The Panda TS.83 Thermally Broken Multi-Sliding Door System is the perfect solution for an overall eco-friendly building envelope. The TS.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\(\frac{1}{4}\)” wide and 2” thick which provides a maximum glass to frame ratio for a large visible glass area.

Tracks:
The TS.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 TS.83.

Accessories:
Panda has put every effort into choosing the best materials available in the design of the TS.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 Low-E Tempered 1 3/8” insulated glass. A minimum of 4/8” 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:
TS.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.
TS83 THERMALLY BROKEN A/A
TYPICAL PANEL CONFIGURATIONS

**CONFIGURATIONS WITH POCKETS**

- POCKET
- POCKET
- POCKET
- POCKET
- POCKET
- POCKET
- POCKET
- POCKET

(System can pocket left or right)

**CONFIGURATIONS WITHOUT POCKETS**

- FIXED
- FIXED
- FIXED
- FIXED
- FIXED
- FIXED
- FIXED
- FIXED

(System can stack left and/or right)

**TYPOLOGY**

- 90° Units
- Corner
- Straight

**SYSTEM CAN POCKET LEFT OR RIGHT**

**SYSTEM CAN STACK LEFT AND/OR RIGHT**

**CORNER**

**STRAIGHT**
**TS83 THERMALLY BROKEN A/A**

**1 ¼" RECESSED TRACK**

**RECOMMENDED TRENCH WIDTH**

<table>
<thead>
<tr>
<th>Track</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3 5/8 &quot;</td>
</tr>
<tr>
<td>2</td>
<td>6 1/8 &quot;</td>
</tr>
<tr>
<td>3</td>
<td>8 5/8 &quot;</td>
</tr>
<tr>
<td>4</td>
<td>11 1/8 &quot;</td>
</tr>
<tr>
<td>5</td>
<td>13 5/8 &quot;</td>
</tr>
</tbody>
</table>

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**GLASS**

**EPDM GLAZING GASKETS**

**ADJUSTABLE STAINLESS STEEL WHEEL SET**

**GASKET**

**GLASS SETTING BLOCK**

**POLYAMIDE**

**PANEL**

**FINISH FLOOR**

**SUB. FLOOR**

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**TRENCH WIDTH**

1  TRACK: 3 5/8 "
2  TRACK: 6 1/8 "
3  TRACK: 8 5/8 "
4  TRACK: 11 1/8 "
5  TRACK: 13 5/8 "

---

**FINISH FLOOR**

**SUB. FLOOR**

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**TRENCH**

**3 5/8 " TRENCH WIDTH**
**RECOMMENDED TRENCH WIDTH**

1 TRACK: 3\(\frac{3}{4}\)"
2 TRACK: 6\(\frac{1}{4}\)"
3 TRACK: 8\(\frac{3}{4}\)"
4 TRACK: 11\(\frac{1}{4}\)"
5 TRACK: 13\(\frac{3}{4}\)"

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**Diagram Description**

- **Exterior**
- **Interior**
- **Glass**
- **EPDM Glazing Gaskets**
- **Adjustable Stainless Steel Wheel Set**
- **Gasket**
- **Finish Floor**
- **Sub. Floor**
- **Trench**
- **Trench Width**
- **Drain**
- **Bottom Rail**

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**TS83 Thermally Broken A/A**

1 ¼" Recessed Drain Track

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**Track Configuration**
RECOMMENDED TRENCH WIDTH

1 TRACK: 6 3/8"
2 TRACK: 8 7/8"
3 TRACK: 11 3/8"
4 TRACK: 13 7/8"
5 TRACK: 16 3/8"
RECOMMENDED TRENCH WIDTH

1 TRACK: 6 3/8"
2 TRACK: 8 7/8"
3 TRACK: 11 3/8"
4 TRACK: 13 7/8"
5 TRACK: 16 3/8"
TS83 THERMALLY BROKEN A/A HEADER

**FRAME CONFIGURATION**

**HEADER TRACK WIDTH:**
- 1 PANEL: 2½" WIDE
- 2 PANELS: 5 1/16" WIDE
- 3 PANELS: 7 9/16" WIDE
- 4 PANELS: 10 1/16" WIDE
- 5 PANELS: 12 9/16" WIDE

**Diagram:**
- **HEADER**
- **HEADER TRACK**
- **FELT BRUSHES**
- **POLYAMIDE**
- **EPDM GLAZING GASKETS**
- **GLASS**
- **INTERIOR**
- **EXTERIOR**
- **SHIM SPACE**
SIDE FRAME WIDTH:

1 PANEL: 2\(\frac{1}{2}\)" WIDE
2 PANELS: 5\(\frac{1}{16}\)" WIDE
3 PANELS: 7\(\frac{9}{16}\)" WIDE
4 PANELS: 10\(\frac{1}{16}\)" WIDE
5 PANELS: 12\(\frac{9}{16}\)" WIDE
TS83 THERMALLY BROKEN A/A PANEL INTERLOCK

FRAME CONFIGURATION

INTERIOR

PANEL

GLASS

INTERLOCK

FELT BRUSHES

EPDM GLAZING GASKETS

SETTING BLOCK

POLYAMIDE
INTERIOR

HANDLE

3 5/16"

1 1/16"

3 5/16"

1 7/8"

6 5/8"

LOCKING MECHANISM

POLYAMIDE

EPDM GLAZING GASKETS

GLASS

SETTING BLOCK

EXTERIOR

PANEL
RECOMMENDED POCKET WIDTH:

1 PANEL: 3 3/16" WIDE
2 PANELS: 5 7/16" WIDE
3 PANELS: 7 15/16" WIDE
4 PANELS: 10 7/16" WIDE
5 PANELS: 11 3/4" WIDE