**TECTUS® – The adjustable concealed door hinge**

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<tr>
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<td>up to 40 kg (88 lbs.)</td>
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<tr>
<td>TE 340 3D Energy Kit</td>
<td>up to 80 kg (176 lbs.)</td>
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<td>TE 645 3D Energy Kit</td>
<td>up to 300 kg (661 lbs.)</td>
<td>With integrated and continuous energy transfer for flush doors</td>
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<tr>
<td>TE 541 3D FVZ</td>
<td>up to 100 kg (220 lbs.)</td>
<td>For flush residential and commercial doors with recessed frame facings</td>
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<tr>
<td>TE 540 3D A8</td>
<td>up to 100 kg (220 lbs.)</td>
<td>For flush doors with claddings up to 8 mm (0.315&quot;)</td>
</tr>
<tr>
<td>TE 640 3D A8</td>
<td>up to 160 kg (352 lbs.)</td>
<td>For flush doors with claddings up to 8 mm (0.315&quot;)</td>
</tr>
<tr>
<td>TE 626 3D A8</td>
<td>up to 250 kg (551 lbs.)</td>
<td>For flush doors with claddings up to 8 mm (0.315&quot;)</td>
</tr>
<tr>
<td>TE 540 3D A8 Energy Kit</td>
<td>up to 100 kg (220 lbs.)</td>
<td>For flush doors with claddings up to 8 mm (0.315&quot;)</td>
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</tr>
</tbody>
</table>

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**Cover Plates, Fixing Plates and Receivers**

- **Cover Plates**
  - Add-on item for frame and door prep
- **Receivers**
  - Reinforcement for doors and frames for flush steel and stainless steel doors
- **Fixing Plate FZ/1**
  - For reinforcement of casing frames

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**General Information**
THE COMPLETELY CONCEALED HINGE SYSTEM

The **TECTUS** series of concealed hinges offers unsurpassed quality, versatility, and depth. This series features an entire range for architectural openings. The TECTUS hinge offers a “clean” look, which has not been matched by any other manufacturer.

The adjustment feature provides a simple way to create a perfect margin between the door and the frame. This enables the door to be adjusted in three dimensions (horizontal, vertical and in/out) by simply turning an Allen wrench. The refined visual appearance in combination with its maintenance-free slide bearings distinguishes TECTUS from all other concealed hinges.

The **TECTUS A8** versions allow a door to visually disappear into a wall with many different kinds of claddings such as mirrors, laminates, and marble.

Modern and efficient buildings of today often require the ability to control and operate doors remotely. This requires the transfer of electrical power and data/information from door frames to door panels. The **TECTUS Energy** series provides a sophisticated way to fulfill the requirement of this technology when card readers, access and door control systems, electrified locks, monitoring systems, and multimedia components are used. The cable, with its 16 wires, is completely concealed behind the hinge arms in order to avoid unauthorized tampering. The TECTUS Energy hinge is available in a wide variety to accommodate different door weights and applications.

**TECTUS® – THE ADJUSTABLE CONCEALED DOOR HINGE**

- For clean, flush architectural designs
- For load capacities of up to 300 kg (661 lbs.)
- For flush and rabbeted flush doors
- For wood, steel and aluminum doors and frames
- Ability to open door full 180 degrees
- With maintenance-free slide bearing technology
A FULL RANGE OF CONCEALED HINGES

SIMONSWERK provides a comprehensive concealed hinge product line, TECTUS, for a wide variety of applications. These applications include residential and commercial doors as well as heavy fire doors and soundproof doors.

The TECTUS series offers consistent characteristics throughout the entire product line, such as the visual appearance, functionality and adjustability. Durability is another key feature that the TECTUS series offers and is therefore not limited to low traffic door applications. The ease of installation and maintenance-free slide bearing technology distinguishes this product line. TECTUS hinges are available in 16 architectural finishes.

TE 240 3D
Load capacity up to 40 kg (88 lbs.)

TE 340 3D
Load capacity up to 80 kg (176 lbs.)

TE 526 3D
Load capacity up to 120 kg (264 lbs.)

TE 527 3D
Load capacity up to 120 kg (264 lbs.)

Versions for special applications starting on page 14.
TE 540 3D
Load capacity up to 120 kg (264 lbs.)

TE 640 3D
Load capacity up to 200 kg (440 lbs.)

TE 645 3D
Load capacity up to 300 kg (661 lbs.)
TE 240 3D
For flush residential doors

| Hinge | up to 40 kg (88 lbs.) |

**Product Features**
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- For flush residential doors
- Finger protection due to a small gap between door and frame
- Easily adjustable in three dimensions
  (side +/- 3.0 mm (0.118”), height +/- 3.0 mm (0.118”), compression +/- 1.5 mm (0.059”))
- Maintenance-free slide bearings

The specification text can be downloaded from the PRODUCTSELECTOR at www.simonswerk-usa.com.

**Technical Data**
- Load capacity: 40 kg (88 lbs.)
- Length: 155 mm (6.102”)
- Width (door): 18 mm (0.709”)
- Width (frame): 21 mm (0.827”)
- Router bit / collar Ø: 1/2” / 1”

**Finishes**
Standard Finishes: satin chrome look (F1), satin nickel look (F2), stainless steel look (SSL), rustic umber, bronze metallic, traffic white (RAL 9016), matte deep black (RAL 9005), polished brass, polished nickel, satin nickel, satin chrome
Special Finishes: grey metallic (F9), bronze finish light, bronze finish , bronze finish dark, other finishes available upon request

**Combinations**
- Receiver/Reinforcement
  - Commercial frame
  - Casing frame
  - Steel frame
  - Steel door
  - Aluminum frame
- Frame mounted
- TE 240 3D FZ/1
- TE 240 3D SZ
- TE 240 3D ST
- Specified by manufacturer

**Installation Tools**
- Jig: Universal milling frame
- Frame routing template: No. 5 251074 6
- Door routing template: No. 5 251075 6

**Note**
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2.1 (see page 46 for further detail).
For a minimum door panel thickness of 26 mm (1.024”).
TE 340 3D
For flush residential and commercial doors

Hinge | up to 80 kg (176 lbs.)

Product Features
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- For flush residential and commercial doors
- Finger protection due to a small gap between door and frame
- Easily adjustable in three dimensions
  (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings
- UL listed for 20 minute fire door

The specification text can be downloaded from the PRODUCTSELECTOR at www.simonswerk-usa.com.

Technical Data
| Load capacity | 80 kg (176 lbs.) |
| Length | 160 mm (6.299") |
| Width (door) | 28 mm (1.102") |
| Width (frame) | 28 mm (1.102") |
| Router bit / collar Ø | 3/4 / 1" |

Finishes
Standard Finishes: satin chrome look (F1), satin nickel look (F2), stainless steel look (SSL), rustic umber, bronze metallic, traffic white (RAL 9016), matte deep black (RAL 9005), polished brass, polished nickel, satin nickel, satin chrome
Special Finishes: grey metallic (F9), bronze finish light, bronze finish, bronze finish dark, other finishes available upon request

Combinations
| Receiver/Reinforcement | Commercial frame | Frame mounted |
| Casing frame | TE 340 3D FZ |
| Steel frame | TE 340 3D SZ |
| Steel door | TE 340 3D ST |
| Aluminum frame | Specified by manufacturer |

Installation Tools
| Jig | Universal milling frame |
| Step 1 | routing template |
| No. | 5 251058 S |
| Step 2 | routing template |
| No. | 5 251059 S |

Application Range
Fire Resistant, Smoke Resistant, Forced Entry Resistant

Note
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail).
For a minimum door panel thickness of 38 mm (1.1/2")
For fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.
Square-corner cover plates are available upon request - see page 34.
**TE 526 3D**
Manufactured of solid stainless steel for flush commercial doors

<table>
<thead>
<tr>
<th>Hinge</th>
<th>up to 120 kg (264 lbs.)</th>
</tr>
</thead>
</table>

**Product Features**
- Solid non magnetic stainless steel (304 series)
  (marine grade 316 series upon request)
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- For flush commercial doors
- Easily adjustable in three dimensions
  (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings
- Finger protection due to a small gap between door and frame
- UL listed for 180 minute fire door

The specification text can be downloaded from the PRODUCTSELECTOR at www.simonswerk-usa.com.

**Technical Data**
- Load capacity: 120 kg (264 lbs.)
- Length: 155 mm (6.102")
- Width (door): 26 mm (1.024")
- Width (frame): 26 mm (1.024")
- Router bit / collar Ø: 3/4" / 1"

**Finishes**
satin stainless steel (304 series)

**Combinations**
- Receiver/Reinforcement
  - Commercial frame
  - Frame mounted
  - Casing frame
  - TE 526 3D FZ/1
  - Steel frame
  - TE 526 3D SZ
  - Steel door
  - TE 526 3D ST
  - Aluminum frame
  - Specified by manufacturer

**Installation Tools**
- Jig
  - Universal milling frame
  - Drilling jig TECTUS TE 526 3D
- Frame/Door
  - routing template
  - No. 5 251070 6

**Application Range**
- Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant, High Corrosion Resistant

**Note**
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail).
For a minimum door panel thickness of 34 mm (1-3/8").
For fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.
Square-corner cover plates are available upon request - see page 34.
The load capacity shall be reduced by 20% when installed in combination with a door closer.
TE 527 3D
Manufactured of mild steel for flush commercial doors

Hinge | up to 120 kg (264 lbs.)

Product Features
- Mild steel
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- For flush commercial doors
- Easily adjustable in three dimensions (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings
- Finger protection due to a small gap between door and frame
- UL listed for 180 minute fire door

The specification text can be downloaded from the PRODUCTSECTOR at www.simonswerk-usa.com.

Technical Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load capacity</td>
<td>120 kg (264 lbs.)</td>
</tr>
<tr>
<td>Length</td>
<td>155 mm (6.102&quot;)</td>
</tr>
<tr>
<td>Width (door)</td>
<td>26 mm (1.024&quot;)</td>
</tr>
<tr>
<td>Width (frame)</td>
<td>26 mm (1.024&quot;)</td>
</tr>
<tr>
<td>Router bit/collar Ø</td>
<td>3/4&quot; / 1&quot;</td>
</tr>
</tbody>
</table>

Finishes
stainless steel look (SSL), other finishes available upon request

Combinations

<table>
<thead>
<tr>
<th>Receiver/Reinforcement</th>
<th>Commercial frame</th>
<th>Frame mounted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing frame</td>
<td>TE 527 3D FZ/I</td>
<td></td>
</tr>
<tr>
<td>Steel frame</td>
<td>TE 527 3D SZ</td>
<td></td>
</tr>
<tr>
<td>Steel door</td>
<td>TE 527 3D ST</td>
<td></td>
</tr>
<tr>
<td>Aluminum frame</td>
<td>Specified by manufacturer</td>
<td></td>
</tr>
</tbody>
</table>

Installation Tools
- Jig: Universal milling frame
- Drilling jig TECTUS TE 527 3D

Frame/Door routing template No. 5 2510706

Application Range
Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant

Note
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2.1 (see page 46 for further detail).
For a minimum door panel thickness of 34 mm (1-3/8").
For fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.
Square-corner cover plates are available upon request - see page 34.
The load capacity shall be reduced by 20% when installed in combination with a door closer.
**TECUTS®**

**TE 540 3D**  
For flush commercial doors

<table>
<thead>
<tr>
<th>Hinge</th>
<th>up to 120 kg (264 lbs.)</th>
</tr>
</thead>
</table>

**Product Features**
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- For flush commercial doors
- Finger protection due to a small gap between door and frame
- Easily adjustable in three dimensions  
  (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings
- UL listed for 20 minute fire door

The specification text can be downloaded from the PRODUCTSELCTOR at www.simonswerk-usa.com.

**Technical Data**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load capacity</td>
<td>120 kg (264 lbs.)</td>
</tr>
<tr>
<td>Length</td>
<td>200 mm (7.874&quot;)</td>
</tr>
<tr>
<td>Width (door)</td>
<td>32 mm (1.260&quot;)</td>
</tr>
<tr>
<td>Width (frame)</td>
<td>32 mm (1.260&quot;)</td>
</tr>
<tr>
<td>Router bit / collar Ø</td>
<td>3/4&quot; / 1&quot;</td>
</tr>
</tbody>
</table>

**Finishes**

Standard Finishes: satin chrome look (F1), satin nickel look (F2), stainless steel look (SSL), rustic umber, bronze metallic, traffic white (RAL 9016), matte deep black (RAL 9005), polished brass, polished nickel, satin nickel, satin chrome  
Special Finishes: grey metallic (F9), bronze finish light, bronze finish, bronze finish dark, other finishes available upon request

**Combinations**

<table>
<thead>
<tr>
<th>Receiver/Reinforcement</th>
<th>Commercial frame</th>
<th>Frame mounted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing frame</td>
<td>TE 540 3D F2/1</td>
<td></td>
</tr>
<tr>
<td>Steel frame</td>
<td>TE 540 3D SZ</td>
<td></td>
</tr>
<tr>
<td>Steel door</td>
<td>TE 540 3D ST</td>
<td></td>
</tr>
<tr>
<td>Aluminum frame</td>
<td>Specified by manufacturer</td>
<td></td>
</tr>
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</table>

**Installation Tools**

<table>
<thead>
<tr>
<th>Jig</th>
<th>Universal milling frame</th>
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</thead>
<tbody>
<tr>
<td>Step 1</td>
<td>routing template No. 5</td>
</tr>
<tr>
<td>Step 2</td>
<td>routing template No. 5</td>
</tr>
</tbody>
</table>

**Application Range**

Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant

**Note**

The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2.1 (see page 46 for further detail).  
For a minimum door panel thickness of 40 mm (1.5/8").  
For fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.  
Square-corner cover plates are available upon request - see page 34.  
The load capacity shall be reduced by 20% when installed in combination with a door closer.
TE 640 3D
For flush high performance commercial doors

Hinge | up to 200 kg (440 lbs.)

Product Features
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- For flush high performance commercial doors
- Finger protection due to a small gap between door and frame
- Easily adjustable in three dimensions
  (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings
- UL listed for 20 minute fire door

The specification text can be downloaded from the PRODUCTSECTOR at www.simonswerk-usa.com.

Technical Data
Load capacity: 200 kg (440 lbs.)
Length: 240 mm (9.449"
Width (door): 32 mm (1.260"
Width (frame): 32 mm (1.260"
Router bit/collar Ø: 3/4" / 1"

Finishes
Standard Finishes: satin chrome look (F1), satin nickel look (F2), stainless steel look (SSL), rustic umber, bronze metallic, traffic white (RAL 9016), matte deep black (RAL 9005), polished brass, polished nickel, satin nickel, satin chrome
Special Finishes: grey metallic (F9), bronze finish light, bronze finish, bronze finish dark, other finishes available upon request

Combinations
Receiver/Reinforcement | Commercial frame | Frame mounted
Casing frame | TE 640 3D FZ/1
Steel frame | TE 640 3D SZ
Steel door | TE 640 3D ST
Aluminum frame | Specified by manufacturer

Installation Tools
Jig | Universal milling frame
Step 1 | routing template No. 5 251062 5
Step 2 | routing template No. 5 251063 5

Application Range
Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant

Note
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail).
For a minimum door panel thickness of 40 mm (1.5/8"
For fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.
Square-corner cover plates are available upon request - see page 34.
The load capacity shall be reduced by 20% when installed in combination with a door closer.
TE 645 3D
For flush high performance commercial doors

### Hinge
<table>
<thead>
<tr>
<th>Load capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 300 kg (661 lbs.)</td>
</tr>
</tbody>
</table>

### Product Features
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- For flush high performance commercial doors
- Finger protection due to a small gap between door and frame
- Easily adjustable in three dimensions
  - (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings
- UL listed for 20 minute fire door

The specification text can be downloaded from the PRODUCTSELCTOR at www.simonswerk-usa.com.

### Technical Data
- **Load capacity**: 300 kg (661 lbs.)
- **Length (door)**: 260 mm (10.236"
- **Length (frame)**: 280 mm (11.024"
- **Width (door)**: 34 mm (1.339"
- **Width (frame)**: 36 mm (1.417"
- **Router bit/collar Ø**: 3/4" / 1"

### Finishes
- Standard Finishes: satin chrome look (F1), stainless steel look (SSL), other finishes available upon request

### Combinations
- Receiver/Reinforcement: Steel frame, Steel door
  - **TE 645 3D SZ**
  - **TE 645 3D ST**

### Installation Tools
- **Jig**: Universal milling frame long
  - **Frame, Step 1**: routing template No. 5 251064 5
  - **Frame, Step 2**: routing template No. 5 251065 5
  - **Door, Step 1**: routing template No. 5 251066 5
  - **Door, Step 2**: routing template No. 5 251067 5

### Application Range
- Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant

### Note
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2.1 (see page 46 for further detail).
Use with a minimum door thickness of 44 mm (1 3/4"). Minimum door thickness of 51 mm (2") when used with steel frames.
Square-corner cover plates are available upon request - see page 34.
The load capacity shall be reduced by 20% when installed in combination with a door closer.
TECTUS® VERSIONS FOR SPECIAL APPLICATIONS

Special architectural planning tasks require individual solutions. The solutions presented here by SIMONSWERK complement the TECTUS product range.

TECTUS® A8
Allows claddings on the door and frame up to 8 mm (5/16") thick
Door panel can be opened a full 180 degrees
3 sizes for load capacities up to 250 kg (551 lbs.)

TECTUS® FVZ
Allows frame to be hidden and door to be flush with wall surfaces by using recessed frame up to 14 mm (0.551")
For load capacities up to 100 kg (220 lbs.)
TECTUS® Energy
Load capacities of 40 kg (88 lbs.) up to 300 kg (661 lbs.)

ROUND CABLE
- Plug connector and open ended cable
- Cable length: 3m (9.8') or 10m (32.8')
- 16 wires with 0.8 A per wire
- Up to 50 V
- Wire gauge 14 square mm (26 AWG)

UNIVERSAL ADAPTER
- Plug connector and direct screw terminal block connector
- 3 x 3.2 A and 4 x 0.8 A power
- Up to 50 V
- Wire gauge 14 square mm (26 AWG)

CUSTOM ADAPTERS
- Available upon request
Today’s modern and efficient buildings often require the ability to control and operate doors remotely. This requires the transfer of electrical power and information from door frames to door panels. The TECTUS Energy Series provides a sophisticated way to utilize this technology when card readers, access and door control systems, electrified locks, monitoring systems, and multimedia components are installed. The cable with its 16 wires is completely concealed behind the hinge arms to prevent unauthorized tampering and has successfully passed a 1 million cycle test. The TECTUS Energy hinge is available in a large variety of sizes to accommodate different door panel weights. Different adapters for simple reverse polarity protected plug connection are available.
TE 240 3D Energy Kit
With integrated and continuous energy transfer for flush residential doors - with new snap-fitting connection

<table>
<thead>
<tr>
<th>Hinge</th>
<th>energy transfer</th>
<th>up to 40 kg (88 lbs.)</th>
</tr>
</thead>
</table>

**Product Features**
- Multiple connection adapter options
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- Easily adjustable in three dimensions
  - (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.5 mm (0.059"))
- Maintenance-free slide bearings
- Finger protection due to a small gap between door and frame

Note: The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail). For a minimum door panel thickness of 26 mm (1.024"), Kit includes two 3m (118.110") round cables.

**Technical Data**
- Load capacity 40 kg (88 lbs.)
- Length 155 mm (6.102")
- Width (door) 18 mm (0.709")
- Width (frame) 21 mm (0.827")
- Router bit / collar Ø 1/2" / 1"
- No. of wires/Wire cross section 16/0.14 mm²
- Max. voltage 50 V (for voltages of 24 V or higher only with safeguarded power supply)
- Max. current 0.8 A (per wire)

**Combinations**
- Receiver/Reinforcement
  - Commercial frame
  - Frame mounted
  - Casing frame: TE 240 3D FZ/1
  - Steel frame: TE 240 3D SZ
  - Steel door: TE 240 3D ST
  - Aluminum frame: Specified by manufacturer

**Accessories**
- Round Cable 10m (393.701")
- Custom Adapter

**Installation Tools** (in addition to templates for standard versions)
- Routing for raceway: routing template No. 5 251081 S

**Finishes**
satin chrome look (F1), stainless steel look (SSL), other finishes available upon request
TE 340 3D Energy Kit
With integrated and continuous energy transfer for flush residential doors - with new snap-fitting connection

<table>
<thead>
<tr>
<th>Hinge</th>
<th>energy transfer</th>
<th>up to 80 kg (176 lbs.)</th>
</tr>
</thead>
</table>

Product Features
- Multiple connection adapter options
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- Easily adjustable in three dimensions (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings
- Finger protection due to a small gap between door and frame
The specification text can be downloaded from the PRODUCTSELECTOR at www.simonswerk-usa.com.

Technical Data
- Load capacity: 80 kg (176 lbs.)
- Length: 160 mm (6.299")
- Width (door): 28 mm (1.102")
- Width (frame): 28 mm (1.102")
- Router bit / collar Ø: 3/4" / 1"
- No. of wires/Wire cross section: 16/0.14 mm²
- Max. voltage: 50 V (for voltages of 24 V or higher only with safeguarded power supply)
- Max. current: 0.8 A (per wire)

Finishes
satin chrome look (F1), stainless steel look (SSL), other finishes available upon request

Combinations
- Receiver/Reinforcement: Commercial frame, Frame mounted
- Casing frame: TE 340 3D FZ/1
- Steel frame: TE 340 3D SZ
- Steel door: TE 340 3D ST
- Aluminum frame: Specified by manufacturer

Accessories
- Round Cable 10m (393.701")
- Custom Adapter

Installation Tools (in addition to templates for standard versions)
- Routing for raceway: routing template No. 5 251082 5

Application Range
Fire Resistant, Smoke Resistant, Forced Entry Resistant

Note
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail).
For a minimum door panel thickness of 38 mm (1-1/2").
For fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.
Square-corner cover plates are available upon request - see page 34.
Please specify accessories when ordering.
Kit includes two 3m (118 110") round cables.
TE 526 3D Energy Kit

Manufactured of solid stainless steel with integrated and continuous energy transfer for flush commercial doors - with new snap-fitting connection

<table>
<thead>
<tr>
<th>Hinge</th>
<th>Energy transfer</th>
<th>up to 120 kg (264 lbs.)</th>
</tr>
</thead>
</table>

Product Features

- Multiple connection adapter options
- Solid non magnetic stainless steel (304 series)
- (marine grade 316 series upon request)
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- Easily adjustable in three dimensions
  - (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings

The specification text can be downloaded from the PRODUCTSELECTOR at www.simonswerk-usa.com.

Technical Data

- Load capacity: 120 kg (264 lbs.)
- Length: 155 mm (6.102")
- Width (door/frame): 26 mm (1.024")
- Router bit/collar Ø: 3/4" / 1"
- No. of wires/Wire cross section: 16/0.14 mm²
- Max. voltage: 50 V (for voltages of 24 V or higher only with safeguarded power supply)
- Max. current: 0.8 A (per wire)

Finishes

satin stainless steel

Combinations

<table>
<thead>
<tr>
<th>Receiver/Reinforcement</th>
<th>Commercial frame</th>
<th>Frame mounted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing frame</td>
<td>TE 526 3D FZ/1</td>
<td></td>
</tr>
<tr>
<td>Steel frame</td>
<td>TE 526 3D SZ</td>
<td></td>
</tr>
<tr>
<td>Steel door</td>
<td>TE 526 3D ST</td>
<td></td>
</tr>
<tr>
<td>Aluminum frame</td>
<td>Specified by manufacturer</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Round Cable 10m (393.701&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Custom Adapter</td>
</tr>
</tbody>
</table>

Installation Tools (in addition to templates for standard versions)

<table>
<thead>
<tr>
<th>Routing for raceway</th>
<th>Routing template</th>
<th>No. 5 251082 S</th>
</tr>
</thead>
</table>

Application Range

- Fire Resistant
- Smoke Resistant
- Soundproof
- Forced Entry Resistant
- High Corrosion Resistant

Note

The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail).
For a minimum door panel thickness of 34 mm (1.3/8").
For fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.
Square-corner cover plates are available upon request - see page 34.
Kit includes two 3m (118 110") round cables.
TECTUS®

TE 527 3D Energy Kit
Manufactured of mild steel with integrated and continuous energy transfer for flush commercial doors - with new snap-fitting connection

<table>
<thead>
<tr>
<th>Hinge</th>
<th>energy transfer</th>
<th>up to 120 kg (264 lbs.)</th>
</tr>
</thead>
</table>

Product Features
- Multiple connection adapter options
- Mild steel
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- Easily adjustable in three dimensions
  (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings

The specification text can be downloaded from the PRODUCTSELECTOR at www.simonswerk-usa.com.

Technical Data
- Load capacity: 120 kg (264 lbs.)
- Length: 155 mm (6.102"
- Width (door/frame): 26 mm (1.024"
- Router bit/collar Ø: 3/4" / 1"
- No. of wires/Wire cross section: 16/0.14 mm²
- Max. voltage: 50 V (for voltages of 24 V or higher only with safeguarded power supply)
- Max. current: 0.8 A (per wire)

Finishes
Standard Finishes: stainless steel look (SSL), other finishes available upon request

Combinations
- Receiver/Reinforcement: Commercial frame, Frame mounted
- Casing frame: TE 527 3D FZ/1
- Steel frame: TE 527 3D SZ
- Steel door: TE 527 3D ST
- Aluminum frame: Specified by manufacturer

Accessories
- Round Cable 10m (393.701")
- Custom Adapter

Installation Tools (in addition to templates for standard versions)
- Routing for raceway: routing template No. 5 251082 5

Application Range
Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant, High Corrosion Resistant

Note
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail).
For a minimum door panel thickness of 34 mm (1-3/8").
For fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.
Square-corner cover plates are available upon request - see page 34.
Kit includes two 3m (118.110") round cables.
TE 540 3D Energy Kit
With integrated and continuous energy transfer for flush commercial doors - with new snap-fitting connection

| Hinge            | energy transfer | up to 120 kg (264 lbs.) |

Product Features
- Multiple connection adapter options
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- Easily adjustable in three dimensions
  (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings

The specification text can be downloaded from the PRODUCTSELECTION at www.simonswerk-usa.com.

Technical Data
- Load capacity: 120 kg (264 lbs.)
- Length: 200 mm (7.874"
- Width (door): 32 mm (1.260")
- Width (frame): 32 mm (1.260")
- Router bit / collar Ø: 3/4" / 1"
- No. of wires/Wire cross section: 16/0.14 mm²
- Max. voltage: 50 V (for voltages of 24 V or higher only with safeguarded power supply)
- Max. current: 0.8 A (per wire)

Finishes
- satin chrome look (F1), stainless steel look (SSL), other finishes available upon request

Combinations
- Receiver/Reinforcement: Commercial frame, Frame mounted
  - Casing frame: TE 540 3D FZ/1
  - Steel frame: TE 540 3D SZ
  - Steel door: TE 540 3D ST
  - Aluminum frame: Specified by manufacturer

Accessories
- Round Cable 10m (393.701"
- Custom Adapter

Installation Tools
- (in addition to templates for standard versions)
  - Routing for raceway: routing template
  - No. S 251082 5

Application Range
- Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant

Note
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail).
For a minimum door panel thickness of 40 mm (1-5/8").
For fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.
Square-corner cover plates are available upon request - see page 34.
Kit includes two 3m (118.110") round cables.
TEC'TUS®

TE 640 3D Energy Kit
With integrated and continuous energy transfer for flush high performance commercial doors - with new snap-fitting connection

<table>
<thead>
<tr>
<th>Hinge</th>
<th>energy transfer</th>
<th>up to 200 kg (440 lbs.)</th>
</tr>
</thead>
</table>

Product Features
- Multiple connection adapter options
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- Easily adjustable in three dimensions
  (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings

The specification text can be downloaded from the PRODUCTSELECTOR at www.simonswerk-usa.com.

Technical Data
- Load capacity: 200 kg (440 lbs.)
- Length: 240 mm (9.449"
- Width (door): 32 mm (1.260"
- Width (frame): 32 mm (1.260"
- Router bit / collar Ø: 3/4" / 1"
- No. of wires/Wire cross section: 16/0.14 mm²
- Max. voltage: 50 V (for voltages of 24 V or higher only with safeguarded power supply)
- Max. current: 0.8 A (per wire)

Finishes
- satin chrome look (F1), stainless steel look (SSL), other finishes available upon request

Combinations
- Receiver/Reinforcement
  - Commercial frame
  - Frame mounted
- Casing frame
  - TE 640 3D FZ/1
- Steel frame
  - TE 640 3D SZ
- Steel door
  - TE 640 3D ST
- Aluminum frame
  - Specified by manufacturer

Accessories
- Round Cable 10m (393.701"
- Custom Adapter

Installation Tools (in addition to templates for standard versions)
- Routing for raceway
  - routing template
  - No. 5 251082 5

Application Range
- Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant

Note
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail).
For a minimum door panel thickness of 40 mm (1-5/8”).
For fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.
Square-corner cover plates are available upon request - see page 34.
Kit includes two 3m (118.110”) round cables.
TE 645 3D Energy Kit
With integrated and continuous energy transfer for flush high performance commercial doors - with new snap-fitting connection

<table>
<thead>
<tr>
<th>Hinge</th>
<th>energy transfer</th>
<th>up to 300 kg (661 lbs.)</th>
</tr>
</thead>
</table>

Product Features
- Multiple connection adapter options
- Completely concealed hinge system
- For wood, steel or aluminum frames
- Easily adjustable in three dimensions
  (side +/- 3.0 mm (0.118”), height +/- 3.0 mm (0.118”), compression +/- 1.0 mm (0.039”))
- Maintenance-free slide bearings

The specification text can be downloaded from the PRODUCTSELCTOR at www.simonswerk-usa.com.

Technical Data
- Load capacity: 300 kg (661 lbs.)
- Length (door): 260 mm (10.236”)
- Length (frame): 280 mm (11.024”)
- Width (door): 34 mm (1.339”)
- Width (frame): 36 mm (1.417”)
- Router bit / collar Ø: 3/4” / 1”
- No. of wires/Wire cross section: 16/0.14 mm²
- Max. voltage: 50 V (for voltages of 24 V or higher only with safeguarded power supply)
- Max. current: 0.8 A (per wire)

Finishes
- satin chrome look (F1), stainless steel look (SSL), other finishes available upon request

Combinations
- Receiver/Reinforcement
  - Steel frame: TE 645 3D SZ
  - Steel door: TE 645 3D ST

- Accessories
  - Round Cable 10m (393.701”)
  - Custom Adapter

Installation Tools (in addition to templates for standard versions)
- Routing for raceway
- routing template: No. 5 251082 5

Application Range
- Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant

Note
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail). Use with a minimum door thickness of 44 mm (1 3/4”), but can also be used with higher thicknesses.
Minimum door thickness of 51 mm (2”) when used with steel frames. Square-corner cover plates are available upon request - see page 34. Kit includes two 3m (118 110”) round cables.
The new concealed TECTUS TE 541 3D FVZ hinge allows the frame to be recessed inside a finished wall for a door that is flush with the wall’s surface. Due to the capability that the entire frame face can be covered with solid materials such as 1/2” drywall, rather than e.g. a single layer of plaster, the issue of surface cracking has been eliminated. The frame facing can be recessed up to 14 mm (0.551”) creating even more architectural possibilities for straight-lined, flush surface interior design. These hinges present a stunning architectural integration of door and wall elements. This hinge has the same amenities as existing models of the product brand TECTUS.
TE 541 3D FVZ
For flush residential and commercial doors with recessed frame facings

Hinge | up to 100 kg (220 lbs.)

Product Features
- FVZ = for 14.0 mm (0.551") recessed frame facings
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- For flush residential and commercial doors
- Finger protection due to a small gap between door and frame
- Easily adjustable in three dimensions (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings

The specification text can be downloaded from the PRODUCTSELECTOR at www.simonswerk-usa.com.

Technical Data
| Load capacity | 100 kg (220 lbs.) |
| Length       | 185 mm (7.283") |
| Width (door) | 28 mm (1.102") |
| Width (frame)| 28 mm (1.102") |
| Router bit/collar Ø | 3/4" / 1" |

Finishes
satin chrome look (F1), satin nickel look (F2), stainless steel look (SSL), rustic umber, bronze metallic, traffic white (RAL 9016), matte deep black (RAL 9005), polished brass, polished nickel, satin nickel, satin chrome

Combinations
| Receiver/Reinforcement | Casing frame | TE 541 3D FVZ FZ/1 |
| Steel frame | TE 541 3D FVZ SZ |
| Steel door | TE 541 3D FVZ ST |

Installation Tools
| Jig | Universal milling frame |
| Frame, Step 1 | routing template | No. 5 251071 S |
| Frame, Step 2 | routing template | No. 5 251072 S |
| Frame, Step 3 | routing template | No. 5 251068 S |
| Door, Step 1 | routing template | No. 5 251071 S |
| Door, Step 2 | routing template | No. 5 251072 S |
| Door, Step 3 | routing template | No. 5 251073 S |

Application Range
Fire Resistant, Smoke Resistant, Soundproof

Note
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail).
Typical use with door thickness of 44 mm (1 3/4"), but can also be used with higher thicknesses.
The TECTUS A8 models offer concealed hinges for applications where in the past it was only possible to use pivots to hang a door. The A8 versions allow a door to visually disappear into a wall with many different kinds of claddings such as mirrors, laminates and marble up to 8 mm (0.315") in thickness. The TECTUS A8 hinges give designers new opportunities for integrating the door panel into a holistic room concept.

Load capacities up to 250 kg (551 lbs.)

For claddings up to 8 mm (0.315") on door and frame

The use of different cladding materials such as wood, glass, etc. enables the door to visually disappear within a wall.
**TE 540 3D A8**

For flush commercial doors with claddings up to 8 mm (0.315")

<table>
<thead>
<tr>
<th>Hinge</th>
<th>up to 100 kg (220 lbs.)</th>
</tr>
</thead>
</table>

**Product Features**
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- Easily adjustable in three dimensions
  (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings
- UL listed for 20 minute fire door

The specification text can be downloaded from the PRODUCTSELECTION at www.simonswerk-usa.com.

**Technical Data**

<table>
<thead>
<tr>
<th>Load capacity</th>
<th>100 kg (220 lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>200 mm (7.874&quot;)</td>
</tr>
<tr>
<td>Width (door) per 32/37 mm (1.260/1.457&quot;)</td>
<td></td>
</tr>
<tr>
<td>Width (frame) per 32/37 mm (1.260/1.457&quot;)</td>
<td></td>
</tr>
<tr>
<td>Router bit / collar Ø</td>
<td>3/4&quot; / 1&quot;</td>
</tr>
</tbody>
</table>

**Finishes**

Standard Finishes: satin chrome look (F1), satin nickel look (F2), stainless steel look (SSL), rustic umber, bronze metallic, traffic white (RAL 9016), matte deep black (RAL 9005), polished brass, polished nickel, satin nickel, satin chrome

Special Finishes: grey metallic (F9), bronze finish light, bronze finish, bronze finish dark, other finishes, available upon request

**Combinations**

Receiver/Reinforcement | Commercial frame | Frame mounted
Casing frame            | TE 540 3D FZ/1  |
Steel frame             | TE 540 3D A8 SZ |
Steel door              | TE 540 3D A8 ST |
Aluminum frame          | Specified by manufacturer |

**Installation Tools**

<table>
<thead>
<tr>
<th>Jig</th>
<th>Universal milling frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1</td>
<td>routing template</td>
</tr>
<tr>
<td></td>
<td>No. 5 251060 S</td>
</tr>
<tr>
<td>Step 2</td>
<td>routing template</td>
</tr>
<tr>
<td></td>
<td>No. 5 251061 S</td>
</tr>
<tr>
<td>Step 3</td>
<td>routing template</td>
</tr>
<tr>
<td></td>
<td>No. 5 251069 S</td>
</tr>
<tr>
<td>Step 3 (without cladding)</td>
<td>routing template</td>
</tr>
<tr>
<td></td>
<td>No. 5 251096 S</td>
</tr>
</tbody>
</table>

**Application Range**

Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant

**Note**

The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail).

For a minimum door panel thickness of 40 mm (1-5/8" plus cladding).

Fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.

Cover plates for doors without cladding are available upon request - see page 33.

Square-corner cover plates are available upon request - see page 34.
TECTUS®

TE 640 3D A8
For flush high performance commercial doors with claddings up to 8 mm (0.315”)

Hinge | up to 160 kg (352 lbs.)

Product Features
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- Easily adjustable in three dimensions (side +/- 3.0 mm (0.118”), height +/- 3.0 mm (0.118”), compression +/- 1.0 mm (0.039”)
- Maintenance-free slide bearings
- UL listed for 20 minute fire door

The specification text can be downloaded from the PRODUCTSELCTOR at www.simonswerk-usa.com.

Technical Data
Load capacity 160 kg (352 lbs.)
Length 240 mm (9.449”)
Width (door) 32/37 mm (1.260/1.457”)
Width (frame) 32/37 mm (1.260/1.457”)
Router bit / collar Ø 3/4” / 1”

Finishes
Standard Finishes: satin chrome look (F1), satin nickel look (F2), stainless steel look (SSL), rustic umber, bronze metallic, traffic white (RAL 9016), matte deep black (RAL 9005), polished brass, polished nickel, satin nickel, satin chrome
Special Finishes: grey metallic (F9), bronze finish light, bronze finish , bronze finish dark, other finishes available upon request

Combinations
Receiver/Reinforcement Commercial frame Frame mounted
Casing frame TE 640 3D FZ/1
Steel frame TE 640 3D A8 SZ
Steel door TE 640 3D A8 ST
Aluminum frame Specified by manufacturer

Installation Tools
Jig Universal milling frame
Step 1 routing template No. 5 251062 S
Step 2 routing template No. 5 251063 S
Step 3 routing template No. 5 251069 S
Step 3 (without cladding) routing template No. 5 251095 S

Application Range
Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant

Note
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail).
For a minimum door panel thickness of 40 mm (1-5/8” plus cladding).
Fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.
Cover plates for doors without cladding are available upon request - see page 33.
Square-corner cover plates are available upon request - see page 34.
TE 626 3D A8
Manufactured of solid steel for flush high performance commercial doors with claddings up to 8 mm (0.315”)

| Hinge | up to 250 kg (551 lbs.) |

Product Features
- Claddings up to 8 mm (0.315”)
- Solid non magnetic stainless steel (304 series)
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- Easily adjustable in three dimensions
  (side +/- 3.0 mm (0.118”), height +/- 3.0 mm (0.118”), compression +/- 1.0 mm (0.039”))
- Maintenance-free slide bearings
- UL listed for 180 minute fire door

The specification text can be downloaded from the PRODUCTSELECTOR at www.simonswerk-usa.com.

Technical Data
- Load capacity: 250 kg (551 lbs.)
- Length: 200 mm (7.874”)
- Width (door): 32 mm (1.260”)
- Width (frame): 32 mm (1.260”)
- Router bit / collar Ø: 3/4” / 1”

Finishes
- satin stainless steel (304 series), other finishes available upon request

Combinations
- Receiver/Reinforcement
  - Commercial frame
  - Casing frame: TE 626 3D A8 FZ
  - Steel frame: TE 626 3D A8 S2
  - Steel door: TE 626 3D A8 ST
  - Aluminum frame: Specified by manufacturer

- Accessories
  - Cover plate set: TE 540/640 3D A8 with radius

Installation Tools
- Jig: Universal milling frame long
  - Step 1: routing template No. 5 251062 S
  - Step 2: routing template No. 5 251063 S
  - Step 3: routing template No. 5 251069 S
  - Step 3 (without cladding): routing template No. 5 251095 S

Application Range
- Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant

Note
- The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio 2:1 (see page 46 for further detail).
- For a minimum door panel thickness of 60 mm (1-5/8” plus cladding).
- Fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material. Cover plates for doors without cladding are available upon request – see page 33.
- Square-corner cover plates are available upon request - see page 34.
TE 540 3D A8 Energy Kit

With integrated and continuous energy transfer for flush commercial doors with claddings of up to 8 mm (0.315") - with new snap-fitting connection

Hinge

Product Features
- Multiple connection adapter options
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- Easily adjustable in three dimensions
  (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings

Installation Tools

Routing for raceway  routing template  No. 5 251082 5

Technical Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load capacity</td>
<td>100 kg (220 lbs.)</td>
</tr>
<tr>
<td>Length</td>
<td>200 mm (7.874&quot;)</td>
</tr>
<tr>
<td>Width (door)</td>
<td>per 32/37 mm (1.260/1.457&quot;)</td>
</tr>
<tr>
<td>Width (frame)</td>
<td>per 32/37 mm (1.260/1.457&quot;)</td>
</tr>
<tr>
<td>Router bit / collar Ø</td>
<td>3/4&quot; / 1&quot;</td>
</tr>
<tr>
<td>No. of wires / Wire cross section</td>
<td>16/0.14 mm²</td>
</tr>
<tr>
<td>Max. voltage</td>
<td>50 V (for voltages of 24 V or higher only with safeguarded power supply)</td>
</tr>
<tr>
<td>Max. current</td>
<td>0.8 A (per wire)</td>
</tr>
</tbody>
</table>

Finishes

Satin chrome look (F1), stainless steel look (SSL), other finishes available upon request

Combinations

Receiver/Reinforcement  Commercial frame  Frame mounted
Casing frame  TE 540 3D FZ/1
Steel frame  TE 540 3D A8 SZ
Steel door  TE 540 3D A8 ST
Aluminum frame  Specified by manufacturer

Accessories

Round Cable 10 m (39.370")
Custom Adapter

Installation Tools

(in addition to templates for standard versions)
Routing for raceway  routing template  No. 5 251082 5

Application Range

Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant

Note

The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail).
For a minimum door panel thickness of 40 mm (1-5/8” plus cladding).
Fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.
Cover plates for doors without cladding are available upon request - see page 33.
Square-corner cover plates are available upon request - see page 34.
Kit includes two 3m (118.110") round cables.
TE 640 3D A8 Energy Kit

With integrated and continuous energy transfer for flush high performance commercial doors with claddings of up to 8 mm (0.315") - with new snap-fitting connection

Hinge up to 160 kg (352 lbs.)

Product Features
- Multiple connection adapter options
- Completely concealed hinge system
- For wood, steel or aluminum door panels and frames
- Easily adjustable in three dimensions (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings

The specification text can be downloaded from the PRODUCTSELCTOR at www.simonswerk-usa.com.

Technical Data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load capacity</td>
<td>160 kg (352 lbs.)</td>
</tr>
<tr>
<td>Length</td>
<td>240 mm (9.449&quot;)</td>
</tr>
<tr>
<td>Width (door)</td>
<td>per 32/37 mm (1.260/1.457&quot;)</td>
</tr>
<tr>
<td>Width (frame)</td>
<td>per 32/37 mm (1.260/1.457&quot;)</td>
</tr>
<tr>
<td>Router bit/collar Ø</td>
<td>3/4&quot; / 1&quot;</td>
</tr>
<tr>
<td>No. of wires/Wire cross section</td>
<td>16/0.14 mm²</td>
</tr>
<tr>
<td>Max. voltage</td>
<td>50 V (for voltages of 24 V or higher only with safeguarded power supply)</td>
</tr>
<tr>
<td>Max. current</td>
<td>0.8 A (per wire)</td>
</tr>
</tbody>
</table>

Finishes
satin chrome look (F1), stainless steel look (SSL), other finishes available upon request

Combinations

<table>
<thead>
<tr>
<th>Receiver/Reinforcement</th>
<th>Commercial frame</th>
<th>Frame mounted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial frame</td>
<td></td>
<td>TE 640 3D FZ1</td>
</tr>
<tr>
<td>Casing frame</td>
<td></td>
<td>TE 640 3D A8 SZ</td>
</tr>
<tr>
<td>Steel frame</td>
<td></td>
<td>TE 640 3D A8 ST</td>
</tr>
<tr>
<td>Steel door</td>
<td></td>
<td>Specified by manufacturer</td>
</tr>
<tr>
<td>Aluminum frame</td>
<td></td>
<td>Round Cable 10m (393.701&quot;)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Custom Adapter</td>
</tr>
</tbody>
</table>

Installation Tools (in addition to templates for standard versions)

Routing for raceway routing template No. 5 251082 S

Application Range
Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant

Note
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail).
For a minimum door panel thickness of 40 mm (1-5/8" plus cladding).
Fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.
Cover plates for doors without cladding are available upon request - see page 33.
Square-corner cover plates are available upon request - see page 34.
Kit includes two 3m (118 110") round cables.
TE 626 3D A8 Energy Kit

Manufactured of solid steel with integrated and continuous energy transfer for flush high performance commercial doors with claddings up to 8 mm (0.315") – with new snap-fitting connection

Hinge | up to 250 kg (551 lbs.)

Product Features
- Solid non magnetic stainless steel (304 series)
- Multiple connection adapter options
- For wood, steel or aluminum door panels and frames
- Easily adjustable in three dimensions
  (side +/- 3.0 mm (0.118"), height +/- 3.0 mm (0.118"), compression +/- 1.0 mm (0.039"))
- Maintenance-free slide bearings
- UL listed for 180 minute fire door

The specification text can be downloaded from the PRODUCTSELCTOR at www.simonswerk-usa.com.

Technical Data
- Load capacity: 250 kg (551 lbs.)
- Length: 200 mm (7.874")
- Width (door): 32 mm (1.260")
- Width (frame): 32 mm (1.260")
- Router bit / collar Ø: 3/4" / 1"
- No. of wires/Wire cross section: 16/0.14 mm²
- Max. voltage: 50 V (for voltages of 24 V or higher only with safeguarded power supply)
- Max. current: 0.8 A (per wire)

Finishes
- Satin stainless steel (304 series), other finishes available upon request

Combinations
- Receiver/Reinforcement: Commercial frame, Frame mounted
- Casing frame: TE 626 3D A8 FZ
- Steel frame: TE 626 3D A8 SZ
- Steel door: TE 626 3D A8 ST
- Aluminum frame: Specified by manufacturer

Accessories
- Round Cable 10m (393.701")
- Custom adapter

Installation Tools
- (in addition to templates for standard versions)
- Routing for raceway routing template: No. 5 251082 5

Application Range
- Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant

Note
- The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio 2:1 (see page 46 for further detail).
- For a minimum door panel thickness of 40 mm (1-5/8" plus cladding).
- Fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.
- Cover plates for doors without cladding are available upon request – see page 33.
- Square-corner cover plates are available upon request - see page 34.
- Kit includes two 3m (118 110") round cables.
Cover plate set TECTUS A8 radius
Covers door prep for use with wide-throw A8 hinges when installed without cladding

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Cover plate set</th>
</tr>
</thead>
</table>

**Finishes**
Standard Finishes: satin chrome look (F1), stainless steel look (SSL), other finishes available upon request

**Combinations**
<table>
<thead>
<tr>
<th>Hinge</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 540 3D A8</td>
<td></td>
</tr>
<tr>
<td>TE 626 3D A8</td>
<td></td>
</tr>
<tr>
<td>TE 640 3D A8</td>
<td></td>
</tr>
<tr>
<td>TE 540 3D A8 Energy Kit</td>
<td></td>
</tr>
<tr>
<td>TE 626 3D A8 Energy Kit</td>
<td></td>
</tr>
<tr>
<td>TE 640 3D A8 Energy Kit</td>
<td></td>
</tr>
</tbody>
</table>

**Note**
The application of A8 hinges installed without cladding provides greater unobstructed clearance e.g. trim moldings and baseboards.
Please specify the exact hinge model. Set includes 2 plates for either door panel or frame side.
# Square-corner cover plates

Add on part that accommodates corner door and frame preparation

## Accessories

<table>
<thead>
<tr>
<th>Cover plate set</th>
</tr>
</thead>
</table>

## Product Features

- Easy field replacement for the radius corner plate
- Aids in preparation for hollow metal door projects
- Contemporary, high-end hand-crafted appearance

## Finishes

- satin chrome look (F1), satin nickel look (F2), stainless steel look (SSL), rustic umber, bronze metallic, traffic white (RAL 9016), matte deep black (RAL 9005), polished brass, polished nickel, satin nickel, satin chrome

## Combinations

<table>
<thead>
<tr>
<th>Hinge</th>
<th>Energy transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 340 3D</td>
<td>TE 340 3D Energy Kit</td>
</tr>
<tr>
<td>TE 526 3D</td>
<td>TE 526 3D Energy Kit</td>
</tr>
<tr>
<td>TE 527 3D</td>
<td>TE 527 3D Energy Kit</td>
</tr>
<tr>
<td>TE 540 3D</td>
<td>TE 540 3D Energy Kit</td>
</tr>
<tr>
<td>TE 640 3D</td>
<td>TE 640 3D Energy Kit</td>
</tr>
<tr>
<td>TE 645 3D</td>
<td>TE 645 3D Energy Kit</td>
</tr>
<tr>
<td>TE 540 3D A8</td>
<td>TE 540 3D A8 Energy Kit</td>
</tr>
<tr>
<td>TE 640 3D A8</td>
<td>TE 640 3D A8 Energy Kit</td>
</tr>
<tr>
<td>TE 626 3D A8</td>
<td>TE 626 3D A8 Energy Kit</td>
</tr>
</tbody>
</table>

## Note

Please specify the exact hinge model. Set includes 2 plates for either door panel or frame side.
**Receiver SZ**

Reinforcement for steel and stainless steel frames

**Fixing**

Steel frame

**Finishes**

galvanized, stainless steel

**Combinations**

<table>
<thead>
<tr>
<th>Hinge</th>
<th>TE 240 3D</th>
<th>TE 340 3D</th>
<th>TE 526 3D</th>
<th>TE 527 3D</th>
<th>TE 540 3D</th>
<th>TE 541 3D FVZ</th>
<th>TE 640 3D</th>
<th>TE 645 3D</th>
<th>TE 540 3D A8</th>
<th>TE 640 3D A8</th>
<th>TE 626 3D A8</th>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note**

Please specify the exact hinge model when ordering.
TE 540 3D receiver shown. Drawings for other receiver sizes available upon request.

**Model Variants**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 240 3D</td>
<td>205 mm (8.071&quot;)</td>
<td>27.4 mm (1.079&quot;)</td>
</tr>
<tr>
<td>TE 340 3D</td>
<td>225 mm (8.858&quot;)</td>
<td>39.5 mm (1.555&quot;)</td>
</tr>
<tr>
<td>TE 526 3D</td>
<td>205 mm (8.071&quot;)</td>
<td>33.5 mm (1.319&quot;)</td>
</tr>
<tr>
<td>TE 527 3D</td>
<td>205 mm (8.071&quot;)</td>
<td>33.5 mm (1.319&quot;)</td>
</tr>
<tr>
<td>TE 540 3D</td>
<td>248 mm (9.764&quot;)</td>
<td>38.5 mm (1.516&quot;)</td>
</tr>
<tr>
<td>TE 541 3D FVZ</td>
<td>235 mm (9.252&quot;)</td>
<td>34.5 mm (1.358&quot;)</td>
</tr>
<tr>
<td>TE 640 3D</td>
<td>288 mm (11.339&quot;)</td>
<td>38.5 mm (1.516&quot;)</td>
</tr>
<tr>
<td>TE 645 3D</td>
<td>328 mm (12.913&quot;)</td>
<td>42.5 mm (1.673&quot;)</td>
</tr>
<tr>
<td>TE 540 3D A8</td>
<td>250 mm (9.843&quot;)</td>
<td>38.5 mm (1.516&quot;)</td>
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<tr>
<td>TE 640 3D A8</td>
<td>290 mm (11.417&quot;)</td>
<td>38.5 mm (1.516&quot;)</td>
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<tr>
<td>TE 626 3D A8</td>
<td>290 mm (11.417&quot;)</td>
<td>38.5 mm (1.516&quot;)</td>
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</table>
**TECTUS®**

**Receiver ST**
Reinforcement for steel and stainless steel door panels

<table>
<thead>
<tr>
<th>Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>galvanized, stainless steel</td>
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</table>

**Combinations**

<table>
<thead>
<tr>
<th>Hinge</th>
<th>TE 240 3D</th>
<th>TE 340 3D</th>
<th>TE 526 3D</th>
<th>TE 527 3D</th>
<th>TE 540 3D</th>
<th>TE 541 3D FVZ</th>
<th>TE 640 3D</th>
<th>TE 645 3D</th>
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<tr>
<td>energy transfer</td>
<td>TE 240 3D Energy Kit</td>
<td>TE 340 3D Energy Kit</td>
<td>TE 526 3D Energy Kit</td>
<td>TE 527 3D Energy Kit</td>
<td>TE 540 3D Energy Kit</td>
<td>TE 541 3D FVZ Energy Kit</td>
<td>TE 640 3D Energy Kit</td>
<td>TE 645 3D Energy Kit</td>
</tr>
<tr>
<td>TE 540 3D A8 Energy Kit</td>
<td>TE 640 3D A8 Energy Kit</td>
<td>TE 626 3D A8 Energy Kit</td>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

**Model Variants**

<table>
<thead>
<tr>
<th>Model Variants</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 240 3D</td>
<td>200 mm (7.874&quot;)</td>
<td>23 mm (0.906&quot;)</td>
<td>17 mm (0.669&quot;)</td>
</tr>
<tr>
<td>TE 340 3D</td>
<td>225 mm (8.858&quot;)</td>
<td>33.3 mm (1.311&quot;)</td>
<td>27.3 mm (1.075&quot;)</td>
</tr>
<tr>
<td>TE 526 3D</td>
<td>205 mm (8.071&quot;)</td>
<td>32 mm (1.260&quot;)</td>
<td>26 mm (1.024&quot;)</td>
</tr>
<tr>
<td>TE 527 3D</td>
<td>205 mm (8.071&quot;)</td>
<td>32 mm (1.260&quot;)</td>
<td>26 mm (1.024&quot;)</td>
</tr>
<tr>
<td>TE 540 3D</td>
<td>253 mm (9.961&quot;)</td>
<td>37.3 mm (1.469&quot;)</td>
<td>31.2 mm (1.232&quot;)</td>
</tr>
<tr>
<td>TE 541 3D FVZ</td>
<td>238 mm (9.370&quot;)</td>
<td>33.3 mm (1.311&quot;)</td>
<td>27.3 mm (1.075&quot;)</td>
</tr>
<tr>
<td>TE 640 3D</td>
<td>300 mm (11.811&quot;)</td>
<td>38.3 mm (1.508&quot;)</td>
<td>31.3 mm (1.232&quot;)</td>
</tr>
<tr>
<td>TE 645 3D</td>
<td>312 mm (12.283&quot;)</td>
<td>41.3 mm (1.626&quot;)</td>
<td>33.3 mm (1.311&quot;)</td>
</tr>
<tr>
<td>TE 540 3D A8</td>
<td>253 mm (9.961&quot;)</td>
<td>37.3 mm (1.469&quot;)</td>
<td>31.2 mm (1.232&quot;)</td>
</tr>
<tr>
<td>TE 640 3D A8</td>
<td>300 mm (11.811&quot;)</td>
<td>38.3 mm (1.508&quot;)</td>
<td>31.3 mm (1.232&quot;)</td>
</tr>
<tr>
<td>TE 626 3D A8</td>
<td>300 mm (11.811&quot;)</td>
<td>38.3 mm (1.508&quot;)</td>
<td>31.3 mm (1.232&quot;)</td>
</tr>
</tbody>
</table>

**Note**
Please specify the exact hinge model when ordering. 
TE 540 3D receiver shown. Drawings for other receiver sizes available upon request. 
Includes hinge mounting screws.
**TE 240 3D**
Receiver/Reinforcement steel frame: TE 240 3D SZ
Receiver/Reinforcement steel door: TE 240 3D ST

**TE 340 3D**
Receiver/Reinforcement steel frame: TE 340 3D SZ
Receiver/Reinforcement steel door: TE 340 3D ST

**TE 526 3D**
Receiver/Reinforcement steel frame: TE 526 3D SZ
Receiver/Reinforcement steel door: TE 526 3D ST

**TE 527 3D**
Receiver/Reinforcement steel frame: TE 527 3D SZ
Receiver/Reinforcement steel door: TE 527 3D ST

**TE 541 3D FVZ**
Receiver/Reinforcement steel frame: TE 541 3D FVZ SZ
Receiver/Reinforcement steel door: TE 541 3D FVZ ST
TECTUS®

Receiver TECTUS for steel frames and steel doors

**TE 540 3D**
Receiver/Reinforcement steel frame: TE 540 3D SZ
Receiver/Reinforcement steel door: TE 540 3D ST

**TE 640 3D**
Receiver/Reinforcement steel frame: TE 640 3D SZ
Receiver/Reinforcement steel door: TE 640 3D ST

**TE 540 3D A8**
Receiver/Reinforcement steel frame: TE 540 3D A8 SZ
Receiver/Reinforcement steel door: TE 540 3D A8 ST

**TE 640 3D A8**
Receiver/Reinforcement steel frame: TE 640 3D A8 SZ
Receiver/Reinforcement steel door: TE 640 3D A8 ST

**TE 626 3D A8**
Receiver/Reinforcement steel frame: TE 626 3D A8 SZ
Receiver/Reinforcement steel door: TE 626 3D A8 ST
Fixing Plate TECTUS Series
For reinforcement of casing frames

Fixing | Casing frame
---|---

**Finishes**
Standard Finishes: galvanized

**Combinations**
Hinge
- TE 240 3D
- TE 340 3D
- TE 526 3D
- TE 527 3D
- TE 540 3D
- TE 541 3D FVZ
- TE 640 3D
- TE 540 3D A8
- TE 640 3D A8
- TE 626 3D A8

energy transfer
- TE 240 3D Energy Kit
- TE 340 3D Energy Kit
- TE 526 3D Energy Kit
- TE 527 3D Energy Kit
- TE 540 3D Energy Kit
- TE 640 3D Energy Kit
- TE 645 3D Energy Kit
- TE 540 3D A8 Energy Kit
- TE 640 3D A8 Energy Kit
- TE 626 3D A8 Energy Kit

**Note**
Shims for casing strengths 22-28 mm (0.866-1.102") are included. Please specify the exact hinge in your order.

TE 540 3D fixing plate shown. Drawings for other fixing plate sizes available upon request.

**Model Variants**

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 240 3D</td>
<td>160 mm (6.299&quot;)</td>
<td>70 mm (2.756&quot;)</td>
</tr>
<tr>
<td>TE 340 3D</td>
<td>160 mm (6.299&quot;)</td>
<td>70 mm (2.756&quot;)</td>
</tr>
<tr>
<td>TE 526 3D</td>
<td>180 mm (7.087&quot;)</td>
<td>80 mm (3.150&quot;)</td>
</tr>
<tr>
<td>TE 527 3D</td>
<td>180 mm (7.087&quot;)</td>
<td>80 mm (3.150&quot;)</td>
</tr>
<tr>
<td>TE 540 3D</td>
<td>200 mm (7.874&quot;)</td>
<td>80 mm (3.150&quot;)</td>
</tr>
<tr>
<td>TE 541 3D FVZ</td>
<td>185 mm (7.283&quot;)</td>
<td>80 mm (3.150&quot;)</td>
</tr>
<tr>
<td>TE 640 3D</td>
<td>239.5 mm (9.429&quot;)</td>
<td>80 mm (3.150&quot;)</td>
</tr>
<tr>
<td>TE 540 3D A8</td>
<td>200 mm (7.874&quot;)</td>
<td>80 mm (3.150&quot;)</td>
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<td>TE 640 3D A8</td>
<td>239.5 mm (9.429&quot;)</td>
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<td>TE 626 3D A8</td>
<td>239.5 mm (9.429&quot;)</td>
<td>80 mm (3.150&quot;)</td>
</tr>
</tbody>
</table>
Fixing Plate TECTUS Series

TE 240 3D
Fixing plate: TE 240 3D FZ/1

TE 340 3D
Fixing plate: TE 340 3D FZ

TE 526 3D
Fixing plate: TE 525 3D FZ/1

TE 527 3D
Fixing plate: TE 525 3D FZ/1

TE 541 3D FVZ
Fixing plate: TE 541 3D FVZ FZ/1
Fixing Plate TECTUS for casing frames

**TE 540 3D**
Fixing plate: TE 540 3D FZ/1

**TE 640 3D**
Fixing plate: TE 640 3D FZ/1

**TE 540 3D A8**
Fixing plate: TE 540 3D FZ/1

**TE 640 3D A8**
Fixing plate: TE 640 3D FZ/1

**TE 626 3D A8**
Fixing plate: TE 626 3D FZ/1
Preparation and Installation

Frame and door prep

Perform routing according to SIMONSWERK routing data. Use router bit with a Ø of 24 mm (3/4") (TE 240 3D router bit Ø 16 mm (1/2")) and collar ring Ø 30 mm (1"). Routing templates for metric router bits and collars available upon request.

Installation of hinge to door panel
Affix door part with enclosed wood screws.

Installation of hinge to frame

Commercial frame
Affix frame part with enclosed wood screws.

Casing frame
Additional fixing plate for reinforcement is required. Affix the fixing plate with the appropriate screws (not included) behind the casing frame. Affix the hinge by using the enclosed M5 screws. To ensure flush hinge installation, shims are provided with the fixing plate.

Steel frame
Affix frame part of the hinge with the prepared receiver inside the door frame by using the enclosed M5 screws. To ensure flush hinge installation, shims are provided with the fixing plate.

Fix cover plates with the enclosed screws.

Application technology
Use the Universal Milling Frame (jig) No. 118 along with the required routing templates.
Special Milling Frame (long) required for TE 645 3D.
Drill jig for TE 526 3D and TE 527 3D available upon request.
Additional Installation for TECTUS Energy

Frame and door prep for raceway routing

Perform additional routing for the cable on door panel and frame. Plug the connectors together and install the sash part.

Plug the connectors of the hinge frame part and install the hinge in the jamb.

Make sure the plug connectors are engaged properly.

Screw the cover plates on by using the enclosed tapping screws onto frame and door part.
Adjustment TECTUS Series

Three way adjustable

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Side</td>
<td>+/- 3 mm (0.118&quot;)</td>
</tr>
<tr>
<td>Height</td>
<td>+/- 3 mm (0.118&quot;)</td>
</tr>
<tr>
<td>Depth</td>
<td>+/- 1 mm (0.039&quot;)</td>
</tr>
</tbody>
</table>

Side adjustment (horizontal)
- Adjust the adjusting spindles using a 4 mm (0.157") Allen wrench
- Turn side adjustment screw counterclockwise for increasing the air gap max. 3 mm (0.118") on the locking side
- Turn side adjustment screw clockwise for decreasing the air gap max. 3 mm (0.118") on the locking side

Height adjustment (vertical)
- Slightly loosen all four clamping screws on all hinges
- Adjust the vertical position of the door
- Turn the lower height adjustment screw clockwise for raising the door
- Turn the lower height adjustment screw counterclockwise for lowering the door
  Note: Before raising the door make sure that the upper adjustment screw is loosened.
- Retighten the clamping screws on all hinges

Depth adjustment (in/out)
- Slightly loosen the fixing screws
- Align the door to the desired compression
- Retighten the clamping screws

All adjustments can be performed with a 4 mm (0.157") Allen wrench.
Adjustment TECTUS TE 526/527 3D

Three way adjustable

Side
+/- 3 mm (0.118")

Height
+/- 3 mm (0.118")

Depth
+/- 1 mm (0.039")

Side adjustment (horizontal)
- Adjust the adjusting spindles using a 4 mm (0.157") Allen wrench
- Turn side adjustment screw counterclockwise for increasing the air gap max. 3 mm (0.118") on the locking side
- Turn side adjustment screw clockwise for decreasing the air gap max. 3 mm (0.118") on the locking side

Height (vertical) and depth (in/out) adjustment
- Wedge the door
- Slightly loosen all four clamping screws on all hinges
- Adjust the height and depth position of the door manually
- Retighten the clamping screws

All adjustments can be performed with a 4 mm (0.157") Allen wrench.
**HINGE POSITIONS**

**TECTUS Series**

To increase the load capacity of the hinges, a third hinge needs to be positioned 14” below the upper hinge (center to center). The use of a third hinge in order to increase the load capacity has to be determined on a case by case basis. Our hinge data refers to a height/width ratio of the door of 2:1 or more. Please contact us for further information and also see the door manufacturers instructions.

Proper preparation and alignment as well as tension-free adjustment are crucial for a hassle-free operation!

**Application with increased load capacity**

![Application Diagram]

**Examples for applications with different door heights**

< 8 ft < 8 ft

![Diagram for door height < 8 ft]

≥ 8 ft ≥ 8 ft

![Diagram for door height ≥ 8 ft]

The hinge spacing does not increase the load capacity!

Note: We recommend for all exterior doors the use of three hinges.
Overview of load values for hinges

The following table provides an overview of the maximum load value for the individual hinge type, taking the interaction of width and height of the door as well as the hinge spacing into account.

The reference load carrying capacity is based on a height / width ratio of 2:1. For example, assuming a reference value with door leaf dimensions of 2000 x 1000 mm (H x W), a positioning of 10° from the top and 10° from the bottom to the center of each hinge is required (see page 46).

For required number of hinges and hinge spacing refer to door manufacturer recommendation.

Values represent hinges positioned 10° from the top and 10° from the bottom to center of each hinge (see page 46).

**Green**: load value = reference value, **Orange**: load value < reference value.

<table>
<thead>
<tr>
<th>Door panel height in mm</th>
<th>40 / 88</th>
<th>40 / 88</th>
<th>40 / 88</th>
<th>40 / 88</th>
<th>40 / 88</th>
<th>40 / 88</th>
<th>40 / 88</th>
<th>40 / 88</th>
<th>40 / 88</th>
<th>40 / 88</th>
</tr>
</thead>
<tbody>
<tr>
<td>2743 / 108</td>
<td>2591 / 102</td>
<td>2438 / 96</td>
<td>2388 / 94</td>
<td>2337 / 92</td>
<td>2296 / 90</td>
<td>2255 / 88</td>
<td>2214 / 86</td>
<td>2134 / 84</td>
<td>2083 / 82</td>
<td>2032 / 80</td>
</tr>
<tr>
<td>1981 / 78</td>
<td>1931 / 76</td>
<td>1881 / 74</td>
<td>1831 / 72</td>
<td>1781 / 70</td>
<td>1781 / 70</td>
<td>1731 / 68</td>
<td>1731 / 68</td>
<td>1681 / 66</td>
<td>1631 / 64</td>
<td>1581 / 62</td>
</tr>
</tbody>
</table>

**REFERENCE VALUE 40 KG / 88 lbs.**

<table>
<thead>
<tr>
<th>Door width in mm / inch</th>
</tr>
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<tbody>
<tr>
<td>≤ 914 / 36</td>
</tr>
<tr>
<td>965 / 38</td>
</tr>
<tr>
<td>1016 / 40</td>
</tr>
<tr>
<td>1067 / 42</td>
</tr>
<tr>
<td>1118 / 44</td>
</tr>
<tr>
<td>1168 / 46</td>
</tr>
<tr>
<td>1219 / 48</td>
</tr>
<tr>
<td>1270 / 50</td>
</tr>
<tr>
<td>1321 / 52</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Door panel height in mm</th>
<th>80 / 176</th>
<th>80 / 176</th>
<th>80 / 176</th>
<th>80 / 176</th>
<th>80 / 176</th>
<th>80 / 176</th>
<th>80 / 176</th>
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</thead>
<tbody>
<tr>
<td>2743 / 108</td>
<td>2591 / 102</td>
<td>2438 / 96</td>
<td>2388 / 94</td>
<td>2337 / 92</td>
<td>2296 / 90</td>
<td>2255 / 88</td>
<td>2214 / 86</td>
<td>2134 / 84</td>
<td>2083 / 82</td>
<td>2032 / 80</td>
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<tr>
<td>1981 / 78</td>
<td>1931 / 76</td>
<td>1881 / 74</td>
<td>1831 / 72</td>
<td>1781 / 70</td>
<td>1781 / 70</td>
<td>1731 / 68</td>
<td>1731 / 68</td>
<td>1681 / 66</td>
<td>1631 / 64</td>
<td>1581 / 62</td>
</tr>
</tbody>
</table>

**REFERENCE VALUE 80 KG / 176 lbs.**

<table>
<thead>
<tr>
<th>Door width in mm / inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤ 914 / 36</td>
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<tr>
<td>965 / 38</td>
</tr>
<tr>
<td>1016 / 40</td>
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<tr>
<td>1067 / 42</td>
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<tr>
<td>1118 / 44</td>
</tr>
<tr>
<td>1168 / 46</td>
</tr>
<tr>
<td>1219 / 48</td>
</tr>
<tr>
<td>1270 / 50</td>
</tr>
<tr>
<td>1321 / 52</td>
</tr>
</tbody>
</table>

The specifications above are guidelines. Especially in the case of borderline load requirements, please contact us.

Values represent hinges positioned 10° from the top and 10° from the bottom to center of each hinge (see page 46).
# LOAD CAPACITIES

## Overview of load values for hinges

<table>
<thead>
<tr>
<th>Door width in mm</th>
<th>914 / 36</th>
<th>965 / 38</th>
<th>1016 / 40</th>
<th>1067 / 42</th>
<th>1118 / 44</th>
<th>1158 / 46</th>
<th>1219 / 48</th>
<th>1270 / 50</th>
<th>1321 / 52</th>
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<tbody>
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<td>100 / 220</td>
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<td></td>
<td></td>
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<tr>
<td>100 / 220</td>
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<td></td>
<td></td>
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<tr>
<td>100 / 220</td>
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<tr>
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<tr>
<td>100 / 220</td>
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<td></td>
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<tr>
<td>100 / 220</td>
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<tr>
<td>100 / 220</td>
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</tr>
</tbody>
</table>

### Reference Value 100 kg / 220 lbs.

- TE 541 3D FVZ
- TE 540 3D A8
- TE 540 3D A8 Energy Kit

### Reference Value 120 kg / 264 lbs.

- TE 526 3D
- TE 527 3D
- TE 540 3D
- TE 526 3D Energy Kit
- TE 527 3D Energy Kit
- TE 540 3D Energy Kit

### Reference Value 160 kg / 352 lbs.

- TE 640 3D A8
- TE 640 3D A8 Energy Kit

The specifications above are guidelines. Especially in the case of borderline load requirements, please contact us.

Values represent hinges positioned 10" from the top and 10" from the bottom to center of each hinge (see page 46).
## LOAD CAPACITIES

### Overview of load values for hinges

#### REFERENCE VALUE 200 KG / 440 lbs.

**TE 640 3D**  
**TE 640 3D Energy Kit**

|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

#### REFERENCE VALUE 250 KG / 551 lbs.

**TE 626 3D A8**  
**TE 626 3D A8 Energy Kit**

|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

#### REFERENCE VALUE 300 KG / 661 lbs.

**TE 645 3D**  
**TE 645 3D Energy Kit**

<table>
<thead>
<tr>
<th>Door panel height in mm</th>
<th>300 / 661</th>
<th>300 / 661</th>
<th>300 / 661</th>
<th>300 / 661</th>
<th>300 / 661</th>
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Values represent hinges positioned 10" from the top and 10" from the bottom to center of each hinge (see page 46).
TECTUS® – Finishes

**Powder Coated Finishes***

- 070 traffic white (RAL 9016)
- 107 matte deep black (RAL 9005)
- 124 satin chrome look (F1)
- 125 satin nickel look (F2)
- 156 rustic umber
- 168 bronze metallic
- 194 grey metallic

**Galvanic Plated Finishes***

- 030 polished brass
- 038 polished nickel
- 144 satin nickel
- 146 satin chrome
- 174 bronze finish
- 175 light bronze finish
- 176 dark bronze finish

**Brushed Stainless Steel***

- 040 satin stainless steel

**Galvanic/Liquid Coated Finishes***

- 126 stainless steel look (SSL)

*The colors of the finishes shown may differ from the original.*
SIMONSWERK is a leading manufacturer of heavy duty, high performance hinge systems, producing premium hinges for over 125 years.

As an industry pioneer for adjustable concealed door hinge systems, SIMONSWERK has built an impressive and extensive product offering including a wide range of architectural finishes for high-traffic and heavy-use doors. With a hinge system for nearly every application, SIMONSWERK constantly strives to meet the demand for innovative design solutions, utilizing functional tools to ensure a simple and smooth installation process. In addition, SIMONSWERK makes every effort to offer an outstanding customer service experience.
QUALITY AND INNOVATION

The SIMONSWERK brand stands for innovation and high standards of quality and service. These cornerstones date back as far as 1889, with customized solutions leading to the development of new products every year.

SIMONSWERK’s quality requirements begin with the products, specifically in the selection of raw materials. Using high-quality materials allows for the largest possible freedom of design, providing diverse options for surface refinement and protection against corrosion.

State-of-the-art resources, including the latest manufacturing techniques and highly flexible automated production processes, make SIMONSWERK a competent partner for all aspects of door hinge technology. To meet the technical, safety and design requirements of modern architecture, SIMONSWERK hinge systems feature precise functioning, often exceeding demands and expectations.

A company’s innovative strength is expressed through its competence and its responsibility to its customers in the marketplace. Longevity, top-quality products, and creative thinking give SIMONSWERK the ability to open new markets with new ideas.
In an effort to provide a complete service experience, SIMONSWERK has made available any documentation needed to determine the most suitable hinge system. The SIMONSWERK website can supply any information in addition to this brochure. Brochures, data sheets, fitting instructions and milling data can be requested in a printed version, or downloaded from the website.

An additional tool accessible through the SIMONSWERK website is the PRODUCTSELECTOR. This online aid helps select the right product for each project including accessories for specific applications. Specification text, CAD drawings and part numbers can be downloaded through the PRODUCTSELECTOR on the website.

For a more personal experience, contact our hinge system experts to collaborate on any project, from high-quality standard sets to the most complex solutions.