CONTENTS

1. TECHNICAL DESCRIPTION
2. TYPOLOGY
3. VERTICAL SECTION
4. HORIZONTAL SECTION
5. STANDARD TRACK
6. RECESSED TRACK
7. RECESSED DRAINAGE TRACK
8. 1 1/4 TRACK
9. 1 1/4 DRAINAGE TRACK
10. HEADER TRACK
11. SIDE FRAME
12. PANEL INTERLOCK & TRUE DIVIDER
13. CENTER MEETING STILE
14. POCKET INTERLOCK
15. CORNER POST
16. SCREENS & KICKPLATE
The Panda S.83 Thermally Broken Multi-Sliding Door System is the perfect solution for an overall eco-friendly building envelope. The S. 83 provides superior thermal performance for a wide array of projects that require a large opening slider. With multiple features in design, including specially designed gaskets and iso-bar technology this system can achieve a U-value of 0.213. The door system was developed for external use in custom luxury homes, high rise condominiums, hotels, restaurants, and various other project types in both residential and commercial applications.

Profiles:
The durable profiles are made up of 6063-T5 Extruded Aluminum Thermally broken using a high quality polyamide iso-bar. The panel frame is a slim $3\frac{3}{4}$" wide and 2" thick which provides a maximum glass to frame ratio for a large visible glass area.

Tracks:
The S. 83 door system is designed to meet maximum thermal values using the standard track option provided for this door which is ADA compliant. Several alternative track options are available including all of the recessed Lift & Slide door system tracks providing a seamless transition from interior to exterior. The surface mount Lift & Slide track may also be used for a minimal pathway obstruction. These alternative tracks are options for aesthetic reasons only thus they will not perform in inclement weather as well as the standard track specially designed for the S. 83.

Accessories:
Panda has put every effort into choosing the best materials available in the design of the S. 83. Quality EPDM rubber gaskets and high tensile felt brushes are used to provide superior performance in virtually any climate. Optional stainless steel screws and bolts are available for coastal regions where excessive corrosion is a concern. The standard finish is Powder coat which has been salt spray tested and custom color matched to any color the client desires. Other finishes available are Anodizing and Kynar.

Glazing:
Standard glazing for this system is Clear LoE Tempered 1 3/8" insulated glass. A minimum of 3/4" single pane glass to a maximum 1 ½" hurricane rated insulated glass may be used. A unique option in this system is 1 ½" insulated glass with automated blinds between the glass. Other options include frosted or tinted glass, argon or krypton fill, and SDLs or TDLs may also be integrated for a custom look.

Sizes:
The S. 83 series door panels are custom made to order to the exact size needed for the opening. Panels may be made to a maximum in excess of 70 square feet. Smaller sized panels to be used in window or pass through configurations are also available. Maximum panel height for the door system is 12 feet and the maximum width is 6 feet.

Weight:
Each panel weighs approximately 7 to 8 pounds per square foot.
TRACK WIDTHS (APPROX)
2\(\frac{1}{2}\)" PER TRACK + 1\(\frac{1}{4}\)" PER RAMP

STANDARD GLASS \(\frac{1}{4}\times\frac{3}{8}\times\frac{1}{4}\)
CLEAR LOW-E TEMPERED IG
GLASS THICKNESS
MIN. \(\frac{3}{8}\)" - MAX. 1\(\frac{1}{2}\)"

GLASS
EPDM GLAZING
GASKETS
BOTTOM RAIL
POLYAMIDE
ADJUSTABLE WHEELS
FELT BRUSHES
BOTTOM TRACK
OPTIONAL RAMP

NOT USED

STANDARD TRACK
TB 87 LIFT & SLIDE
5
MINIMUM TRENCH DEPTH = 2 1/2" - F.F. THICKNESS
FOR MIN. DEPTH INSTALLATION SUB-FLOOR MUST BE SMOOTH & LEVEL

RECOMMENDED TRENCH WIDTHS:
1 TRACK 4"
2 TRACK 6 1/2"
3 TRACK 9"
4 TRACK 11 1/2"

STANDARD GLASS 1/2" X 3/8" X 3/8"
CLEAR LOW-E TEMPERED IG
GLASS THICKNESS
MIN. 1/4" - MAX. 1 1/2"

1 1/4" RECESSED TRACK
TB 87 LIFT & SLIDE 6
MINIMUM TRENCH DEPTH = 2\(\frac{1}{2}\)" - F.F. THICKNESS
FOR MIN. DEPTH INSTALLATION SUB-FLOOR MUST BE SMOOTH & LEVEL

RECOMMENDED TRENCH WIDTHS:
1 TRACK 4"
2 TRACK 6-\(\frac{1}{2}\)"
3 TRACK 9"
4 TRACK 11-\(\frac{1}{2}\)"

STANDARD GLASS \(\frac{1}{3}\) X \(\frac{3}{8}\) X \(\frac{1}{4}\)
CLEAR LOW-E TEMPERD IG
GLASS THICKNESS
MIN. \(\frac{1}{4}\)" - MAX. 1-\(\frac{1}{2}\)"

GGLASS
EPDM GLAZING GASKETS
BOTTOM RAIL
POLYAMIDE
ADJUSTABLE WHEEL SET
GASKETS
BOTTOM TRACK

2"

SHIM

3\(\frac{5}{16}\)"

FINISHED FLOOR

1" DROP ANCHORS
TRENCH
SUB-FLOOR

1\(\frac{1}{2}\)"

2\(\frac{1}{2}\)"
TRENCH DEPTH (MIN.)
(= 1 1/4" - F.F. THICKNESS)
FOR MIN. DEPTH INSTALLATION
SUB-FLOOR MUST BE SMOOOTH & LEVEL

TRENCH WIDTH (RECOMMENDED)
1 TRACK  2 1/2"
2 TRACK  5"
3 TRACK  7 1/2"
4 TRACK  10"

STANDARD GLASS  1/8 X 1/8 X 1/4
CLEAR LOW-E TEMPERED IG
GLASS THICKNESS
MIN. 1/4" - MAX. 1 1/2"

1 1/4" RECESSED TRACK
TB 87 LIFT & SLIDE 8
TRENCH DEPTH (MIN.)
(= 1 1/4" - F.F. THICKNESS)

FOR MIN. DEPTH INSTALLATION
SUB-FLOOR MUST BE SMOOTH & LEVEL

TRENCH WIDTH (RECOMMENDED)
1 TRACK  2 1/2"
2 TRACK  5"
3 TRACK  7 1/2"
4 TRACK  10"

STANDARD GLASS 1/8" x 1/6" x 1/2"
CLEAR LOW-E TEMPERED IG
GLASS THICKNESS
MIN. 3/4" - MAX. 1 1/2"

---

Diagram showing:
- Glass
- EPDM glazing gaskets
- Bottom rail
- Polyamide
- Adjustable wheel set
- Gaskets
- Bottom track
- Shim
- Finished floor trench
- Sub-floor
SHIM SPACE
APPROX. $\frac{1}{2}$" DEPENDING ON TYPE OF BOTTOM TRACK & TYPE OF SILL FINISH

HEADER TRACK WIDTHS (APPROX)

2 $\frac{1}{2}$" PER TRACK
(TYPE OF BOTTOM TRACK SHOULD BE TAKEN INTO ACCOUNT WHEN PLANNING ROUGH HEADER CONSTRUCTION)

STANDARD GLASS $\frac{3}{8} \times \frac{3}{4} \times \frac{1}{2}$
CLEAR LOW-E TEMPERED IG
GLASS THICKNESS
MIN. $\frac{3}{8}$" - MAX. 1 $\frac{1}{4}$"
SHIM SPACE
APPROX. $\frac{1}{2}$"

SIDE FRAME WIDTHS (APPROX)

2 1/2" PER TRACK
(TYPE OF BOTTOM TRACK SHOULD BE TAKEN INTO ACCOUNT WHEN PLANNING SIDE JAMB CONSTRUCTION)

STANDARD GLASS $\frac{1}{8} \times \frac{7}{8} \times \frac{3}{8}$ CLEAR LOW-E TEMPERED IG

GLASS THICKNESS
MIN. $\frac{1}{8}$" - MAX. 1 1/2"

SIDE FRAME
SHIM SPACE
JAMB CONST.

EPDM GLAZING GASKETS
POLYAMIDE

PEM GLAZING GASKETS
SHIM
MULTI POINT LOCKSET
POLYAMIDE
FELT BRUSHES

5"

1 1/2"
POCKET INTERLOCK
STUCCO BLOCK
GLASS
1"
21"
21"

OUTER WALL CONSTRUCTION

5/8" DRYWALL TYP.

RECOMMENDED POCKET WIDTH
2 1/2" PER PANEL + 1"
(IF ANY SMALLER THAN THE RECOMMENDED WIDTH, INNER WALL MAY NEED TO BE FRAMED AFTER INSTALLATION OF BOTTOM TRACK)

EPDM GLAZING GASKET

POCKET BOARD

FELT BRUSH

INNER WALL CONSTRUCTION
5/8" DRYWALL TYP.

STANDARD GLASS 1/4 X 7/8 X 3/4
CLEAR LOW-E TEMPERED IG
GLASS THICKNESS
MIN. 3/4" - MAX. 1 1/4"
STANDARD GLASS $\frac{1}{3} \times \frac{3}{8} \times \frac{3}{4}$
CLEAR LOW-E TEMPERED IG
GLASS THICKNESS
MIN. $\frac{3}{4}$" - MAX. $1\frac{1}{4}$"
STANDARD GLASS $\frac{1}{2} \times \frac{3}{8} \times \frac{1}{2}$
CLEAR LOW-E TEMPERED IG
GLASS THICKNESS
MIN. $\frac{3}{8}$" - MAX. $1\frac{1}{4}$"