

# TECTUS®

The adjustable concealed door hinge

TECTUS®



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## TECTUS® – The adjustable concealed door hinge

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# 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.

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## 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
- 





# DESIGN MEETS FUNCTION

## 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 60 kg (132 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.)

TECTUS®

TE 240 3D

For flush residential doors

Hinge		up to 60 kg (132 lbs.)
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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](http://www.simonswerk-usa.com).

Technical Data

Load capacity	60 kg (132 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

satin chrome look (F1) (124), satin nickel look (F2) (125), stainless steel look (SSL) (126), rustic umber (156), bronze metallic (168), traffic white (RAL 9016) (070), matte deep black (RAL9005) (107), polished brass (030), polished nickel (038), satin nickel (144), satin chrome (146), bronze finish light (175), bronze finish (174), bronze finish dark (176), satin brass (047), other finishes available upon request

Combinations

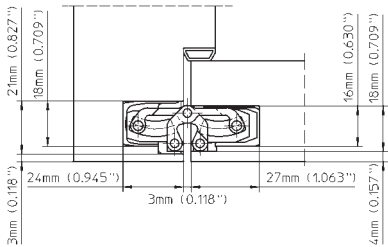
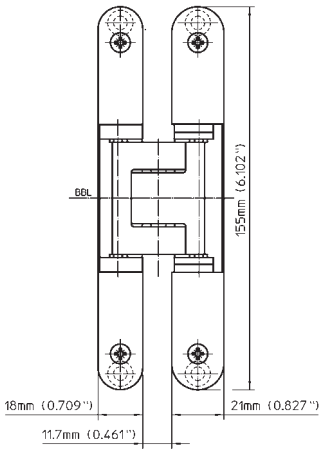
Receiver/Reinforcement	Commercial frame	Frame mounted
	Casing frame	TE 240 3D FZ
	Steel frame	TE 240 3D SZ
	Steel door	TE 240 3D ST
	Aluminum frame	Specified by manufacturer

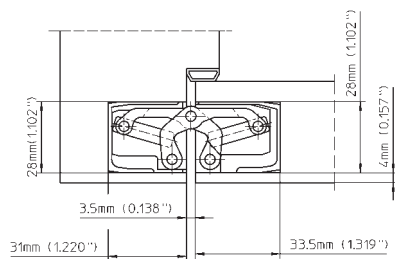
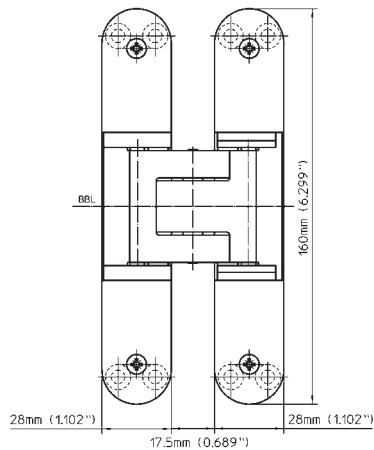
Installation Tools

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.)
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### 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](http://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

satin chrome look (F1) (124), satin nickel look (F2) (125), stainless steel look (SSL) (126), rustic umber (156), bronze metallic (168), traffic white (RAL 9016) (070), matte deep black (RAL9005) (107), polished brass (030), polished nickel (038), satin nickel (144), satin chrome (146), bronze finish light (175), bronze finish (174), bronze finish dark (176), satin brass (047), 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 5
Step 2	routing template	No. 5 251059 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.

# TECTUS®

## TE 526 3D

Manufactured of solid stainless steel for flush commercial doors

**Hinge** up to 120 kg (264 lbs.)

### 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](http://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) (040)

### Combinations

Receiver/Reinforcement	Commercial frame	Frame mounted
	Casing frame	TE 526 3D FZ
	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).

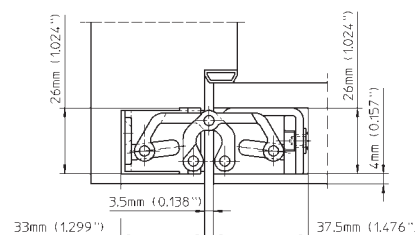
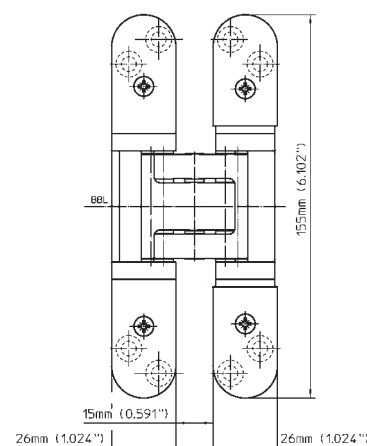
For a minimum door panel thickness of 34 mm (1-3/8").

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

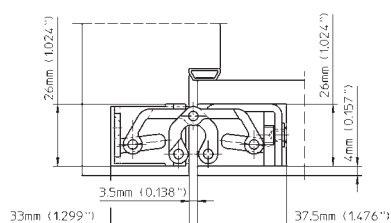
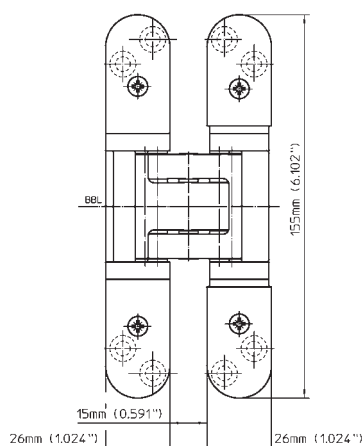
Square-corner cover plates are available upon request - see page 34.

The load capacity may be reduced when installed in combination with a door closer.

For further information, please contact us.







## TE 527 3D

Manufactured of mild steel for flush commercial doors

Hinge		up to 120 kg (264 lbs.)
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### 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 PRODUCTSELECTOR at [www.simonswerk-usa.com](http://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

stainless steel look (SSL) (126), other finishes available upon request

### Combinations

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

### Installation Tools

Jig	Universal milling frame
	Drilling jig TECTUS TE 527 3D
Frame/Door	routing template
	No. 5 251070 6

### 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 may be reduced when installed in combination with a door closer.

For further information, please contact us.

TECTUS®

TE 540 3D

For flush commercial doors

Hinge	up to 120 kg (264 lbs.)
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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 PRODUCTSELECTOR at [www.simonswerk-usa.com](http://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"

Finishes

satin chrome look (F1) (124), satin nickel look (F2) (125), stainless steel look (SSL) (126), rustic umber (156), bronze metallic (168), traffic white (RAL 9016) (070), matte deep black (RAL9005) (107), polished brass (030), polished nickel (038), satin nickel (144), satin chrome (146), bronze finish light (175), bronze finish (174), bronze finish dark (176), satin brass (047), other finishes available upon request

Combinations

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

Installation Tools

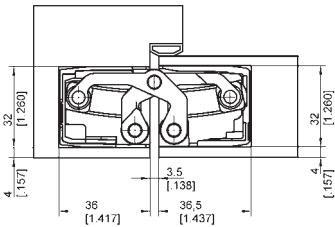
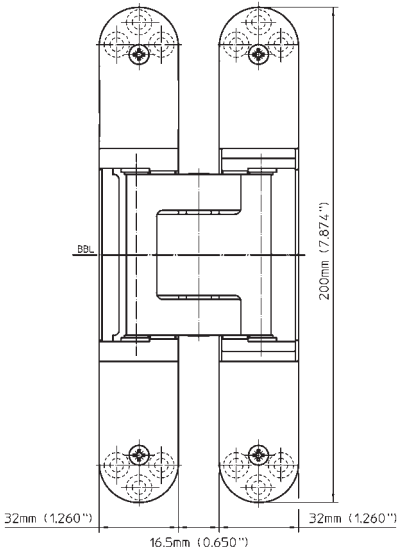
Jig	Universal milling frame	
Step 1	routing template	No. 5 251060 5
Step 2	routing template	No. 5 251061 5

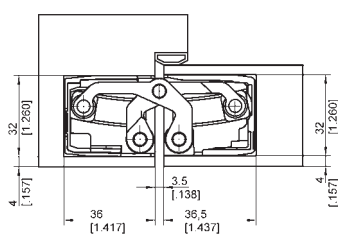
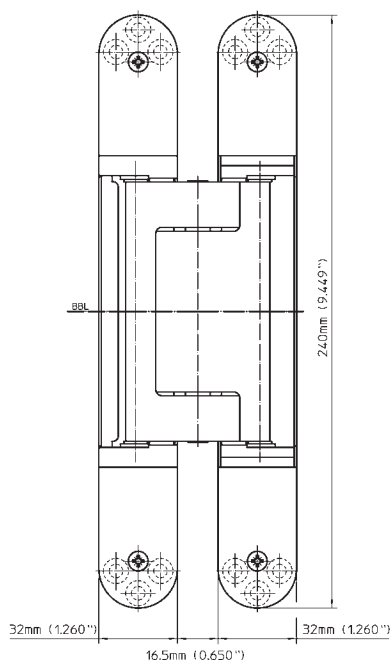
Application Range

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 may be reduced when installed in combination with a door closer.  
For further information, please contact us.





## TE 640 3D

For flush high performance commercial doors

Hinge		up to 200 kg (440 lbs.)
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### 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 PRODUCTSELECTOR at [www.simonswerk-usa.com](http://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

satin chrome look (F1) (124), satin nickel look (F2) (125), stainless steel look (SSL) (126), rustic umber (156), bronze metallic (168), traffic white (RAL 9016) (070), matte deep black (RAL9005) (107), polished brass (030), polished nickel (038), satin nickel (144), satin chrome (146), bronze finish light (175), bronze finish (174), bronze finish dark (176), satin brass (047), other finishes available upon request

### Combinations

Receiver/Reinforcement	Commercial frame	Frame mounted
	Casing frame	TE 640 3D FZ
	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 may be reduced when installed in combination with a door closer.

For further information, please contact us.

TECTUS®

TE 645 3D

For flush high performance commercial doors

Hinge	up to 300 kg (661 lbs.)
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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

The specification text can be downloaded from the PRODUCTSELECTOR at [www.simonswerk-usa.com](http://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

satin chrome look (F1) (124), stainless steel look (SSL) (126), other finishes available upon request

Combinations

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

Installation Tools

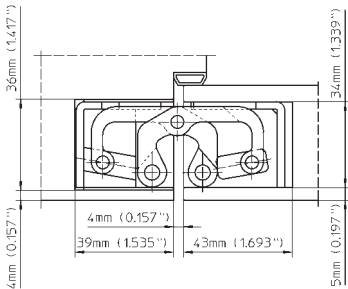
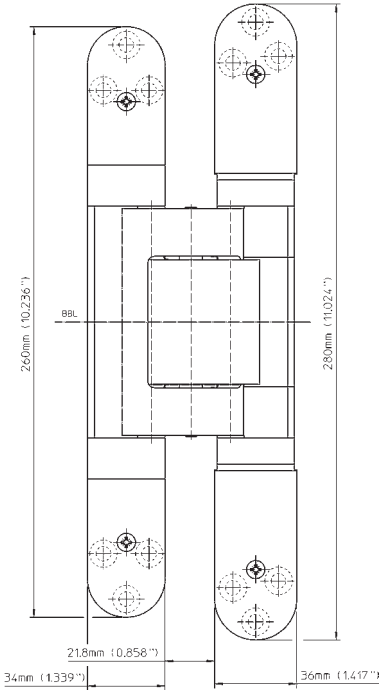
Jig	Universal milling frame long	
Frame, Step 1	routing template	No. 5 251064 5
Frame, Step 2	routing template	No. 5 251065 5
Door, Step 1	routing template	No. 5 251066 5
Door, Step 2	routing template	No. 5 251067 5

Application Range

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 may be reduced when installed in combination with a door closer. For further information, please contact us.









# TECTUS®

## VERSIONS FOR SPECIAL APPLICATIONS

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



### **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.)



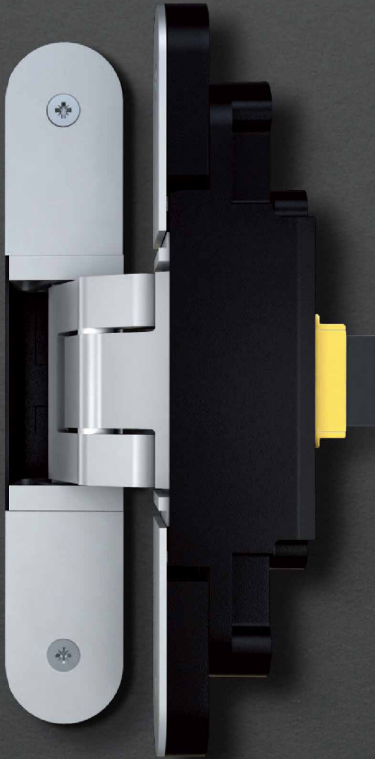
### **TECTUS® A8**

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 300 kg (661 lbs.)



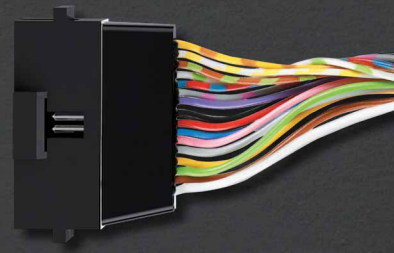


### TECTUS® Energy

Load capacities of 60 kg (132 lbs.)  
up to 300 kg (661 lbs.)

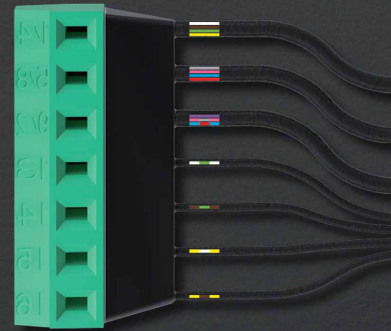
### ROUND CABLE

- › 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 0.14 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 0.14 square mm (26 AWG)



### CUSTOM ADAPTERS

- › Available upon request



# TECTUS® ENERGY

## INTEGRATED AND CONTINUOUS ENERGY TRANSFER

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.

### UNIVERSAL ADAPTER

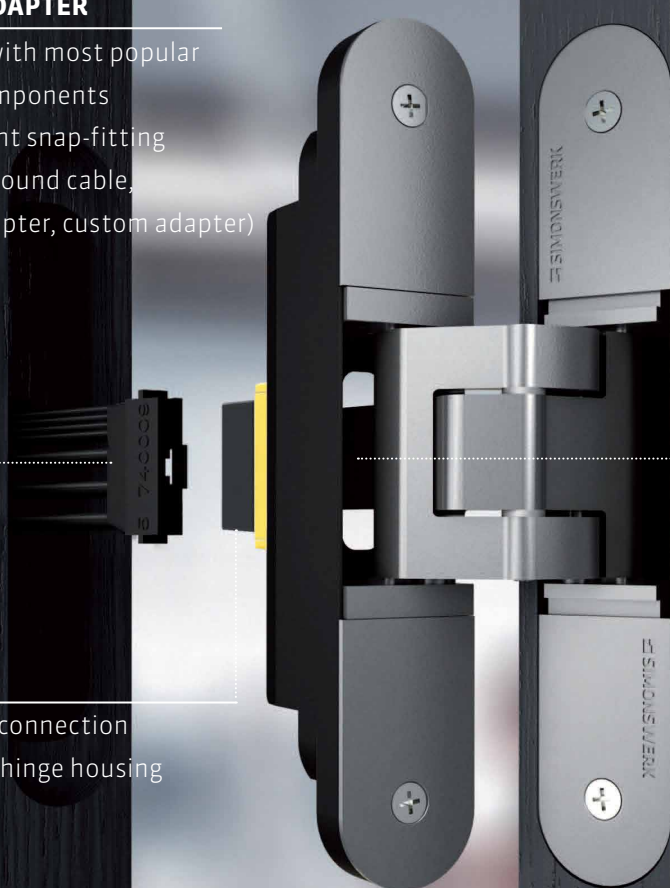
- › compatible with most popular hardware components
- › three different snap-fitting connectors (round cable, universal adapter, custom adapter)

### FLAT RIBBON CABLE

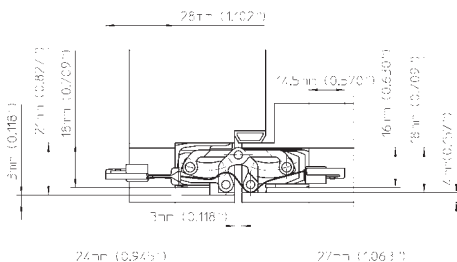
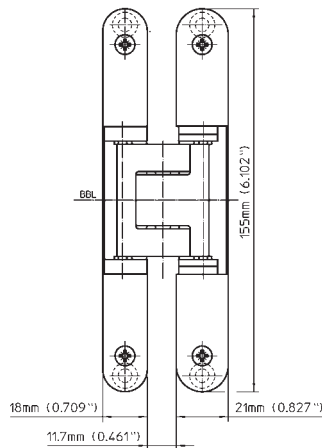
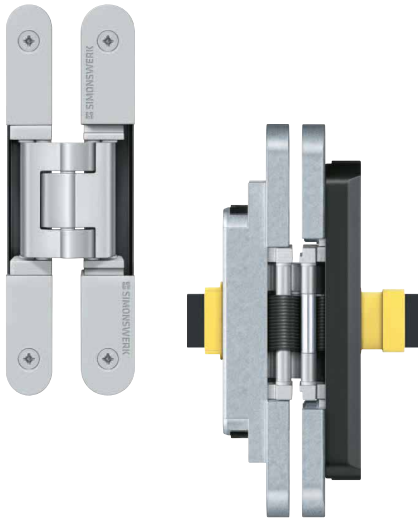
- › 16-wire ribbon cable
- › integrated continuous energy transfer

### CLIP

- › secure and reliable connection between cable and hinge housing







## TE 240 3D Energy Kit

With integrated and continuous energy transfer for flush residential doors

Hinge	energy transfer	up to 60 kg (132 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 +/- 1.5 mm (0.059"))
- 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](http://www.simonswerk-usa.com).

### Technical Data

Load capacity	60 kg (132 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 mm <sup>2</sup>
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) (124), stainless steel look (SSL) (126), other finishes available upon request

### Combinations

Receiver/Reinforcement	Commercial frame	Frame mounted
	Casing frame	TE 240 3D FZ
	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 5
---------------------	------------------	----------------

### 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.

TECTUS®

TE 340 3D Energy Kit

With integrated and continuous energy transfer for flush residential doors

Hinge	energy transfer	up to 80 kg (176 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
- Finger protection due to a small gap between door and frame
- UL listed for 20 minute fire door

The specification text can be downloaded from the PRODUCTSELECTOR at [www.simonswerk-usa.com](http://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 mm <sup>2</sup>
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) (124), stainless steel look (SSL) (126), 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
Accessories	Round Cable 10m (393.701")	
	Custom Adapter	

Installation Tools (in addition to templates for standard versions)

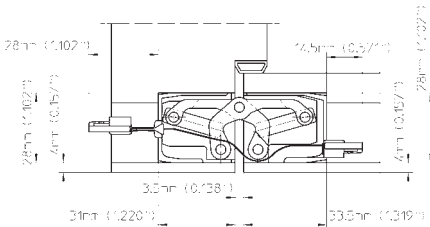
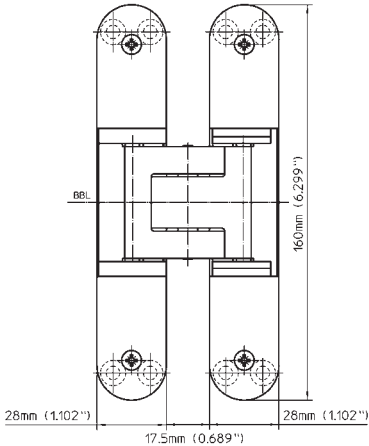
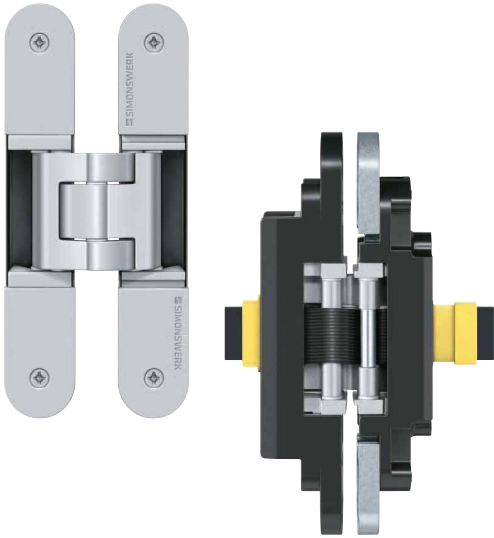
Routing for raceway	routing template	No. 5 251082 5
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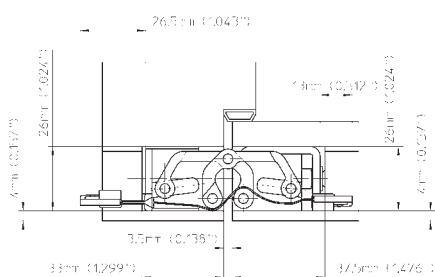
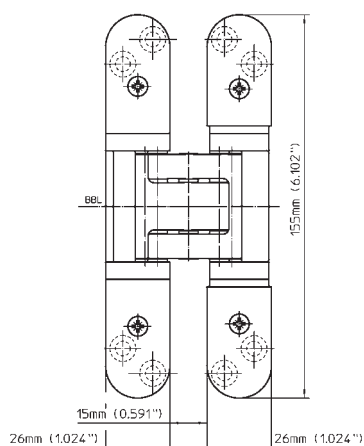
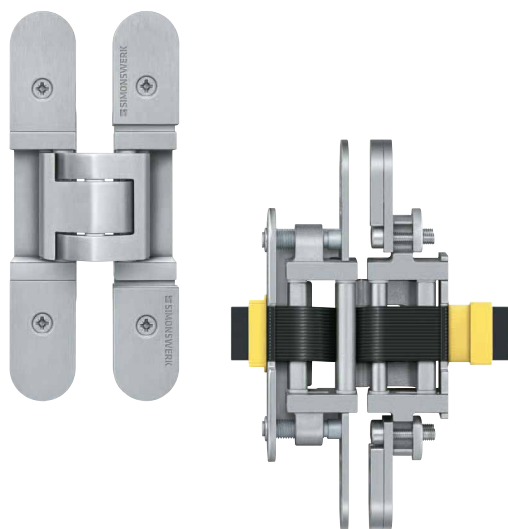
Application Range

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

Hinge	energy transfer	up to 120 kg (264 lbs.)
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### 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
- UL listed for 20 minute fire door

The specification text can be downloaded from the PRODUCTSELECTOR at [www.simonswerk-usa.com](http://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 mm <sup>2</sup>
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 (040)

### Combinations

Receiver/Reinforcement	Commercial frame	Frame mounted
	Casing frame	TE 526 3D FZ
	Steel frame	TE 526 3D SZ
	Steel door	TE 526 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
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### 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

Hinge	energy transfer	up to 120 kg (264 lbs.)
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### 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
- UL listed for 20 minute fire door

The specification text can be downloaded from the PRODUCTSELECTOR at [www.simonswerk-usa.com](http://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 mm <sup>2</sup>
Max. voltage	50 V (for voltages of 24 V or higher only with safeguarded power supply)
Max. current	0.8 A (per wire)

### Finishes

stainless steel look (SSL) (126), other finishes available upon request

### Combinations

Receiver/Reinforcement	Commercial frame	Frame mounted
	Casing frame	TE 527 3D FZ
	Steel frame	TE 527 3D SZ
	Steel door	TE 527 3D ST
Accessories	Aluminum frame	Specified by manufacturer
		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

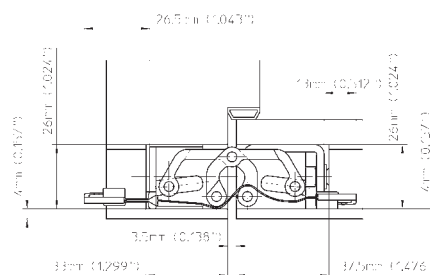
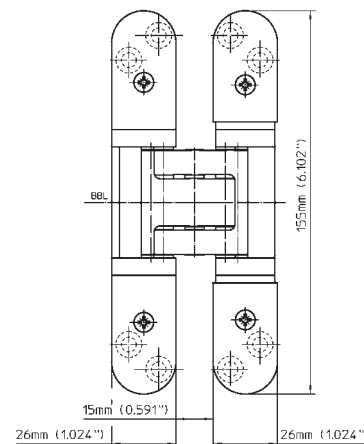
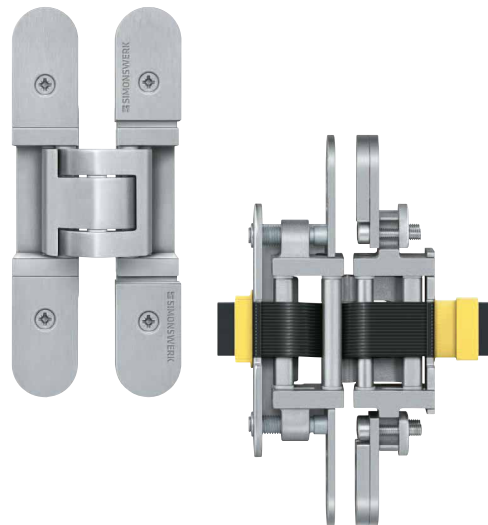
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail).

For a minimum door panel thickness of 34 mm (1-3/8").

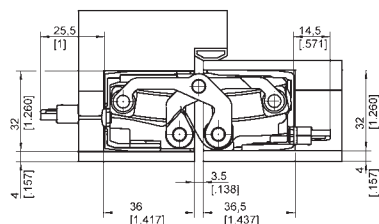
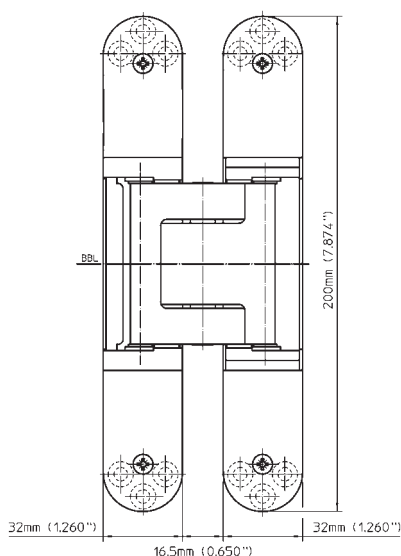
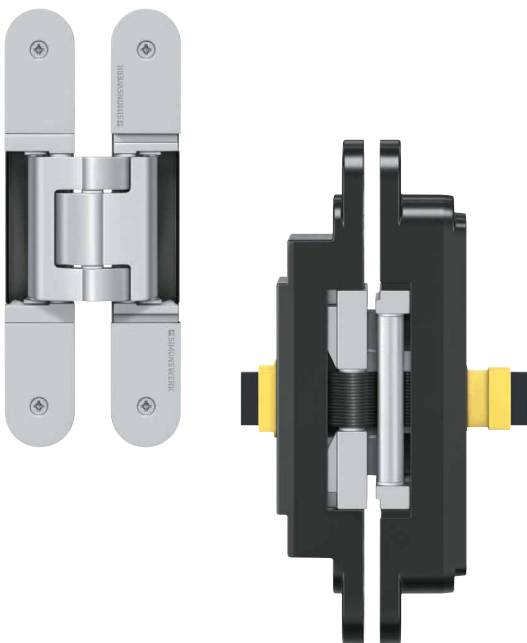
For fire rated doors: Check with door manufacturer regarding the usage of additional required intumescent material.

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

Hinge	energy transfer	up to 120 kg (264 lbs.)
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### 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
- UL listed for 20 minute fire door

The specification text can be downloaded from the PRODUCTSELECTOR at [www.simonswerk-usa.com](http://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 mm <sup>2</sup>
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) (124), stainless steel look (SSL) (126), other finishes available upon request

### Combinations

Receiver/Reinforcement	Commercial frame	Frame mounted
	Casing frame	TE 540 3D FZ
	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. 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.

TECTUS®

TE 640 3D Energy Kit

With integrated and continuous energy transfer for flush high performance commercial doors

Hinge	energy transfer	up to 200 kg (440 lbs.)
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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
- UL listed for 20 minute fire door

The specification text can be downloaded from the PRODUCTSELECTOR at [www.simonswerk-usa.com](http://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 mm <sup>2</sup>
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) (124), stainless steel look (SSL) (126), other finishes available upon request

Combinations

Receiver/Reinforcement	Commercial frame	Frame mounted
	Casing frame	TE 640 3D FZ
	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)

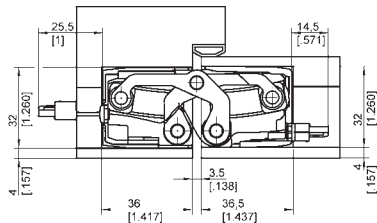
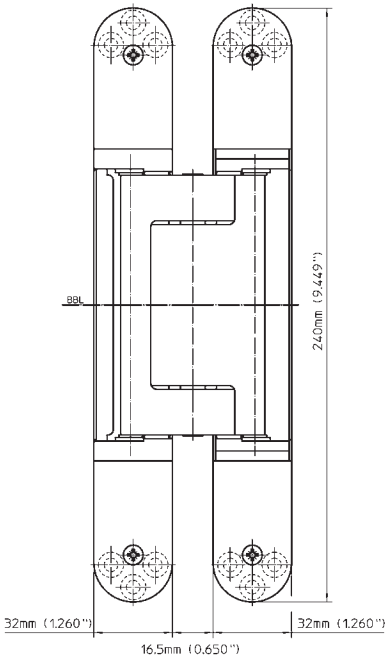
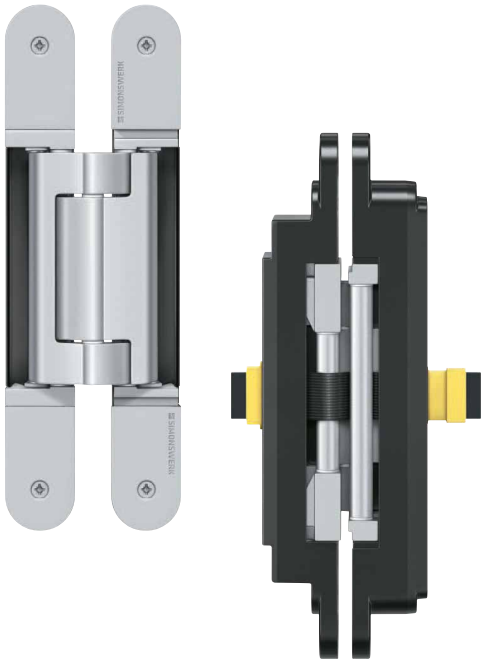
Routing for raceway	routing template	No. 5 251082 5
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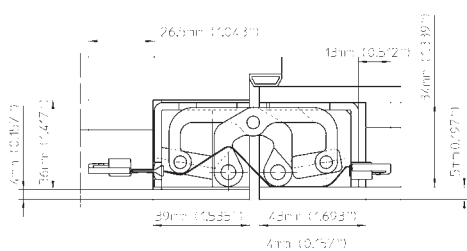
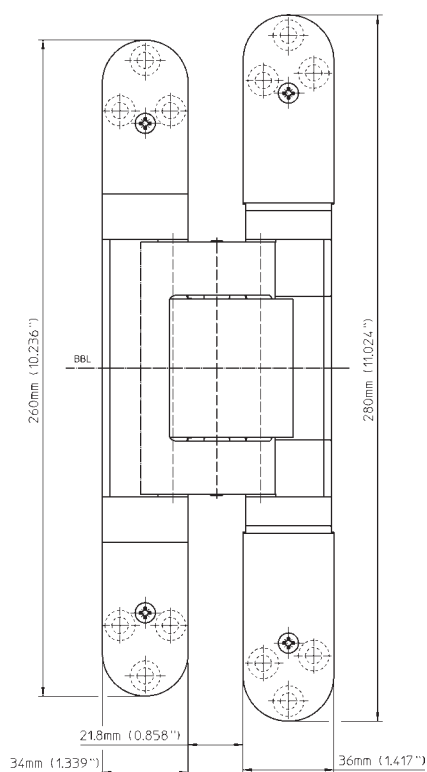
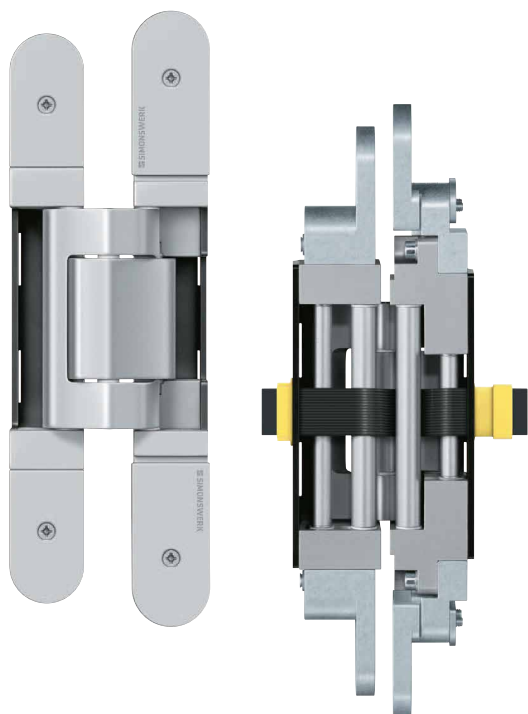
Application Range

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

Hinge	energy transfer	up to 300 kg (661 lbs.)
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### 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 PRODUCTSELECTOR at [www.simonswerk-usa.com](http://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 mm <sup>2</sup>
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) (124), stainless steel look (SSL) (126), 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
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### Application Range

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.

# TECTUS® FVZ

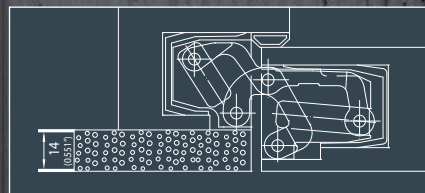
## DOOR ASSEMBLIES WITH HIDDEN FRAMES

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.

Load capacity up to 100 kg (220 lbs.)

For 14 mm (0.551")  
recessed frame facings







## 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](http://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) (124), satin nickel look (F2) (125), stainless steel look (SSL) (126), rustic umber (156), bronze metallic (168), traffic white (RAL 9016) (070), matte deep black (RAL9005) (107), polished brass (030), polished nickel (038), satin nickel (144), satin chrome (146), bronze finish light (175), bronze finish (174), bronze finish dark (176), satin brass (047), other finishes available upon request

### Combinations

Receiver/Reinforcement	Casing frame	TE 541 3D FVZ FZ
	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 2510715
Frame, Step 2	routing template	No. 5 2510725
Frame, Step 3	routing template	No. 5 2510685
Door, Step 1	routing template	No. 5 2510715
Door, Step 2	routing template	No. 5 2510725
Door, Step 3	routing template	No. 5 2510735

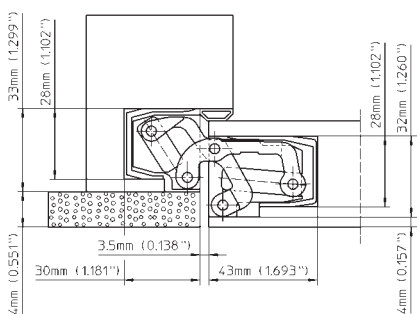
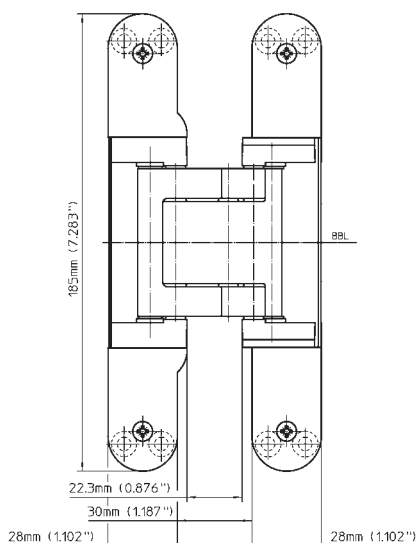
### Application Range

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.



# TECTUS® A8

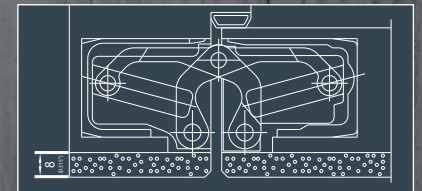
## CLADDING OVER THE DOOR AND FRAME

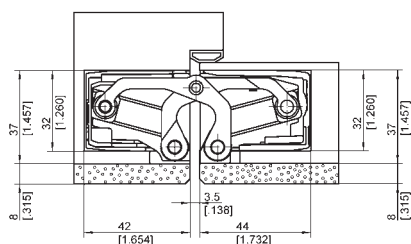
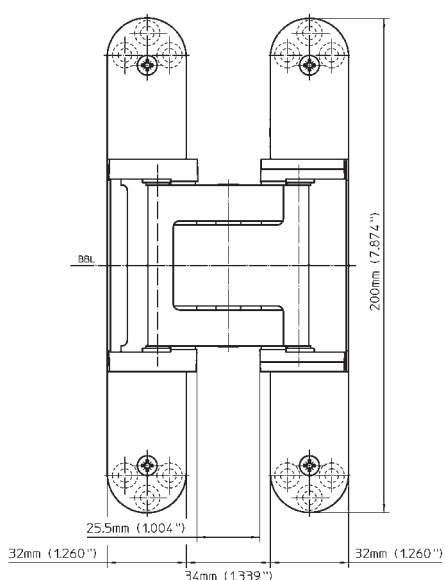
The TECTUS A8 models offer concealed hinges for applications where in the past it was only possible to use pivots to hang a door. The A8 versions allow a door to visually disappear into a wall with many different kinds of claddings such as mirrors, laminates and marble up to 8 mm (0.315") in thickness. The TECTUS A8 hinges give designers new opportunities for integrating the door panel into a holistic room concept.

Load capacities up to 300 kg  
(661 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")

Hinge	up to 100 kg (220 lbs.)
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### 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 PRODUCTSELECTOR at [www.simonswerk-usa.com](http://www.simonswerk-usa.com).

### Technical Data

Load capacity	100 kg (220 lbs.)
Length	200 mm (7.874")
Width (door)	per 32/37 mm (1.260/1.457")
Width (frame)	per 32/37 mm (1.260/1.457")
Router bit / collar Ø	3/4" / 1"

### Finishes

satin chrome look (F1) (124), satin nickel look (F2) (125), stainless steel look (SSL) (126), rustic umber (156), bronze metallic (168), traffic white (RAL 9016) (070), matte deep black (RAL9005) (107), polished brass (030), polished nickel (038), satin nickel (144), satin chrome (146), bronze finish light (175), bronze finish (174), bronze finish dark (176), satin brass (047), other finishes available upon request

### Combinations

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

### Installation Tools

Jig	Universal milling frame	
Step 1	routing template	No. 5 251060 5
Step 2	routing template	No. 5 251061 5
Step 3	routing template	No. 5 251068 5
Step 3 (without cladding)	routing template	No. 5 251096 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.

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.)
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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 PRODUCTSELECTOR at [www.simonswerk-usa.com](http://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

satin chrome look (F1) (124), satin nickel look (F2) (125), stainless steel look (SSL) (126), rustic umber (156), bronze metallic (168), traffic white (RAL 9016) (070), matte deep black (RAL9005) (107), polished brass (030), polished nickel (038), satin nickel (144), satin chrome (146), bronze finish light (175), bronze finish (174), bronze finish dark (176), satin brass (047), other finishes available upon request

Combinations

Receiver/Reinforcement	Commercial frame	Frame mounted
	Casing frame	TE 640 3D FZ
	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 5
Step 2	routing template	No. 5 251063 5
Step 3	routing template	No. 5 251069 5
Step 3 (without cladding)	routing template	No. 5 251095 5

Application Range

Fire Resistant, Smoke Resistant, Soundproof, Forced Entry Resistant

Note

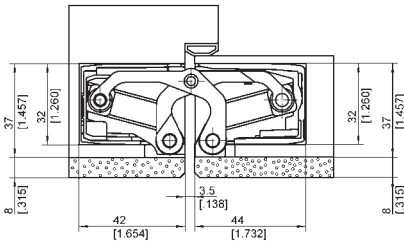
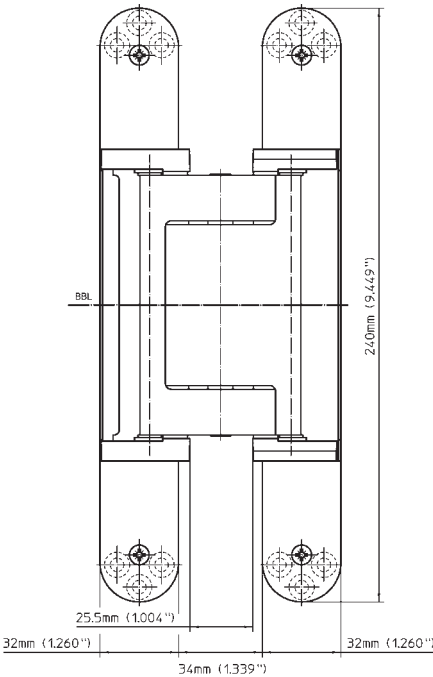
The load capacity mentioned above refers to the use of 2 hinges per door leaf with a height/width ratio of 2:1 (see page 46 for further detail).

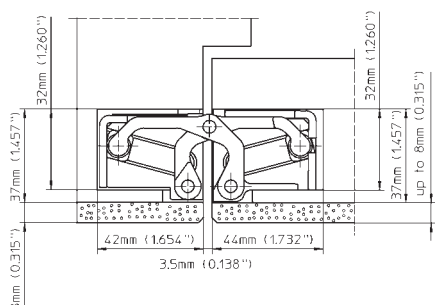
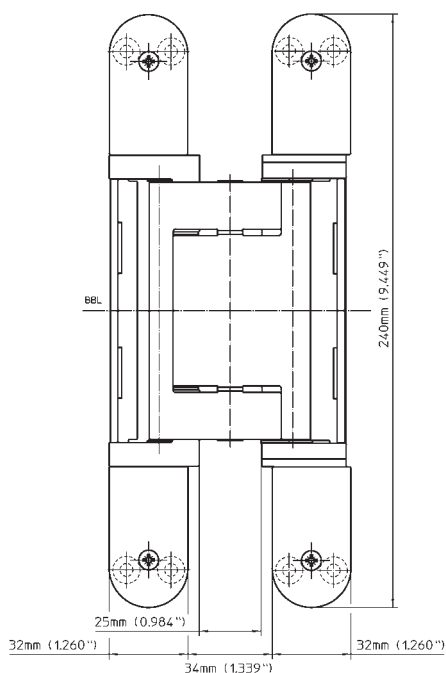
For a minimum door panel thickness of 40 mm (1-5/8" plus cladding).

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.





## TE 626 3D A8

Manufactured of solid stainless steel for flush high performance commercial doors with claddings up to 8 mm (0.315")

Hinge		up to 300 kg (661 lbs.)
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### 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](http://www.simonswerk-usa.com).

### Technical Data

Load capacity	300 kg (661 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

satin stainless steel (304 series) (040), 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

### Installation Tools

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



## TE 540 3D A8 Energy Kit

Hinge	up to 100 kg (220 lbs.)
-------	-------------------------

- 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
- UL listed for 20 minute fire door

Load capacity	100 kg (220 lbs.)
Length	200 mm (7.874")
Width (door)	per 32/37 mm (1.260/1.457")
Width (frame)	per 32/37 mm (1.260/1.457")
Router bit / collar Ø	3/4" / 1"
No. of wires/Wire cross section	16/0.14 mm <sup>2</sup>
Max. voltage	50 V (for voltages of 24 V or higher only with safeguarded power supply)
Max. current	0.8 A (per wire)

Receiver/Reinforcement	Commercial frame	Frame mounted
	Casing frame	TE 540 3D FZ
	Steel frame	TE 540 3D A8 SZ
	Steel door	TE 540 3D A8 ST
	Aluminum frame	Specified by manufacturer
Accessories		Round Cable 10m (393.701")
		Custom Adapter

Routing for raceway	routing template	No. 5 251082 5
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Fire Resistant. Smoke Resistant. Soundproof. Forced Entry Resistant.

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).

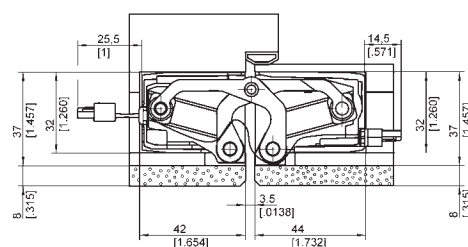
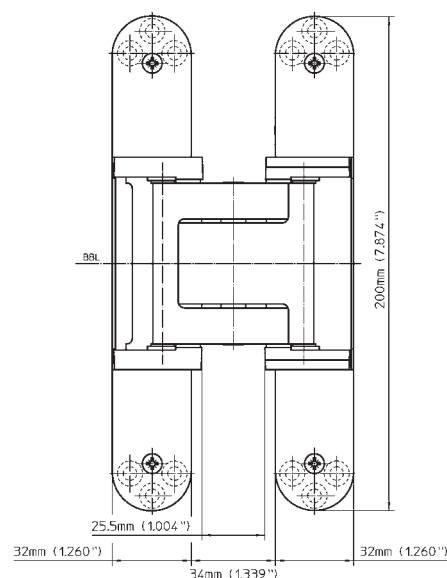
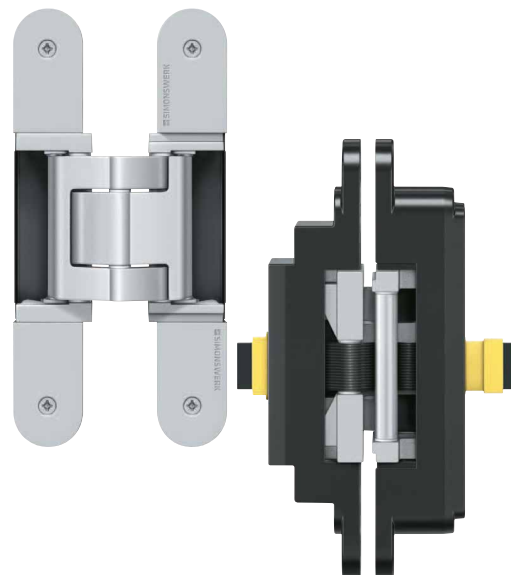
For a minimum door panel thickness of 40 mm (1-5/8" plus cladding).

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

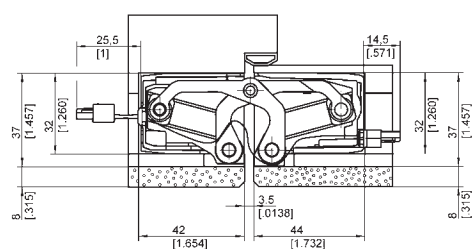
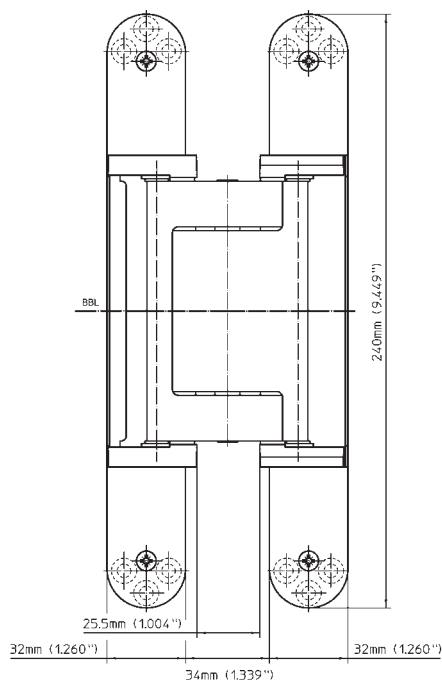
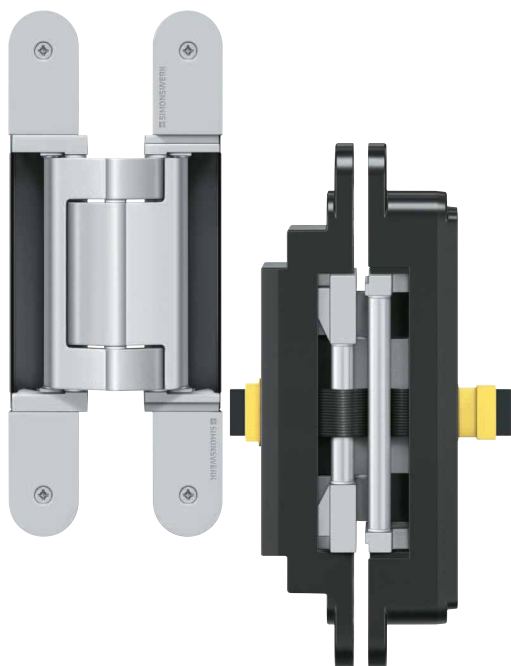
Cover plates for doors without cladding are available upon request - see page 33.

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")

**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
- UL listed for 20 minute fire door

The specification text can be downloaded from the PRODUCTSELECTOR at [www.simonswerk-usa.com](http://www.simonswerk-usa.com).

### Technical Data

Load capacity	160 kg (352 lbs.)
Length	240 mm (9.449")
Width (door)	per 32/37 mm (1.260/1.457")
Width (frame)	per 32/37 mm (1.260/1.457")
Router bit / collar Ø	3/4" / 1"
No. of wires/Wire cross section	16/0.14 mm <sup>2</sup>
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) (124), stainless steel look (SSL) (126), other finishes available upon request

### Combinations

Receiver/Reinforcement	Commercial frame	Frame mounted
	Casing frame	TE 640 3D FZ
	Steel frame	TE 640 3D A8 SZ
	Steel door	TE 640 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 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.

TECTUS®

TE 626 3D A8 Energy Kit

Manufactured of solid stainless steel with integrated and continuous energy transfer for flush high performance commercial doors with claddings up to 8 mm (0.315")

Hinge		up to 300 kg (661 lbs.)
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Product Features

- Solid non magnetic stainless steel (304 series)
- 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
- UL listed for 180 minute fire door

The specification text can be downloaded from the PRODUCTSELECTOR at [www.simonswerk-usa.com](http://www.simonswerk-usa.com).

Technical Data

Load capacity	300 kg (661 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 mm <sup>2</sup>
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) (040), 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)

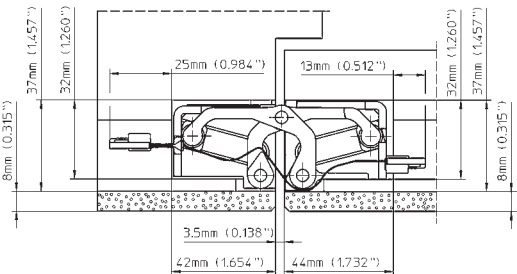
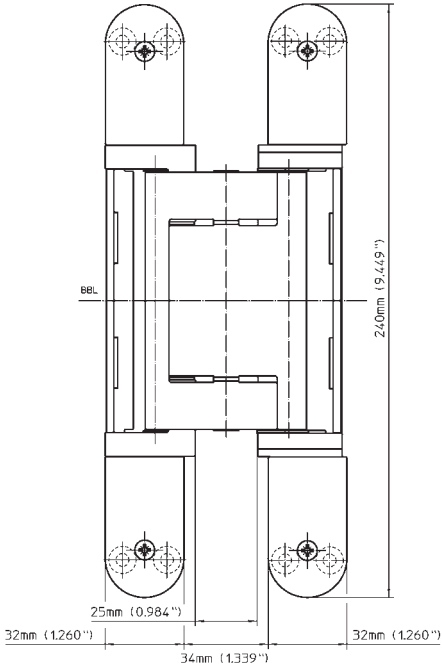
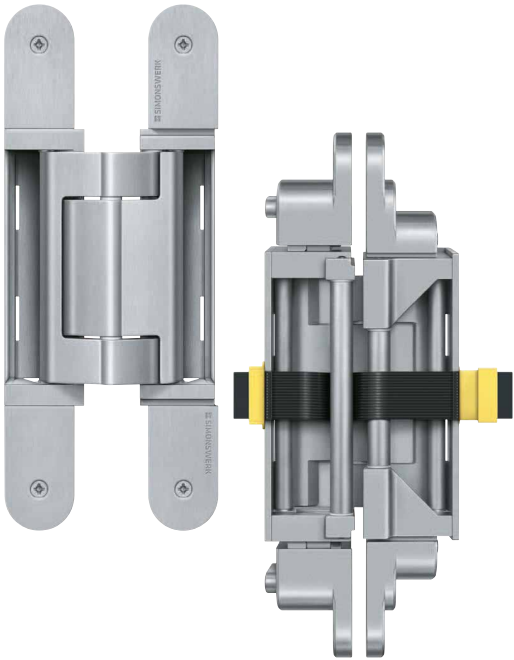
Routing for raceway	routing template	No. 5 251082 5
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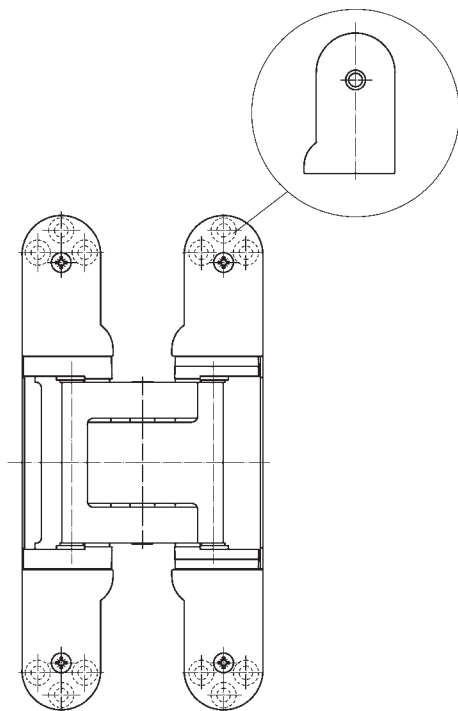
Application Range

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.





TE 540 3D A8 shown

## Cover plate set TECTUS A8 radius

Covers door prep for use with wide-throw A8 hinges when installed without cladding

### Accessories

### Cover plate set

### Finishes

satin chrome look (F1) (124), stainless steel look (SSL) (126), other finishes available upon request

### Combinations

Hinge	TE 540 3D A8
	TE 640 3D A8
	TE 540 3D A8 Energy Kit
	TE 640 3D A8 Energy Kit

### 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 4 plates for either door panel or frame side.

Square-corner cover plates

Add on part that accommodates corner door and frame preparation

Accessories		Cover plate set
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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

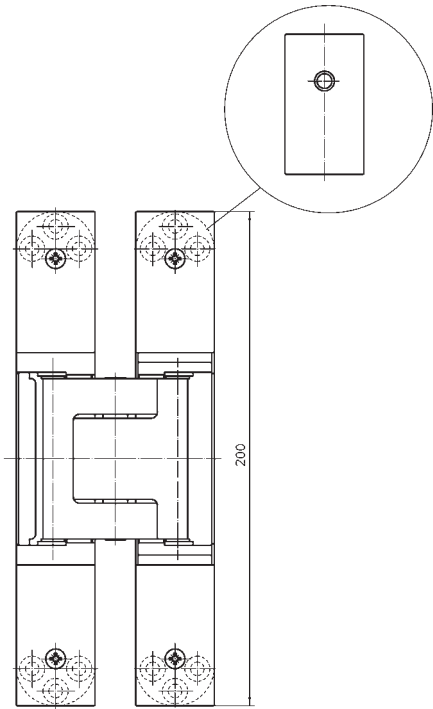
Standard Finishes: satin chrome look (F1) (124), satin nickel look (F2) (125), stainless steel look (SSL) (126), rustic umber (156), bronze metallic (168), traffic white (RAL 9016) (070), matte deep black (RAL9005) (107), polished brass (030), polished nickel (038), satin nickel (144), satin chrome (146)

Combinations

Hinge		TE 340 3D
		TE 526 3D
		TE 527 3D
		TE 540 3D
		TE 640 3D
		TE 645 3D
		TE 540 3D A8
		TE 640 3D A8
		TE 626 3D A8
energy transfer		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

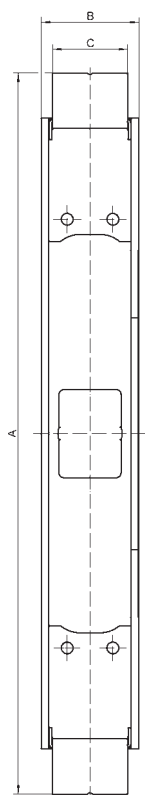
Please specify the exact hinge model. Set includes 2 plates for either door panel or frame side.



TE 540 3D shown



TE 540 3D SZ



## Receiver SZ

Reinforcement for steel and stainless steel frames

Fixing		Steel frame
--------	--	-------------

### Finishes

galvanized (010), satin stainless steel (040)

### 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 645 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

Please specify the exact hinge model when ordering.

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

Model Variants	A	B	C
TE 240 3D	205.0 mm (8.071")	27.4 mm (1.079")	21.8 mm (0.858")
TE 340 3D	210.0 mm (8.268")	35.0 mm (1.378")	26.0 mm (1.024")
TE 526 3D	210.0 mm (8.268")	35.0 mm (1.378")	26.0 mm (1.024")
TE 527 3D	210.0 mm (8.268")	35.0 mm (1.378")	26.0 mm (1.024")
TE 540 3D	286.0 mm (11.260")	38.5 mm (1.516")	29.6 mm (1.165")
TE 541 3D FVZ	286.0 mm (11.260")	38.5 mm (1.516")	29.6 mm (1.165")
TE 640 3D	286.0 mm (11.260")	38.5 mm (1.516")	29.6 mm (1.165")
TE 645 3D	328.0 mm (12.913")	42.5 mm (1.673")	37.0 mm (1.457")
TE 540 3D A8	286.0 mm (11.260")	38.5 mm (1.516")	29.6 mm (1.165")
TE 640 3D A8	286.0 mm (11.260")	38.5 mm (1.516")	29.6 mm (1.165")
TE 626 3D A8	286.0 mm (11.260")	38.5 mm (1.516")	29.6 mm (1.165")

Receiver ST

Reinforcement for steel and stainless steel door panels

Fixing		Steel door
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Finishes

galvanized (010), satin stainless steel (040)

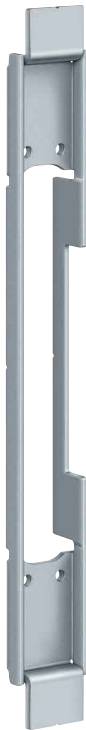
Combinations

Hinge		TE 240 3D
		TE 340 3D
		TE 526 3D
		TE 527 3D
		TE 540 3D
		TE 541 3D FVZ
		TE 640 3D
		TE 645 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

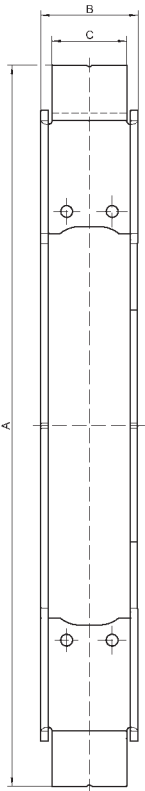
Note

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.

Model Variants	A	B	C
TE 240 3D	200.0 mm (7.874")	23.0 mm (0.906")	17.0 mm (0.669")
TE 340 3D	225.0 mm (8.858")	33.3 mm (1.311")	27.3 mm (1.075")
TE 526 3D	205.0 mm (8.071")	32.0 mm (1.260")	26.0 mm (1.024")
TE 527 3D	205.0 mm (8.071")	32.0 mm (1.260")	26.0 mm (1.024")
TE 540 3D	286.0 mm (11.260")	38.5 mm (1.516")	29.6 mm (1.165")
TE 541 3D FVZ	238.0 mm (9.370")	33.3 mm (1.311")	27.3 mm (1.075")
TE 640 3D	300.0 mm (11.811")	38.3 mm (1.508")	31.3 mm (1.232")
TE 645 3D	312.0 mm (12.283")	41.3 mm (1.626")	33.3 mm (1.311")
TE 540 3D A8	253.0 mm (9.961")	37.3 mm (1.469")	31.2 mm (1.232")
TE 640 3D A8	300.0 mm (11.811")	38.3 mm (1.508")	31.3 mm (1.232")
TE 626 3D A8	300.0 mm (11.811")	38.3 mm (1.508")	31.3 mm (1.232")



TE 540 3D ST



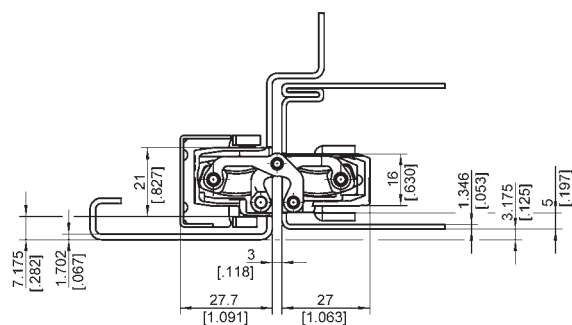


## Receiver TECTUS for steel frames and steel doors

### TE 240 3D

Receiver/Reinforcement steel frame: TE 240 3D SZ

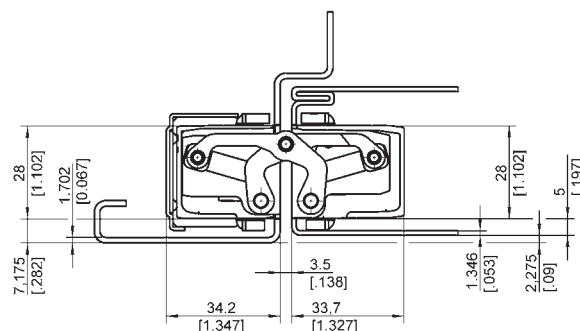
Receiver/Reinforcement steel door: TE 240 3D ST



### TE 340 3D

Receiver/Reinforcement steel frame: TE 340 3D SZ

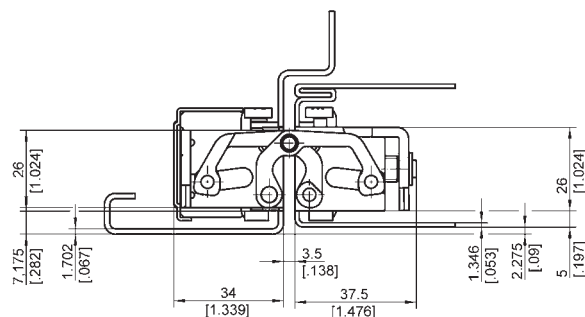
Receiver/Reinforcement steel door: TE 340 3D ST



### TE 526 3D

Receiver/Reinforcement steel frame: TE 526 3D SZ

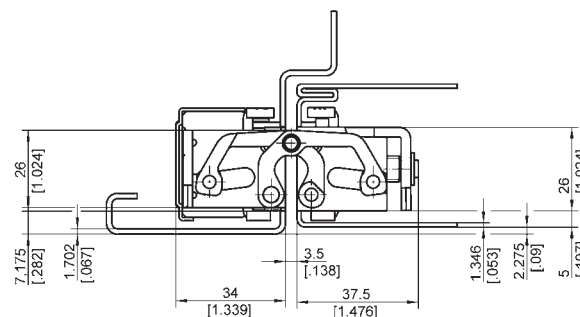
Receiver/Reinforcement steel door: TE 526 3D ST



### TE 527 3D

Receiver/Reinforcement steel frame: TE 527 3D SZ

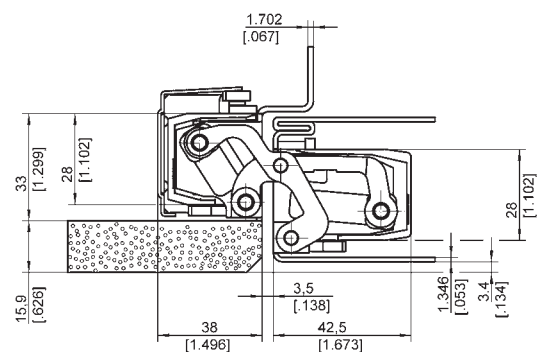
Receiver/Reinforcement steel door: TE 527 3D ST



### TE 541 3D FVZ

Receiver/Reinforcement steel frame: TE 541 3D FVZ SZ

Receiver/Reinforcement steel door: TE 541 3D FVZ ST



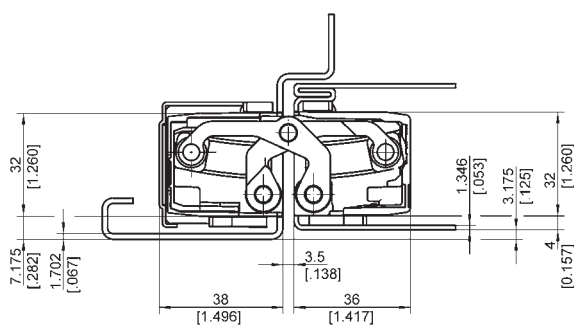
## TECTUS®

## Receiver TECTUS for steel frames and steel doors

**TE 540 3D**

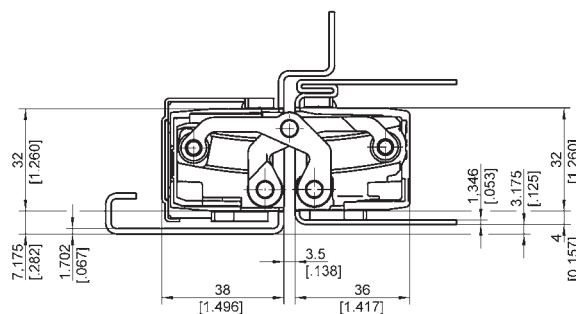
Receiver/Reinforcement steel frame: TE 540 3D SZ

Receiver/Reinforcement steel door: TE 540 3D ST

**TE 640 3D**

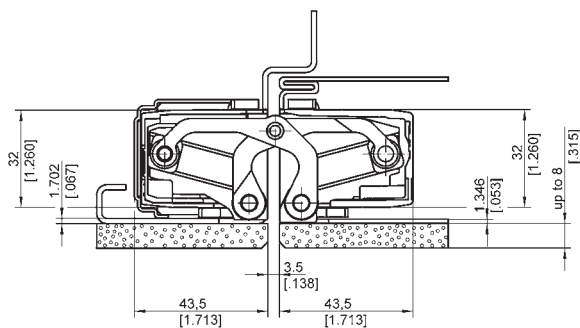
Receiver/Reinforcement steel frame: TE 640 3D SZ

Receiver/Reinforcement steel door: TE 640 3D ST

**TE 540 3D A8**

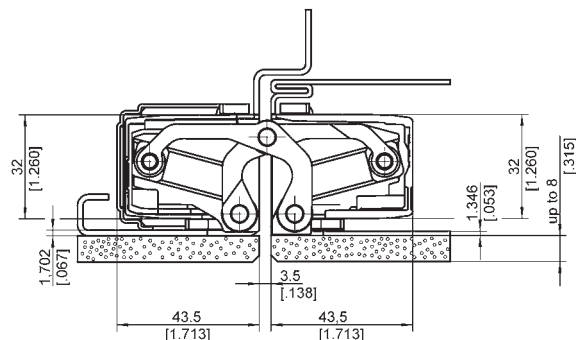
Receiver/Reinforcement steel frame: TE 540 3D A8 SZ

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

**TE 640 3D A8**

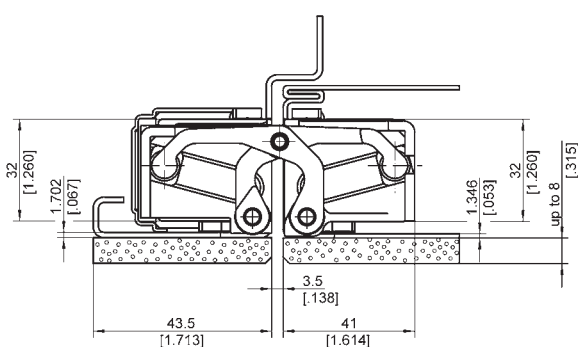
Receiver/Reinforcement steel frame: TE 640 3D A8 SZ

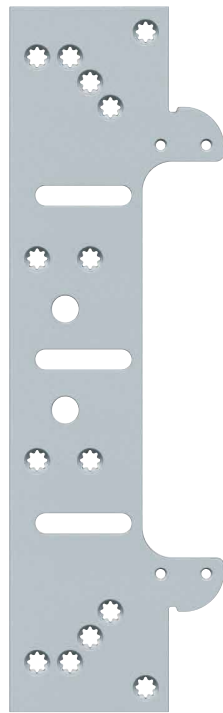
Receiver/Reinforcement steel door: TE 640 3D A8 ST

**TE 626 3D A8**

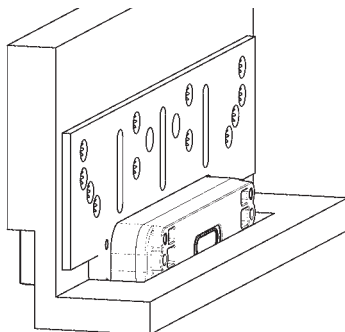
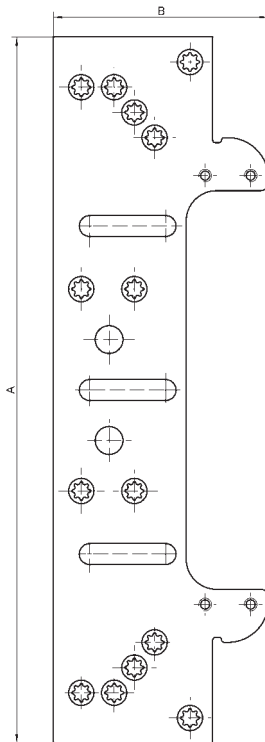
Receiver/Reinforcement steel frame: TE 626 3D A8 SZ

Receiver/Reinforcement steel door: TE 626 3D A8 ST





TE 540 3D FZ



## Fixing Plate TECTUS Series

For reinforcement of casing frames

Fixing		Casing frame
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### Finishes

galvanized (010)

### 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

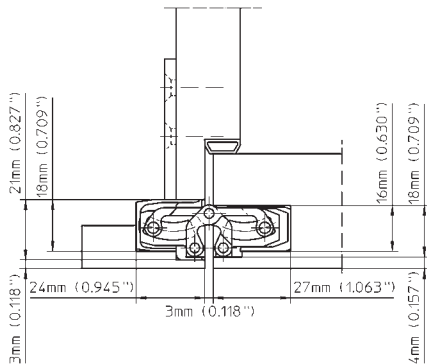
	A	B
TE 240 3D	160.0 mm (6.299")	70.0 mm (2.756")
TE 340 3D	200.0 mm (7.874")	85.5 mm (3.366")
TE 526 3D	180.0 mm (7.087")	80.0 mm (3.150")
TE 527 3D	180.0 mm (7.087")	80.0 mm (3.150")
TE 540 3D	280.0 mm (11.024")	85.0 mm (3.346")
TE 541 3D FVZ	280.0 mm (11.024")	85.0 mm (3.346")
TE 640 3D	280.0 mm (11.024")	85.0 mm (3.346")
TE 540 3D A8	280.0 mm (11.024")	85.0 mm (3.346")
TE 640 3D A8	280.0 mm (11.024")	85.0 mm (3.346")
TE 626 3D A8	280.0 mm (11.024")	85.0 mm (3.346")

## TECTUS®

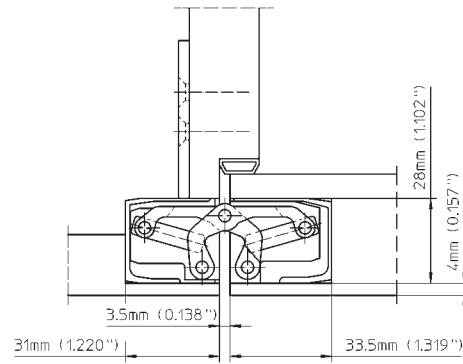
## Fixing Plate TECTUS Series

**TE 240 3D**

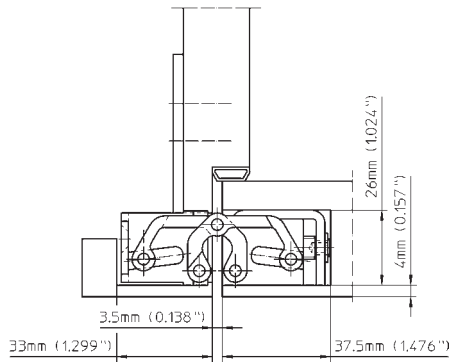
Fixing plate: TE 240 3D FZ/1

**TE 340 3D**

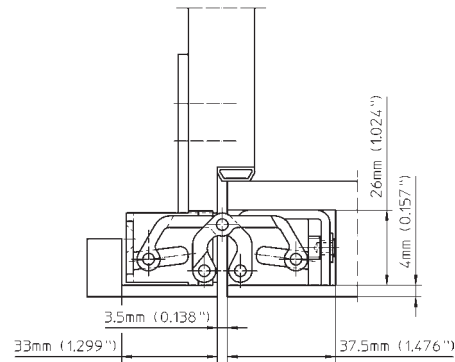
Fixing plate: TE 340 3D FZ

**TE 526 3D**

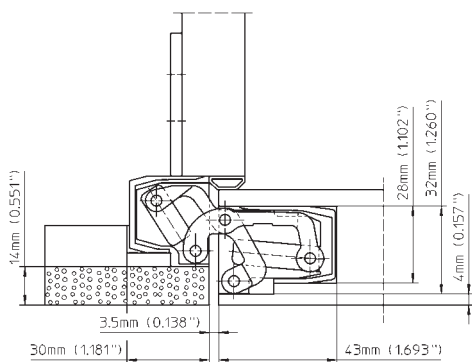
Fixing plate: TE 526/527 3D FZ/1

**TE 527 3D**

Fixing plate: TE 526/527 3D FZ/1

**TE 541 3D FVZ**

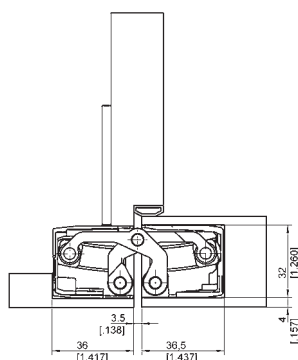
Fixing plate: TE 541 3D FVZ FZ/1



## Fixing Plate TECTUS for casing frames

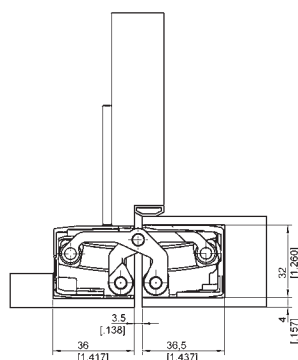
### TE 540 3D

Fixing plate: TE 540 3D FZ



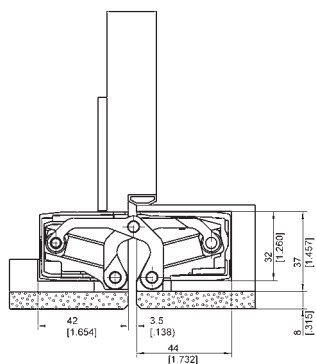
### TE 640 3D

Fixing plate: TE 640 3D FZ



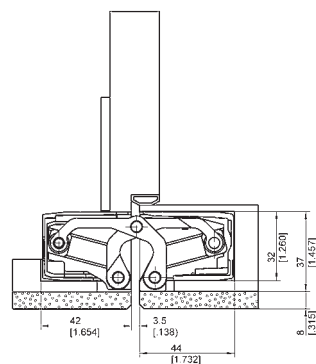
### TE 540 3D A8

Fixing plate: TE 540 3D FZ



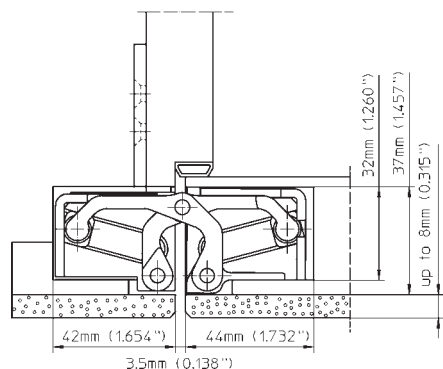
### TE 640 3D A8

Fixing plate: TE 640 3D FZ



### TE 626 3D A8

Fixing plate: TE 626 3D A8 FZ



# TECTUS®

## 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.

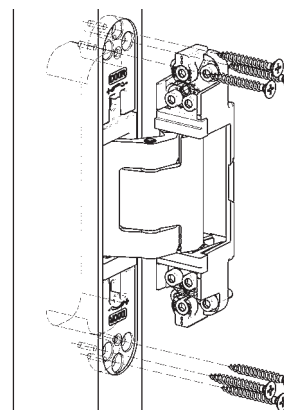
Fix cover plates with the enclosed screws.

### Application technology

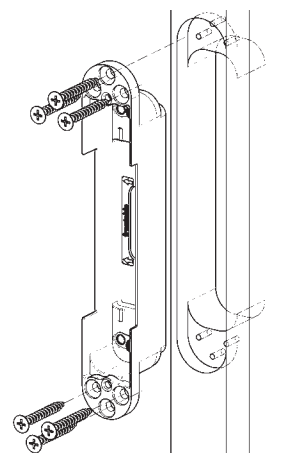
Use the Universal Milling Frame (jig) No. 118 along with the required routing templates.

Special Milling Frame (long) required for TE 645 3D.

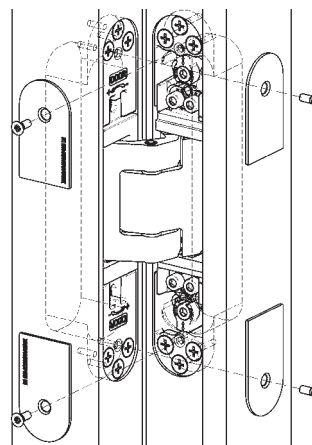
Drill jig for TE 526 3D and TE 527 3D available upon request.



TE 540 3D



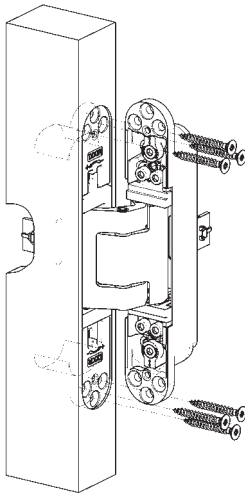
TE 540 3D



TE 540 3D



1



## Additional Installation for TECTUS Energy

Frame and door prep for raceway routing

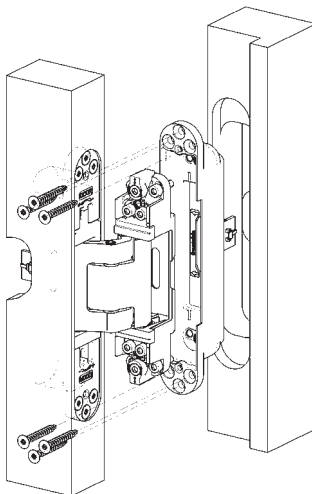
Perform additional routing for the cable on door panel and frame.  
Plug the connectors together and install the sash part.

1

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

2

2



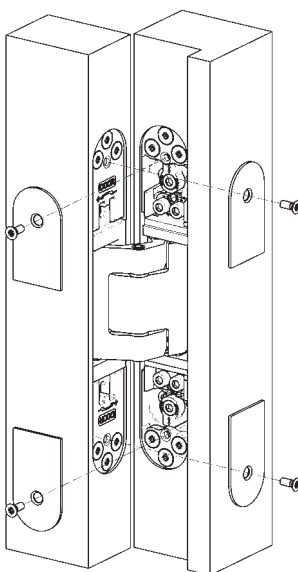
Make sure the plug connectors are engaged properly.

3

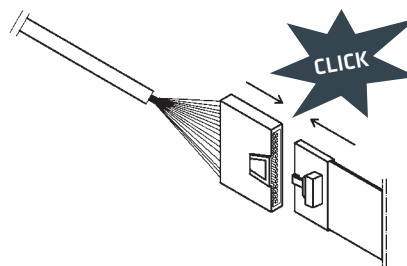
Screw the cover plates on by using the enclosed tapping screws onto frame and door  
part.

4

4



3



# TECTUS®

## Adjustment TECTUS Series

### 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

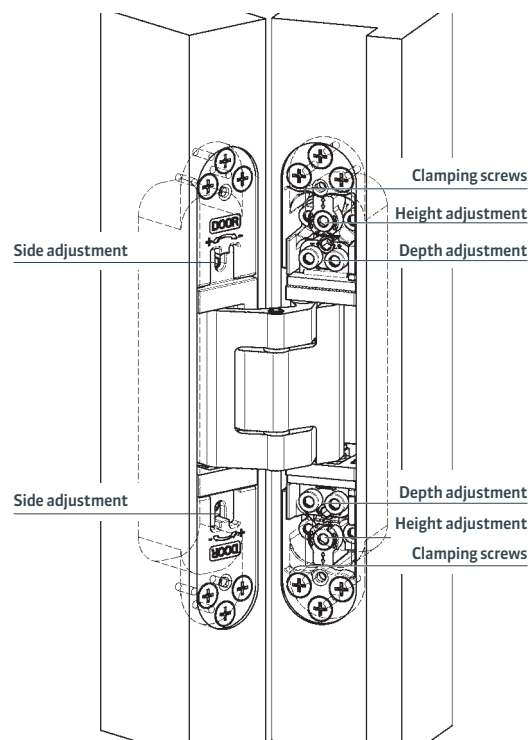
### Height adjustment (vertical)

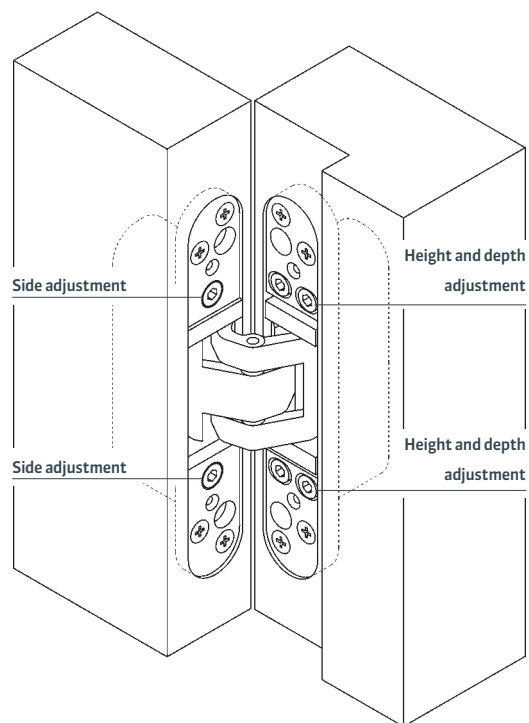
- Slightly loosen all four clamping screws on all hinges
  - Adjust the vertical position of the door
  - Turn the lower height adjustment screw clockwise for raising the door
  - Turn the lower height adjustment screw counterclockwise for lowering the door
- Note: Before raising the door make sure that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

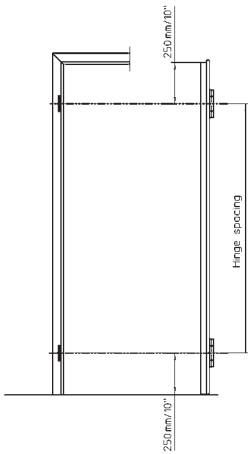
# HINGE POSITIONS

## TECTUS Series

To increase the load capacity of the hinges, a third hinge needs to be positioned 350 mm / 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.

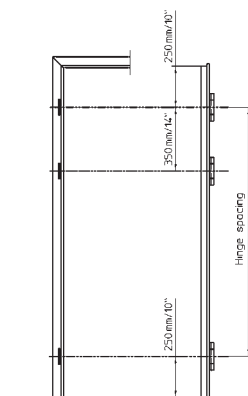
Proper preparation and alignment as well as tension-free adjustment are crucial for a hassle-free operation!

### Application with increased load capacity

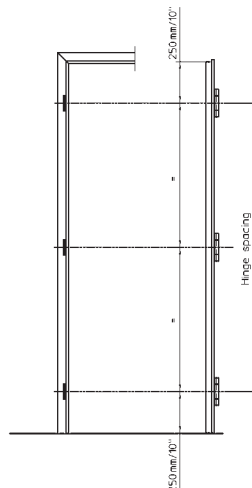


### Examples for applications with different door heights

< 8 ft



≥ 8 ft



The hinge spacing does not increase the load capacity!

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

## LOAD CAPACITIES

## 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 (78.8" x 39.4") (H x W), a positioning of 250 mm / 10" from the top and 250 mm / 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 250 mm / 10" from the top and 250 mm / 10" from the bottom to center of each hinge (see page 46).

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

REFERENCE VALUE **60 KG** / 132 lbs.

### TE 240 3D

### TE 240 3D Energy Kit

→ Door panel height in mm / inch	>2743 / 108	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132
	2591 / 102	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132
	2438 / 96	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	58 / 127
	2388 / 94	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	57 / 125
	2337 / 92	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	57 / 125
	2286 / 90	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	58 / 127	56 / 123	54 / 119
	2235 / 88	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	59 / 130	56 / 123	54 / 119	52 / 114
	2184 / 86	60 / 132	60 / 132	60 / 132	60 / 132	60 / 132	57 / 125	55 / 121	52 / 114	50 / 110
	2134 / 84	60 / 132	60 / 132	60 / 132	60 / 132	58 / 127	55 / 121	53 / 116	51 / 112	49 / 108
	2083 / 82	60 / 132	60 / 132	60 / 132	58 / 127	56 / 123	54 / 119	51 / 112	49 / 108	47 / 103
	2032 / 80	60 / 132	60 / 132	60 / 132	57 / 125	54 / 119	52 / 114	50 / 110	48 / 105	46 / 101
	1981 / 78	60 / 132	60 / 132	58 / 127	55 / 121	52 / 114	50 / 110	48 / 105	46 / 101	44 / 97
	≤ 914 / 36	965 / 38	1016 / 40	1067 / 42	1118 / 44	1158 / 46	1219 / 48	1270 / 50	1321 / 52	
	→ Door width in mm / inch									

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

### TE 340 3D

### TE 340 3D Energy Kit

→ Door panel height in mm / inch	>2743 / 108	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176
	2591 / 102	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176
	2438 / 96	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	78 / 171
	2388 / 94	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	79 / 174	76 / 167
	2337 / 92	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	76 / 167	74 / 163
	2286 / 90	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	77 / 169	74 / 163	71 / 156
	2235 / 88	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	78 / 171	75 / 165	72 / 158	69 / 152
	2184 / 86	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	76 / 167	73 / 160	70 / 154	67 / 147
	2134 / 84	80 / 176	80 / 176	80 / 176	80 / 176	77 / 169	74 / 163	71 / 156	68 / 149	65 / 143
	2083 / 82	80 / 176	80 / 176	80 / 176	77 / 169	75 / 165	72 / 158	69 / 152	66 / 145	63 / 137
	2032 / 80	80 / 176	80 / 176	80 / 176	75 / 165	72 / 158	69 / 152	66 / 145	64 / 141	61 / 134
	1981 / 78	80 / 176	80 / 176	77 / 169	73 / 160	70 / 154	67 / 147	64 / 141	62 / 136	59 / 130
	≤ 914 / 36	965 / 38	1016 / 40	1067 / 42	1118 / 44	1158 / 46	1219 / 48	1270 / 50	1321 / 52	
	→ Door width in mm / inch									

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

Values represent hinges positioned 250 mm / 10" from the top and 250 mm / 10" from the bottom to center of each hinge (see page 46).

# LOAD CAPACITIES

## Overview of load values for hinges

→ Door panel height in mm / inch	>2743 / 108	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220
	2591 / 102	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220
	2438 / 96	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	97 / 213
	2388 / 94	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	99 / 218	95 / 209
	2337 / 92	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	99 / 218	96 / 211	92 / 202
	2286 / 90	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	97 / 213	93 / 205	90 / 198
	2235 / 88	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	99 / 218	94 / 207	91 / 200	87 / 191
	2184 / 86	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	96 / 211	92 / 202	88 / 194	84 / 185
	2134 / 84	100 / 220	100 / 220	100 / 220	100 / 220	97 / 213	93 / 205	89 / 196	85 / 187	82 / 180
	2083 / 82	100 / 220	100 / 220	100 / 220	98 / 216	94 / 207	90 / 198	86 / 189	83 / 182	79 / 174
	2032 / 80	100 / 220	100 / 220	100 / 220	94 / 207	91 / 200	87 / 191	83 / 182	80 / 176	77 / 169
	1981 / 78	100 / 220	100 / 220	96 / 211	91 / 200	88 / 194	84 / 185	82 / 180	77 / 169	74 / 163
		≤ 914 / 36	965 / 38	1016 / 40	1067 / 42	1118 / 44	1158 / 46	1219 / 48	1270 / 50	1321 / 52

→ Door width in mm / inch

REFERENCE VALUE **100 KG** / 220 lbs.

**TE 541 3D FVZ**

**TE 540 3D A8**

**TE 540 3D A8 Energy Kit**

→ Door panel height in mm / inch	>2743 / 108	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264
	2591 / 102	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264
	2438 / 96	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	117 / 257
	2388 / 94	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	118 / 260	114 / 251
	2337 / 92	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	115 / 253	111 / 244
	2286 / 90	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	117 / 257	112 / 246	108 / 238
	2235 / 88	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	118 / 260	113 / 249	109 / 240	104 / 229
	2184 / 86	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	115 / 253	110 / 242	105 / 231	101 / 222
	2134 / 84	120 / 264	120 / 264	120 / 264	120 / 264	116 / 255	111 / 244	107 / 235	102 / 224	98 / 216
	2083 / 82	120 / 264	120 / 264	120 / 264	118 / 260	113 / 249	108 / 238	103 / 227	99 / 218	95 / 209
	2032 / 80	120 / 264	120 / 264	120 / 264	114 / 251	109 / 240	104 / 229	100 / 220	96 / 211	92 / 202
	1981 / 78	120 / 264	120 / 264	116 / 255	110 / 242	105 / 231	101 / 222	97 / 213	93 / 205	89 / 196
		≤ 914 / 36	965 / 38	1016 / 40	1067 / 42	1118 / 44	1158 / 46	1219 / 48	1270 / 50	1321 / 52

→ Door width in mm / inch

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**

→ Door panel height in mm / inch	>2743 / 108	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352
	2591 / 102	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352
	2438 / 96	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	156 / 343
	2388 / 94	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	158 / 348	152 / 335
	2337 / 92	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	154 / 339	148 / 326
	2286 / 90	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	155 / 341	149 / 328	144 / 317
	2235 / 88	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	158 / 348	151 / 332	145 / 319	140 / 308
	2184 / 86	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	153 / 337	147 / 324	141 / 310	135 / 297
	2134 / 84	160 / 352	160 / 352	160 / 352	160 / 352	155 / 341	149 / 328	142 / 313	137 / 302	131 / 288
	2083 / 82	160 / 352	160 / 352	160 / 352	156 / 343	150 / 330	144 / 317	138 / 304	132 / 291	127 / 278
	2032 / 80	160 / 352	160 / 352	160 / 352	153 / 337	146 / 321	139 / 306	134 / 295	128 / 282	123 / 271
	1981 / 78	160 / 352	160 / 352	158 / 348	148 / 326	141 / 310	135 / 297	129 / 284	124 / 273	119 / 262
		≤ 914 / 36	965 / 38	1016 / 40	1067 / 42	1118 / 44	1158 / 46	1219 / 48	1270 / 50	1321 / 52

→ Door width in mm / inch

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 250 mm / 10" from the top and 250 mm / 10" from the bottom to center of each hinge (see page 46).



## Overview of load values for hinges

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

→ Door panel height in mm / inch

TE 645 3D  
TE 626 3D A8  
TE 645 3D Energy Kit  
TE 626 3D A8 Energy Kit

→ Door panel height in mm / inch

Values represent hinges positioned 250 mm / 10" from the top and 250 mm / 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

### 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

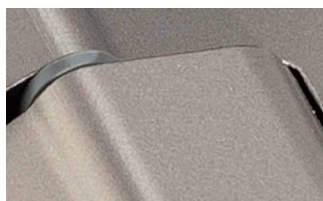


**047** satin brass

### Brushed Stainless Steel\*



**040** satin stainless steel



**126** stainless steel look (SSL)

\* The colors of the finishes shown may differ from the original.

# THE ORIGINAL – HINGE SYSTEMS FROM SIMONSWERK

SIMONSWERK is a leading manufacturer of heavy duty, high performance hinge systems, producing premium hinges for over 130 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.



# SERVICE - COMPREHENSIVE EXPERTISE

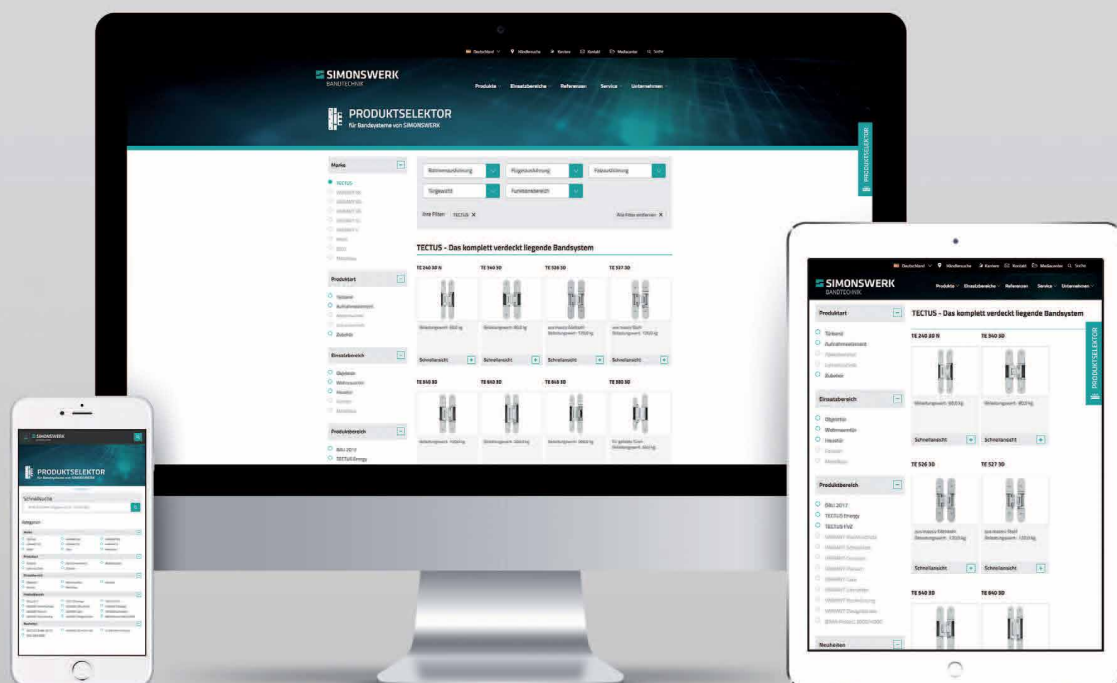
In an effort to provide a complete service experience, SIMONSWERK has made available any documentation needed to determine the most suitable hinge system. The SIMONSWERK website can supply any information in addition to this brochure. Brochures, data sheets, fitting instructions and milling data can 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.

## VISIT OUR PRODUCTSELECTOR

Whether a manufacturer, trade partner or designer, [www.simonswerk-usa.com](http://www.simonswerk-usa.com) offers precise, detailed product descriptions to assist in your search for the most suitable hinge system.





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## NOTES

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03/2020  
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