be plumb, the maximum variation of opening width shall be + or – 10mm.
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May 2005
EXAMPLES OF STACKING CONFIGURATIONS

NOTE:

THERE ARE ALSO A FEW OPTIONS FOR STACKING CONFIGURATIONS. THE HUFCOR TYPE 5 TRACKING SYSTEM ALLOWS PANELS TO MOVE SMOOTHLY AROUND 180° AND 90° INTERSECTIONS TO FORM VIRTUALLY HIDDEN ARRANGEMENTS AND ENSURE MAXIMUM STORAGE OF PANELS.