Sliding Door Technical Manual
Element Designs is the leading manufacturer of custom aluminum frame doors in North America. All of our doors are built to our customers’ specifications within 1/16”. Our aluminum frame door program offers numerous profile options in several finishes and a vast selection of inserts to accent virtually any interior application. Element Designs can provide complete door systems with sliding hardware and guides/ rails cut to size, making the door installation process simple. Our customer service, quick lead times and quality are the foundation of our company. Our nationwide network of sales representatives and distributor locations provide a superior level of support to our customers and are always available to assist you with your order.

<table>
<thead>
<tr>
<th>Sliding Doors At A Glance</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Guide: Aluminum Door Profiles</td>
<td>4</td>
</tr>
<tr>
<td>Design Guide: Aluminum Door Inserts</td>
<td>5</td>
</tr>
<tr>
<td>Design Guide: Aluminum Door Divider Rail</td>
<td>7</td>
</tr>
<tr>
<td>Design Guide: PARAPAN Door Colors</td>
<td>8</td>
</tr>
<tr>
<td>Design Guide: PARAPAN Options</td>
<td>9</td>
</tr>
<tr>
<td>Design Guide: Decorative Hardware</td>
<td>10</td>
</tr>
<tr>
<td>Handle Boring Specifications</td>
<td>11</td>
</tr>
<tr>
<td>Large Sliding Doors CD 50 E Components &amp; Installation Guide</td>
<td>12</td>
</tr>
<tr>
<td>Large Sliding Doors DN 80 CF Components &amp; Installation Guide</td>
<td>21</td>
</tr>
<tr>
<td>Small Sliding Doors CD 30 CX Components &amp; Installation Guide</td>
<td>33</td>
</tr>
<tr>
<td>Small Sliding Doors SH 7035 Components &amp; Installation Guide</td>
<td>42</td>
</tr>
<tr>
<td>Warranty</td>
<td>50</td>
</tr>
</tbody>
</table>
### Sliding Doors At A Glance

<table>
<thead>
<tr>
<th>Area of Application</th>
<th>CD 50 E</th>
<th>DN 80 CF</th>
<th>SH 7035</th>
<th>CD 30 CX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closet doors</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Pantry</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Tall cabinets</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Room Divider</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Small cabinets</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Furniture</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Design</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide aluminum frame doors</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Narrow aluminum frame doors</td>
<td></td>
<td>✔️</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PARAPAN® doors</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight capacity (per door) *</th>
<th>110 lbs (50 kg)</th>
<th>176 lbs (80 kg)</th>
<th>33 lbs (15 kg)</th>
<th>66 lbs (30 kg)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Door height maximum</th>
<th>96” **</th>
<th>96” **</th>
<th>48”</th>
<th>96”***</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Door width maximum</th>
<th>N/A</th>
<th>N/A</th>
<th>36”</th>
<th>36”</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Carrier Position</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Top Sliding</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Floor Sliding</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Door Positioning</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Inset</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Floor to Ceiling</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Door Travelling</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bypass</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Single Plane</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tracks &amp; Guides</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Track</td>
<td>1, 2, 3</td>
<td>4, 5, 6, 7</td>
<td>9</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>Guide</td>
<td>8</td>
<td>10, 11</td>
<td>9</td>
<td>1, 2, 3</td>
</tr>
</tbody>
</table>

*Contact Element Designs for availability of other sliding hardware systems and applications.*

*Door weight calculator can be found online: [www.element-designs.com/support/](http://www.element-designs.com/support/)*

**Maximum door height may exceed 96” depending on insert. Please contact Element Designs.*
Frame Profiles

- **AF001**
  - 3/8" (9.5mm)
  - 13/16" (20.5mm)

- **AF002**
  - 2 1/8" (54mm)
  - 13/16" (20.5mm)

- **AF003**
  - 2 1/8" (54mm)
  - 13/16" (20.5mm)

- **AF004**
  - 2 1/8" (54mm)
  - 13/16" (20.5mm)

- **AF005**
  - 1 3/4" (45mm)
  - 13/16" (20.5mm)

- **AF006**
  - 2 1/2" (63.5mm)
  - 13/16" (20.5mm)

- **AF007**
  - 1 3/4" (45mm)
  - 13/16" (20.5mm)

- **AF008**
  - 2 3/4" (70mm)
  - 13/16" (20.5mm)

- **AF009**
  - 3/4" (19.05mm)
  - 13/16" (20.5mm)

- **AF010**
  - 2 1/4" (57.2mm)
  - 13/16" (20.5mm)

- **AF011**
  - 3/4" (19.05mm)

Profile Finishes

- **Anodized Aluminum**
- **Powder Coat**
- **Chrome**
- **Arctic Gold**

- **AF003 & AF010**
- **AF003 ONLY**

Door weight calculator can be found online: [www.element-designs.com/support/](http://www.element-designs.com/support/)
### Standard Glass Insert Options

- Glass inserts are 5/32" (4mm) thick
- Etched and patterned side facing in
- Glass is tempered safety glass without tempered logo unless otherwise specified
- 4mm mirror available upon request. Contact Element Designs for more details.

### Backpainted Glass Insert Options

- High quality water based paint on low iron glass
- All glass is tempered safety glass without a tempered logo unless otherwise specified
- 177 Non-Standard and Custom colors available.
- All backpainted glass has a light grey backer for added durability
High Gloss PARAPAN® Insert Options

- High gloss solid surface PARAPAN® material
- PARAPAN® inserts not available with AF006 or AF010
- Inserts are 5/32" (4mm) thick
- UV and fade resistant
- Easy to clean and water resistant

Images may not be exact representations of solid surface color options. Contact Element Designs to obtain samples.

- Complimentary cleaner provided with orders

Architectural Resin Insert Options

- Inserts are 5/32" (4mm) thick
- Sandstone finish on front and back
- Resin inserts contain organic materials and may vary in color and density due to natural conditions

Metallic Insert Options

- Inserts are 5/32" (4mm) thick
- Platinum ice acrylic not available with AF006 or AF010
Divider Rail

- Divider rails can be used with large sliding doors to provide additional design options
- Contact Element Designs for panel height and width limitations with integrated divider rails
- Multiple inserts may be used per door with divider rail
- Rail measures 25/32” (20mm) wide
- For use with the following profiles:
  - AF001
  - AF003
  - AF005
  - AF007
  - AF009
  - AF011
Color Options

alpine white 5910
white 5907
opal white 5196
latte 5772
pale ivory 5525
light grey 5290
stone grey 5295
cappuccino 5773
mint 5421
kiwi 5440
turquoise 5471

cobalt blue 5380
orange 5570
bordeaux 5600
signal red 5655
oxide red 5771
brown 5776
anthracite* 5297
black 5299

Images may not be exact representations of solid surface color options. Contact Element Designs to obtain samples.

* Only available in 18mm thickness.
**Edge Radius Options**

- All six surfaces have high gloss finish
- Functional and decorative hardware borings will be predrilled per specification
- Available in 19 colors
- Only available as finished doors and panels
- 4mm solid surface panels available in full sheets or cut to size for cabinet cladding and appliance applications
- PARAPAN 18mm doors are available with a choice of two standard integrated pull options
- Contact Element Designs for availability of additional custom integrated finger pull shapes

Door weight calculator can be found online: [www.element-designs.com/support/](http://www.element-designs.com/support/)
Natural Aluminum Finish Knobs

Handles & Pulls

available lengths:
P1-127 Length: 7 3/8" (5" c. to c.)
P1-190 Length: 9 13/16" (7 1/2" c. to c.)
P1-250 Length: 12 13/16" (9 13/16" c. to c.)
P1-380 Length: 17 5/16" (14 15/16" c. to c.)
P1-640 Length: 27 9/16" (25 3/16" c. to c.)
P1-880 Length: 37" (34 5/8" c. to c.)

available lengths:
P1-76S Length: 5 5/16" (3" c. to c.)
P1-192S Length: 9 15/16" (7 9/16" c. to c.)
P1-320S Length: 15" (12 9/16" c. to c.)

available lengths:
P1-76ORB Length: 5 5/16" (3" c. to c.)
P1-192ORB Length: 9 15/16" (7 9/16" c. to c.)
P1-320ORB Length: 15" (12 9/16" c. to c.)

Finger Pulls

P2-42
Length: 3" (2" c. to c.)
natural aluminum finish

Also available in black, white and oil rubbed bronze powder coated finishes

P2-42 pulls also available in custom lengths. Contact Element Designs for details.
<table>
<thead>
<tr>
<th>Profile</th>
<th>K1 Standard (Knob/ Pull Center from door edge)</th>
<th>K1 Minimum (Knob/ Pull Center from door edge)</th>
<th>K2 Standard (centered on profile)</th>
<th>Std. Handle Boring Location Through Glass (If yes, customer MUST specify hole location at time of order)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AF001</td>
<td>2.5” (63.5mm)</td>
<td>2”</td>
<td>.375”</td>
<td>NO</td>
</tr>
<tr>
<td>AF002</td>
<td>2.5” (63.5mm)</td>
<td>2.25”</td>
<td>1.063”</td>
<td>YES</td>
</tr>
<tr>
<td>AF003</td>
<td>2.5” (63.5mm)</td>
<td>2.25”</td>
<td>1.063”</td>
<td>NO</td>
</tr>
<tr>
<td>AF004</td>
<td>2.5” (63.5mm)</td>
<td>2.25”</td>
<td>.875”</td>
<td>YES</td>
</tr>
<tr>
<td>AF005</td>
<td>2.5” (63.5mm)</td>
<td>2.25”</td>
<td>.875”</td>
<td>NO</td>
</tr>
<tr>
<td>AF006</td>
<td>2.5” (63.5mm)</td>
<td>2.25”</td>
<td>.875”</td>
<td>YES</td>
</tr>
<tr>
<td>AF007</td>
<td>2.5” (63.5mm)</td>
<td>2.25”</td>
<td>1.375”</td>
<td>NO</td>
</tr>
<tr>
<td>AF008</td>
<td>22.5” (63.5mm)</td>
<td>2”</td>
<td>Contact Element Designs</td>
<td>YES</td>
</tr>
<tr>
<td>AF009</td>
<td>2.5” (63.5mm)</td>
<td>2.25”</td>
<td>.875”</td>
<td>NO</td>
</tr>
<tr>
<td>AF010</td>
<td>2.5” (63.5mm)</td>
<td>2.25”</td>
<td>.844”</td>
<td>YES</td>
</tr>
<tr>
<td>AF011</td>
<td>2.5” (63.5mm)</td>
<td>2.25”</td>
<td>1.125”</td>
<td>NO</td>
</tr>
</tbody>
</table>

- Standard Aluminum Handle Boring Diameter = 11/64” (4.3mm)
- Standard Glass Handle Boring Diameter = 5/16” (8mm)
**CD 50 E**

**Design Guidelines:**
- Floor Sliding System, top guide and bottom track
- Multiple doors per system, inset or surface mount track
- Floor to ceiling and inset casework applications
- Reference Sliding Systems At A Glance for maximum door dimensions
- Doors weighing up to 110 lbs

**Bottom Load Bearing Roller System**
(2 per door - preinstalled)

**Adjustable Position Door Stops**

**Top Door Guides**
(2 per door - Soft Close mechanisms available)

Link to Sliding Hardware Video: [https://vimeo.com/94243233](https://vimeo.com/94243233)

**Application Type:** LARGE sliding door applications (floor to ceiling, closets / wardrobes, interior openings)

**Tracks & Guides:** Surface mount or inset floor track, double top guide

**Frame height minimum:** 35mm (1.38”)

**Planes of Travel:** multiple doors on multiple planes of travel

---

**FEATURES AND BENEFITS**

- Stoppers with retention device installed inside track maintain door position
- Spring activated carrier provides a dynamic adjustment to the floor
- Easy to install doors. Central adjusting dial allows for easy height regulation
- Ball bearing high quality rollers for a silent and smooth movement
- Soft close mechanisms available

---

**DESIGN GUIDELINES**

**Door weight max:** 50kg (~110 lbs)

**Recommended Door height max:** 96” (contact Element Designs for taller dimensions)
1) Inset Single Track (021CXE)
2) Surface Mount Single Track (021CX)
3) Surface Mount Double Track (021CXD)
4) Top Guide Double (GO22)
5) Carrier Kit
6) Soft Close Mechanism - Easy Soft GOR
**SURFACE MOUNT TRACK:**
Door Height = Opening Height - 40mm

**INSET TRACK:**
Door Height = Opening Height - 35mm

Door Width = (Opening width ÷ # of doors) + (profile width* ÷ 2)

*Profile Width:
AF002 = 2 1/8” (54mm)  AF004 = 1 3/4” (45mm)  AF006 = 1 3/4” (45mm)
AF003 = 2 1/8” (54mm)  AF005 = 1 3/4” (45mm)  AF007 = 2 3/4” (70mm)
AF009 = 2 1/2” (63.5mm)  AF011 = 2 1/4” (57mm)
AF010 = 2 1/8” (54mm)
**IMPORTANT:** Must install brake in top guide with clip facing inward BEFORE installing guide into opening.

**Brake Orientation**

**Top Door Guide Installation**

**Screw Location Spacing**

```
200 mm  500 mm  500 mm
```

**Screw Installation Pattern**
Track and Guide Placement

Door Installation

Floor Carrier Adjustment
Order Form

Company: _____________________________

Contact Name: _________________________

Address: ________________________________

City / State / Zip: _________________________

Phone #: ________________________________

Fax #: ________________________________

Email: ________________________________

1. Door Type
   - Aluminum Frame:
     - AF002
     - AF003
     - AF004
     - AF005
     - AF006*
     - AF007
     - AF009
     - AF010*
     *AF006 & AF010 available ONLY with opaque Backpainted Glass inserts
   - 18mm PARAPAN®
     - Color: ____________________________

2. Profile Finish
   (Aluminum Frame doors only)
   - Anodized Finish
     - Natural Anodized
     - Brushed Stainless
     - Chrome (AF003 & AF010 ONLY)
     - Arctic Gold (AF003 ONLY)
   - Powder Coat Finish
     - Oil Rubbed Bronze
     - White
     - Black

3. Opening Info
   Dimensions of space where doors will be installed, used to calculate door dimensions. Use smallest height to calculate door height.
   Height (Left): ________
   Height (Center): ________
   Height (Right): ________
   Width: ________

4. Insert Type (select one)
   - Standard Glass Inserts:
     - Satin (Acid Etched)
     - Listral D
     - Reeded (Vertical)
     - Clear
     - Austral
     - Reeded (Horizontal)
     - Smoked
     - Master Caree
     - Low Iron Clear
     - Low Iron Satin (Acid Etched)
   - Backpainted Glass Inserts:
     - Finish (select one):
       - Gloss
       - Matte
     - Color (select one):
       - White
       - Scarlet
       - Silver
       - Bronze
       - Black
       - Olive
       - Mocha
       - Charcoal
       - Non-Standard Color:
       - Custom Color*:

5. Decorative Hardware
   - Knobs
   - Bar Pulls
   - Finger Pulls
   - Various Finishes

6. Sliding Hardware Selection
   See CD 50 E technical manual for hardware specifications
   A. Floor Track (select one)
      - Inset - single only
      - Surface Mount - single only
      - Surface Mount - double only
      - Surface Mount - single & double
   B. Planes of Travel & Number of Doors
      - 1 Plane - 1 Door
      - 2 Planes - 2 Doors
      - 2 Planes - 3 Doors
      - 2 Planes - 4 Doors
      - 3 Planes - 3 Doors
   C. Top Guide Finish
      - Natural Anodized
      - Oil Rubbed Bronze
      - Black
   D. Soft Close*
      - Do not include
      - ONE mechanism per door - LEFT SIDE
      - ONE mechanism per door - RIGHT SIDE
      - TWO mechanisms per door - LEFT AND RIGHT
      *Minimum door width of 20" for one mechanism, 36" for two mechanisms

**All glass is tempered safety glass & will not have etched tempered logo unless otherwise specified at time of order. Refer to local building codes.

Please contact Element Designs for technical questions and additional sliding door hardware options. Sliding door options and availability subject to change.

v1.15
Door Dimension Calculation:

**SURFACE MOUNT TRACK**

- Opening Height
- Door Height

**INSET TRACK**

- Opening Height
- Door Height

**SURFACE MOUNT TRACK:**
Door Height = Opening Height - 40mm
Door Width = (Opening width ÷ # of doors) + (profile width* ÷ 2)

**INSET TRACK:**
Door Height = Opening Height - 35mm = Door

**Divider Rail Inserts & Locations:**

*ONLY available with AF003, AF005, AF007, & AF009. Width = 3/4”*

- Panel 1 Insert: ____________
  - D1 = ____________
    - (top of door to center of divider rail)

- Panel 2 Insert: ____________
  - D2 = ____________
    - (center of divider rail to center of divider rail or bottom of door if applicable)

- Panel 3 Insert: ____________
  - D3 = ____________
    - (center of divider rail to center of divider rail or bottom of door if applicable)

- Panel 4 Insert: ____________
  - D4 = ____________
    - (center of divider rail to center of divider rail or bottom of door if applicable)

**Handle Location:**

- Handle Hole Diameter = 11/64” (4.37mm)
- *For handle holes in glass, the white plastic grommet cover included with the door should be left in place when handle or knob hardware is installed.

- K1 = ____________
  - Knob or Pull
    - (Std = centered on frame)

- K2 = ____________
  - Knob or Pull
    - (Min = 2 1/4”, Std = 2 1/2”)

- KC = _________
  - Center to center

---

for additional information or customer support please call: (877) 332-3396
Design Guidelines:
- Top Sliding System, top track with floor guides
- Floor to ceiling, inset casework, & barn door applications
- Recommended for use with two doors
- Reference Sliding Systems At A Glance for maximum door dimensions
- Doors weighing up to 176 lbs

Top Load Bearing Carriers
(2 per door - preinstalled)

Adjustable Position Door Stops

Plane of Travel Floor Guides

Link to Sliding Hardware Video (Easy Soft DN80): https://vimeo.com/82307566
**SYSTEM INFORMATION**

**Application Type:** LARGE sliding door applications (floor to ceiling, closets / wardrobes, interior openings)

**Tracks & Guides:** Inset top track, barn door wall bracket, floor guides

**Frame height minimum:** 35mm (1.38”)

**Planes of Travel:** multiple doors on multiple planes of travel

---

**FEATURES AND BENEFITS**

Stoppers with retention device installed inside track maintain door position

Easy to install doors. Central adjusting dial allows for easy height regulation

Ball bearing high quality rollers for a silent and smooth movement

Soft close mechanisms available

---

**DESIGN GUIDELINES**

**Door weight max:** 80kg (~176 lbs)

**Recommended Door height max:** 96” (contact Element Designs for taller dimensions)
Large Sliding Doors - DN 80 CF

Hardware - Carrier kits & Track

1) Top Hanging Single Track (U21)
2) Top Hanging Double Track (U21 DBL)
3) Lateral Wall Bracket (023BRAU21)
4) Top Hanging Fascia (U21 66)
5) Carrier Kit DN 80 CF
6) Round Floor Guide (GPR1150)
7) 'L' Bracket Floor Guide (LBR)
8) Easy Soft DN 80 (Optional)
**Interior Opening Installation**

Interior Door Height = Opening Height - 66mm

Door Width = (Opening width ÷ # of doors) + (profile width* ÷ 2)

**Barn Door Installation**

Barn Door Height = Wall Bracket Height* - 66mm

*Wall Bracket Height measured from the BOTTOM of the bracket

**Door Dimension Calculations:**

*Profile Width:

- AF002 = 2 1/8" (54mm)
- AF003 = 2 1/8" (54mm)
- AF004 = 1 3/4" (45mm)
- AF005 = 1 3/4" (45mm)
- AF006 = 1 3/4" (45mm)
- AF007 = 2 3/4" (70mm)
- AF009 = 2 1/2" (63.5mm)
- AF010 = 2 1/8" (54mm)
- AF011 = 2 1/4" (57mm)
Carrier Kit Installation:

*Carrier kit and stops must be installed in track prior to installation!*

**Track Placement:**

![Track Placement Diagram]

**Floor Guide Installation:**

![Floor Guide Installation Diagram]

**Door Installation:**

![Door Installation Diagram]

Carriers have 6mm of height adjustment.
Barn Door Track Installation:

Lateral Wall Bracket (023BRAU21)

M6x20 (1/4" x 3/8")
M5x10 (3/16" x 3/8")

17 mm
100 mm
500 mm
100 mm

Fascia Installation:

Fascia 62

Double Track Installation:

Double carrier Track U21

3.5 X 20 mm
300 mm

End Caps:

U21 FASCIA 62 Cap

U21 Cap
1. **Align Components:**

![Diagram of Align Components]

- Min 550 mm
- Dimensions: 6 x 6

2. **Charge Easy Soft Piston:**

![Diagram of Charge Easy Soft Piston]

- Piston should be compressed before Easy Soft installation
- Use M8 x 40 fasteners

3. **Install Carriers and Piston in Track**

![Diagram of Install Carriers and Piston in Track]

- Countersink track fasteners over the EasySoft activator to avoid interference with the activator arm
- Use M8 x 40 fasteners

4. **Install Track:**

![Diagram of Install Track]

- Dimensions: 80 x 300 x 300 x 80
- Ensure correct alignment
- Pre-installed on sliding doors by Element Designs

5. **Install Bottom Roller Guide:**

![Diagram of Install Bottom Roller Guide]

- Use plumb line to determine exact center location
- Dimensions: AV x AV/2
- #8 x 1” screws

6. **Install Door Brackets:**

![Diagram of Install Door Brackets]

- Pre-installed on sliding doors by Element Designs
- Dimensions: 40 mm
- Use #6 screws

**Instructions:**

- Align components at minimum 550 mm.
- Charge Easy Soft Piston before installation.
- Countersink track fasteners to avoid interference.
- Install track with correct dimensions and alignment.
- Use plumb line for precise center location.
- Install door brackets as pre-installed by Element Designs.
Door Installation:

Position Door Stop:

Secure Door Stop and Lock In Place:

Lock Carriers In Place:

Carriers have 6mm of height adjustment.
## Order Form

**Large Sliding Doors - DN 80 CF**

**DN 80 CF Sliding Door System**

### 1. Door Type
- **Aluminum Frame:**
  - AF002
  - AF003
  - AF004
  - AF005
  - AF006*
  - AF007
  - AF009
  - AF010*
  *
  *AF006 & AF010 available ONLY with opaque Backpainted Glass inserts

- **18mm PARAPAN®**
  - Color: ________________

### 2. Profile Finish
- **Aluminum Frame only**
- **Anodized Finish**
- **Natural Anodized**
- **Brushed Stainless**
- **Chrome (AF003 & AF010 ONLY)**
- **Arctic Gold (AF003 ONLY)**

- **Powder Coat Finish**
  - Oil Rubbed Bronze
  - White
  - Black

### 3. Opening Info
- Dimensions of space where doors will be installed, used to calculate door height and width.
  - **Height (Left):** ________________
  - **Height (Center):** ________________
  - **Height (Right):** ________________
  - **Width:** ________________

### 4. Insert Type (select one)
- **Standard Glass Inserts:**
  - Satin (Acid Etched)
  - Listral D
  - Reeded (Vertical)
  - Clear
  - Austral
  - Reeded (Horizontal)
  - Smoked Grey
  - Master Carre
  - Low-Iron Clear
  - Low-Iron Satin (Acid Etched)
- **Backpainted Glass Inserts:**
  - Finish (select one):
    - Gloss
    - Matte
  - Color (select one):
    - White
    - Black
    - Olive
    - Bronze
    - Sand
    - Mocha
    - Charcoal
  - Non-Standard Color:
  - Custom Color*:
  *
  *Custom Color match approval & fee applies. Contact Element Designs for details.

- **3form® Resin Inserts:**
- Pattern: ________________
- **Parapan® High Gloss Inserts:**
- Color: ________________

### 5. Decorative Hardware
- **Knobs**
  - K001: P1-127
  - K005: P1-190
- **Bar Pulls**
  - K006: P1-320
  - K007: P1-250
- **Finger Pulls**
  - K008: P1-380
  - K009: P1-880

### 6. Sliding Hardware Selection

#### A. Installation (select one)
- Interior Opening - Single track
- Interior Opening - Double track
- Barn Door (requires wall mount brackets for track, ONLY single track, ONE plane of travel)

#### B. Planes of Travel & Number of Doors
- 1 Plane - 1 Door
- 1 Plane - 2 Doors
- 2 Planes - 2 Doors
- 2 Planes - 3 Doors

#### C. Fascia Cover Finish
- Natural Anodized
- Oil Rubbed Bronze
- White
- Black

#### D. Soft Close*
- Do not include
- ONE mechanism per door - LEFT SIDE
- ONE mechanism per door - RIGHT SIDE
- TWO mechanisms per door - LEFT AND RIGHT

### Special Instructions:
- Drill for handle holes
- (Must specify handle location on pg 2)

Please contact Element Designs for technical questions and additional sliding door hardware options. Sliding door options and availability subject to change.

---

Please contact Element Designs for technical questions and additional sliding door hardware options. Sliding door options and availability subject to change.

**v1.15**

Ph: (877) 332-3396   Fx: (704) 332-3267

www.element-designs.com     orders@element-designs.com
Door Dimension Calculations:

**Interior Opening Installation:**
Interior Door Height = Opening Height - 66mm
Door Width = (Opening width ÷ # of doors) + (profile width* ÷ 2)
*See Element Designs catalog for profile width dimensions

**Barn Door Installation:**
Barn Door Height = Wall Bracket Height* - 66mm
*Wall Bracket Height measured from the BOTTOM of the bracket

Hardware Dimensions:
Divider Rail Inserts & Locations:

*ONLY available with AF003, AF005, AF007, & AF009. Width = 3/4"*

```
D1 = ________________
   (top of door
to center of
divider rail)

D2 = ________________
   (center of divider rail
to center of divider rail
or bottom of door
if applicable)

D3 = ________________
   (center of divider rail
to center of divider rail
or bottom of door
if applicable)

D4 = ________________
   (center of divider rail
to center of divider rail
or bottom of door
if applicable)
```

Panel 1
Insert: ________________

Panel 2
Insert: ________________

Panel 3
Insert: ________________

Panel 4
Insert: ________________

Handle Location:

Handle Hole Diameter = 11/64" (4.37mm)

K1 = _____
Knob or Pull (Std = centered on frame)

KC = ______
Center to center distance of pull

K2 = _____
Knob or Pull - (Min = 2 1/4", Std = 2 1/2")

for additional information or customer support please call: (877) 332-3396
Design Guidelines:
- Small Sliding System, top and bottom track
- Single or by-pass sliding doors, with surface mount or inset track. Single overlay track available as well.
- Reference Sliding Systems At A Glance for maximum door dimensions
- Doors weighing up to 66 lbs

Small Door Carriers
(4 per door - preinstalled)

Inset Track
Inspiration Images

AF002 Profile, White Gloss Backpainted Glass
AF004 Profile, Bear Grass 3Form (Upper)
AF006 Profile, Olive Gloss Backpainted Glass (Lower)

AF004 Profile, White Matte Backpainted Glass
**Application Type:** SMALL sliding door applications (cabinets, furniture, closets / wardrobes)

**Tracks & Guides:** Surface mount or inset floor track and guide

**Frame height minimum:** 35mm (1.38”) - CANNOT USE WITH NARROW FRAME DOORS AF001 and AF008

**Planes of Travel:** multiple doors on multiple planes of travel

**FEATURES AND BENEFITS**

Includes brakes for lower track.

Easy adjustment and smooth movement.

Spring loaded carriers and guides prevent the door from jumping the track.

Spring lock mechanism allows for easy installation and removal of the door.

Flush mount carrier installation reduces the space/gap between the doors.

**DESIGN GUIDELINES**

**Door weight max:** 30kg (~66 lbs)

Refer to online door weight calculator to determine door weight: http://www.element-designs.com/support/

**Recommended Door height max:** 96” (contact Element Designs for taller dimensions)
1) Inset Single Track (021CXE)
2) Surface Mount Single Track (021CX)
3) Surface Mount Double Track (021CXD)
4) Top Guide
5) Lower Carrier
6) Brake

Surface Mount Single Track (021CX)
Surface Mount Double Track (021CXD)
Top Guide (Pre-installed)
Lower Carrier (Pre-installed)
**Surface Mount Track:**

Door Height = Opening Height - 18mm

**Inset Track:**

Door Height = Opening Height - 8mm

Door Width = (Opening width ÷ # of doors) + (profile width* ÷ 2)

*Profile Width:

| *AF002 = 2 1/8" (54mm)* | *AF004 = 1 3/4" (45mm)* | *AF006 = 1 3/4" (45mm)* | *AF009 = 2 1/2" (63.5mm)* | *AF011 = 2 1/4" (57mm)* |
| AF003 = 2 1/8" (54mm) | AF005 = 1 3/4" (45mm) | AF007 = 2 3/4" (70mm) | AF010 = 2 1/8" (54mm) |
Install brakes in track prior to track installation.

Install carriers (pre-installed in Element Designs’ doors)

Unlock lower carrier prior to installing door in track. Lock carrier when doors are in place.
Install brakes in track prior to track installation.

Install carriers

Unlock lower carrier prior to installing door in track. Lock carrier when doors are in place.
# Small Sliding Doors - CD 30 CX

## Order Form

### CD 30 CX Sliding Door System

- **Quote**
- **Order**

**www.element-designs.com**

**Bottom Hinged - Small Doors - Maximum 80 lb / 66 lb per door**

---

**1. Door Type**
- **Aluminum Frame:**
  - AF001
  - AF002
  - AF003
  - AF004
  - AF005
  - AF006
  - AF007
  - AF008
  - AF009
  - AF010
  - AF011

**2. Profile Finish**
- **Anodized Finish**
- **Natural Anodized**
- **Brushed Stainless**
- **Chrome - 3 years warranty**
- **Arctic Gold - 1 year warranty**

- **Powder Coat Finish**
  - Oil Rubbed Bronze
  - White
  - Black

**3. Opening Info**
- **Height (Left):**
- **Height (Right):**
- **Width:**

---

**4. Insert Type (select one)**
- **Standard Glass Inserts:**
  - Satin Glass
  - Listro D
  - Reseda (Perla)
  - Smoked Gray
  - Mirror Coat
  - Low Iron Clear
  - Low Iron Satin (Picklock)

- **Backpainted Glass Inserts:**
  - Finish (select one):
    - Glass
    - Matte

**Paint Color (select one):**
- White
- Scarlett
- Silver
- Black
- Olive
- Bronze
- Sand
- Mocha
- Charcoal

- **Custom Color:**
  - Custom Color:

**5. Sliding Hardware Selection**

- **Floor Track (select one):**
  - Insert - single only
  - Surface Mount - single only
  - Surface Mount - double only

- **Planes of Travel & Number of Doors:**
  - 1 Plane - 1 Door
  - 1 Plane - 2 Doors
  - 2 Planes - 2 Doors
  - 2 Planes - 3 Doors
  - 2 Planes - 4 Doors

**6. Decorative Hardware & Handles**

- **Knob / Pull:**
  - Brass
  - Satin Nickel
  - Satin Nickel - Oil Rubbed Bronze

**Price**

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Door Dimensions (see page 2)</th>
<th>Divider Rails</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>Height</td>
<td></td>
<td></td>
</tr>
<tr>
<td>yes</td>
<td>no</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Special Instructions:**

- **Knots/Pulls:**
- **Hardware:**
- **Shipping:**

**Total:**

---

*Please contact Element Designs for technical questions and additional fitting door hardware options. Fitting door options and availability subject to change.*
Small Sliding Doors - CD 30 CX

CD 30 CX Sliding Door System

Order Form

Door Dimension Calculations:

Surface Mount Track:

Inset Track:

Door Height = Opening Height - 18mm

Door Height = Opening Height - 8mm

Door Width = (Opening width ÷ # of doors) + (profile width ÷ 2)

Profile Width:

APD2 = 2 1/8" (54mm)  
APD4 = 1 3/4" (45mm)  
APD8 = 2 1/8" (54mm)  
APD11 = 2 1/4" (57mm)

Divider Rail Inserts & Locations:

Divider Rails ONLY available with APD2, APD4, APD8, & APD11 - Rail width = 3/4"

D1 = ________

[top of door to center of divider rail]

D2 = ________

[center of divider rail to center of divider rail or bottom of door if applicable]

D3 = ________

[center of divider rail to center of divider rail or bottom of door if applicable]

Panel 1

Insert: ____________

Panel 2

Insert: ____________

Panel 3

Insert: ____________

Handle Location:

Knife Hole Diameter = 1/16" (4mm)

K1 = ________

Knob or Pull

[Std = centered on frame]

KC = ________

Center to center of Pull

K2 = ________

Knob or Pull

[Min = 2 1/4", Std = 2 1/2"]

Hardware Dimensions:

Inset Track (CXX)

Surface Mount Track Double (CDX)

Surface Mount Track Single (CX)
Design Guidelines:
- Small Sliding System, top and bottom track
- Multiple doors per system, inset track
- Reference Sliding Systems At A Glance for maximum door dimensions
- Doors weighing up to 33 lbs

Small Sliding Doors - SH 7035

Small Door Carriers
(4 per door - preinstalled)

Inset Track
Up to 140”
**Application Type:** SMALL sliding door applications (cabinets, furniture, closets / wardrobes)

**Tracks & Guides:** inset top and bottom track

**Frame height minimum:** 20.5mm (.813”)

**Planes of Travel:** multiple doors on multiple planes of travel

**FEATURES AND BENEFITS**

Easy adjustment and smooth movement.

Spring loaded carriers and guides prevent the door from jumping the track.

Flush mount carrier installation reduces the space/ gap between the doors.

**DESIGN GUIDELINES**

**Door weight max:** 15kg (~33 lbs)

Refer to online door weight calculator to determine door weight: http://www.element-designs.com/support/

**Recommended Door height max:** 48” (contact Element Designs for taller dimensions)

**NOT RECOMMENDED FOR USE WITH PARAPAN HIGH GLOSS SOLID SURFACE DOORS**
Inset Single Track (7035)

Small Door Carriers
(pre-installed 4 per door)
Door Height = Opening height - 5mm

Door Width = (Opening width + profile width\(^*\)) / 2

*Profile Width: \nAF001 = 13/16" (20.5mm) \nAF002 = 2 1/8" (54mm) \nAF003 = 2 1/8" (54mm) \nAF004 = 1 3/4" (45mm) \nAF005 = 1 3/4" (45mm) \nAF006 = 1 3/4" (45mm) \nAF007 = 2 3/4" (70mm) \nAF008 = 13/16" (20.5mm) \nAF009 = 2 1/2" (63.5mm) \nAF010 = 2 1/8" (54mm) \nAF011 = 2 1/4" (57mm)
Track Positioning & Installation

Hardware Installation
Element Designs will furnish pre-installed hardware in standard location

Door Installation
Install the back door first.

To install the door in track, insert the upper two rollers into the upper inner rail. Press the door upwards in order to go over the lower inner rail. The door will then fall into place in both upper and lower rails.

Repeat the installation with the front door.
## Small Sliding Doors - SH 7035

**Order Form**

**Company:** ____________________________

**Contact Name:** ________________________

**Address:** ______________________________

**City / State / Zip:** ______________________

**Phone #:** ______________________________

**Fax #:** ________________________________

**Email:** ________________________________

### Door Type

- **Aluminum Frame:**
  - AF001
  - AF002
  - AF003
  - AF004
  - AF005
  - AF006
  - AF007
  - AF008
  - AF010

*AF004 & AF010 available ONLY with opaque backpainted glass inserts*

### Profile Finish

- **Anodized Finish**
- **Natural Anodized**
- **Brushed Stainless**
- **Chrome (years ago)**
- **Arctic Gold (pea)**
- **Powder Coat Finish**
- **Oil Rubbed Bronze**
- **White**
- **Black**

### Opening Info

Dimensions of space where doors will be installed, used to calculate door dimensions. The average height to calculate description.

- **Height (left):** ________
- **Height (center):** ________
- **Height (right):** ________
- **Width:** ________

### Insert Type (select one)

- **Standard Glass Inserts:**
  - Satin (clear)
  - Listral D
  - Reeded (horizontal)
  - Clear
  - Antirad (vertical)
  - Reeded (vertical)
  - Smoked Gray (medium shade)
  - Clear (low iron)
  - Low Iron Clear (clear)
  - Low Iron Satin (clear)

- **Backpainted Glass Inserts:**
  - Finish (select one):
    - Glass
    - Matte

- **Paint Color (select one):**
  - White
  - Scarlet
  - Silver
  - Black
  - Olive
  - Bronze
  - Sand
  - Mocha
  - Charcoal
  - Non-Standard Color
  - Custom Color

### Sliding Hardware Selection

See sliding door technical manual for hardware specifications.

#### A. Track (select one)

- **Insert - single only**

#### B. Planes of Travel & Number of Doors

- **1 Plane - 1 Door**
- **1 Plane - 2 Doors**
- **2 Planes - 2 Doors**
- **2 Planes - 3 Doors**
- **2 Planes - 4 Doors**
- **Other**

#### C. Track Finish (Select one)

- **Natural Anodized**
- **Oil Rubbed Bronze**
- **Textured (Optional)**

Four door areas per door will be included and preassembled on each door.

### Decorative Hardware & Handles

<table>
<thead>
<tr>
<th>Knobs/Pulls</th>
<th>Hardware</th>
<th>Shipping</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please contact Element Designs for technical questions and additional sliding door hardware options. Sliding door options and availability are subject to change.

---

**800x110 15**

**SH 7035 Sliding Door System**

Top & Bottom Sliding - Small Doors - Medium 550 lbs. per door

**element DESIGNS**

www.element-designs.com

Order Form

Email (or fax) form to your authorized distributor:

Authorized Distributor: ________________________

Branch Location: ______________________________

Email / Fax: ________________________________

Date: ____________________

PO #: ____________________

Project Name: ____________________________

CITY: ____________________________________

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Door Dimensions (see page 2)</th>
<th>in mm</th>
<th>Divider Rails</th>
<th>Element Designs Use Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Width</td>
<td>Height</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Width</td>
<td>Height</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Width</td>
<td>Height</td>
<td>yes</td>
<td>no</td>
</tr>
</tbody>
</table>

Special Instructions: ____________________________

Knobs/Pulls: ________________________________

Hardware: ________________________________

Shipping: ________________________________

TOTAL: ________________________________

Please contact Element Designs for technical questions and additional sliding door hardware options. Sliding door options and availability are subject to change.

---

Page 1 - v10.15
Door Dimension Calculations:

\[
\text{Door Width} = \left(\frac{\text{Opening width} \div \# \text{ of doors}}{\text{profile width}}\right) + \left(\frac{\text{profile width} \div 2}{2}\right)
\]

- **Profile Width**: AF001 = 3/4" (20.3mm)
- **AF002** = 2 1/8" (54mm)
- **AF003** = 2 1/8" (54mm)
- **AF004** = 1 3/4" (45mm)
- **AF005** = 1 3/4" (45mm)
- **AF006** = 1 3/4" (45mm)
- **AF007** = 2 3/4" (70mm)
- **AF008** = 2 3/4" (70mm)
- **AF009** = 2 1/2" (63.5mm)
- **AF010** = 2 1/2" (63.5mm)
- **AF011** = 2 1/4" (57mm)

Door Height = Opening Height - 5mm

**Divider Rail Inserts & Locations:**

Divider Rails ONLY available with AF001, AF003, AF005, AF007, & AF009 - Rail width = 3/4"

**Handle Location:**

- **Panel 1**
  - Insert: ____________
  - Knob or Pull
    - (Hd = centered on frame)

- **Panel 2**
  - Insert: ____________
  - Center to center of Pull

- **Panel 3**
  - Insert: ____________
  - Knob or Pull
    - (Min = 2 1/4", Std = 2 1/2")

**Hardware Dimensions:**

Inset Single Track 7035

---

For additional information or customer support please call: [677] 332-3396
Element Designs’ aluminum frame cabinet door products are covered by a limited liability warranty from defects in material and workmanship over the functional lifetime of the doors. The warranty includes any defects in the fabricated door size, boring locations, aluminum framing flaws outside of quality standards, and glass imperfections outside of quality standards. Element Designs also warrants its doors from deterioration, discoloring, degrading, or overall changing through the course of the product’s lifetime. This warranty does not apply if, in the judgment of Element Designs, the product fails due to damage from shipment, handling, storage, accident, abuse or misuse, or if it has been used or maintained in a manner not conforming to product’s care instructions, has been modified in any way, or has been defaced. Repair by anyone other than Element Designs or an approved agent voids this warranty. The maximum liability of Element Designs is the product purchase price.
Street Address:
235 Crompton Street
Charlotte, NC 28273
Mailing Address:
P.O. Box 7747
Charlotte, NC 28241
Ph: 877-332-3396
Fx: 704-332-3267
www.element-designs.com
info@element-designs.com