

It all hinges on excellence.

**SIMONSWERK**



## **TECTUS**

The completely concealed  
hinge system

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## TECTUS – the completely concealed hinge system

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## TECTUS – the completely concealed hinge system

“Making something invisible is also design!” There is a certain appeal in designing items in such a way that their actual value is initially in the background, thereby giving space to other elements. Flush mounting is a stylistic principle that exudes minimalism and involves precise technology and perfection. The TECTUS series of concealed hinges offers unsurpassed quality, versatility and depth. The completely concealed hinge system TECTUS has been an integral part of the SIMONSWERK range since 2002. Thanks to its ongoing development, TECTUS is today more innovative and efficient than ever.

### TECTUS – the advantages at a glance

- completely concealed hinge system
- for flush-fitting architectural structures
- with load capacity of 60 to 300 kg
- comfortable 3D adjustment
- with an opening angle of 180°
- for unrebbated and rebatted flush doors
- for rebatted doors
- for timber, steel and aluminium frames
- with maintenance-free slide bearing technology



## TECTUS – model versions from 60 to 300 kg

TECTUS hinges have impressive load-bearing capacities, being able to support door elements of up to 300 kg. They also have an opening angle of up to 180° and can be used with timber, steel and aluminium frames. The hinges can be adjusted in all three dimensions and require no maintenance. They are used on high-quality residential doors and functional heavy-duty doors in public buildings.

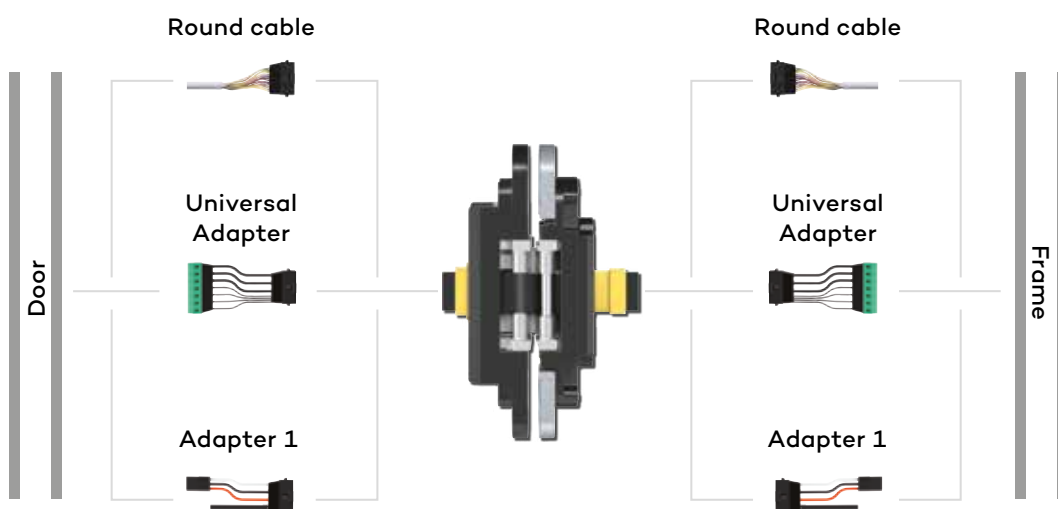
The wide range of finishes enables a variety of applications – they can be harmoniously tailored to an architectural concept and fittings and can completely blend into the background when the respective door is closed.





## TECTUS Energy – for permanent energy transfer

TECTUS Energy enables permanent energy transfer, without compromising on the design aspect of surface-flush appearances. It combines design, function and technology in an exemplary way and creates opportunities for new ideas. For fitting and operating electronic components in high-quality heavy-duty doors, the safe and permanent energy transfer is decisively important. TECTUS Energy secures the door leaf and permanently provides energy from the side of the frame without weakening the door or frame geometry. The technology provided together with TECTUS Energy offers compatibility with all standard versions of locks and fittings, while retaining all technical and optical features of the TECTUS product brand.



Großer Saal  
2. Rang rechts

Rangfolge



## Model versions for special applications

### **TECTUS A8 – for claddings up to 8 mm**

The “A8” versions provide new application possibilities as they can accommodate claddings of up to 8 mm on the door and frame construction. This gives the designer more scope when integrating the door element into the overall interior design concept.

### **TECTUS FVZ – for doors with recessed frame facings**

With TECTUS FVZ, a design where the frame part is offset to the sash part, it is possible to integrate a door with a completely concealed hinge into the surrounding wall without any visible frame. The frame facing can be set back by 12 or 14 mm, to allow the door and wall sets to create a flush-fitting whole.



## Model versions for special applications

### **TECTUS rebate**

#### **for rebated residential doors**

For rebated residential doors SIMONSWERK offers the TECTUS TE 380 3D. The concealed hinge system is completely invisible when the door is closed. The hinge joint's special geometry allows for installation in the rebated door leaf with a receiver in the wood, steel or aluminium frame.

#### **for rebated timber entrance doors**

With the product novelty TECTUS TE 680 3D FD SIMONSWERK has further developed the successful product brand TECTUS and offers with this new model version a solution for conventionally rebated timber entrance doors. Easy mounting and convenient 3D adjustment make installation easy, while a circumferential seal ensures the required level of impermeability around the hinges. The innovative hinge system for timber entrance doors further impresses with a load capacity of up to 160 kg. The TECTUS Energy version with permanent energy transfer is also available.

#### **TECTUS FR – with integrated intumescent kit**

The TECTUS FR model version is equipped with an integrated intumescent kit. Whilst maintaining all routing dimensions and optical features of the TECTUS, they provide the perfect basis for use on fire-resistant door elements. In case of a fire, the intumescent kit swells, sealing the door around the hinges, thereby protecting against fire and smoke escaping into a neighbouring room.



## Design meets function

### A full range of concealed hinges

For applications ranging from high-quality interior doors to heavy-duty doors with special requirements in terms of load capacity and performance, SIMONSWERK has for years provided a comprehensive product range including a wide choice of its completely concealed TECTUS brand.

All the models in the TECTUS brand completely concealed hinge range for high-quality interior and functional heavy-duty doors have the same technical and visual features, and can be used with timber, steel and aluminium frames. They all have a uniform appearance, with a closed hinge body that hides the milling from view, and are available in a range of materials and attractive surface finishes.



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Versions for special applications from page 22.



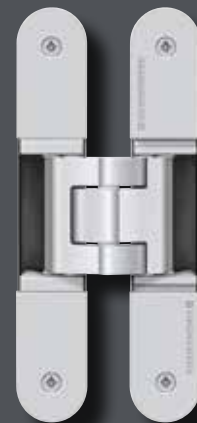
#### TE 240 3D

load capacity  
up to 60 kg



#### TE 340 3D

load capacity  
up to 80 kg



#### TE 440 3D

load capacity  
up to 100 kg

**TE 526 3D**

made of solid stainless steel  
load capacity up to 120 kg

**TE 527 3D**

made of solid steel  
load capacity up to 120 kg

**TE 540 3D**

load capacity  
up to 120 kg

**TE 640 3D**

load capacity  
up to 200 kg

**TE 645 3D**

load capacity  
up to 300 kg

## TECTUS

### TE 240 3D

for unrebated and rebated flush residential doors

**hinge** **up to 60 kg**

#### Product features

- completely concealed hinge system
- for timber, steel or aluminium frames
- for unrebated and rebated flush residential doors
- sideways closed hinge body for an aesthetically pleasing mortise appearance
- 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.5 mm)
- maintenance-free slide bearings

#### Technical details

load capacity	<b>i</b> two hinges per door leaf (1x2m)	60.0 kg
overall length		155.0 mm
width (frame part)		21.0 mm
width (door part)		18.0 mm
cutter diameter		16.0 mm
opening angle		180°

#### Finishes

polished brass (030), polished nickelled (038), satin brass (047), RAL 9016 Traffic White (070), RAL 9005 Matte Black (107), Satin Chrome Look (F1) (124) Satin Nickel Look (F2) (125), Stainless Steel Look (SSL) (126), Satin Nickel (144) Satin Chrome (146), Rustic Umber (156), Bronze Metallic (168), Bronze Finish (174), Bronze Finish light (175), Bronze Finish dark (176), other finishes available upon request

#### Combination

receiver	casing frame	TE 240 3D FZ
	steel frame	TE 240 3D SZ
	steel door	TE 240 3D ST

#### Installation tools

jig		universal milling frame
frame	template	No. 5 250691 6
door	template	No. 5 250692 6

#### Note

**i** The load capacity mentioned above refers to the use of two hinges per door leaf (1x2 m).

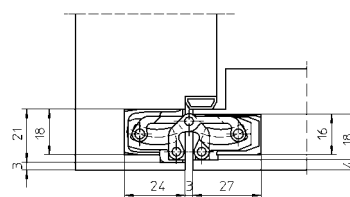
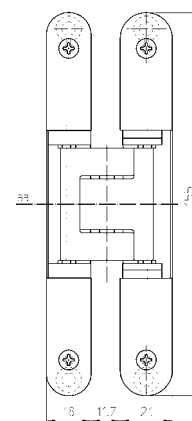
With an opening position of 180° the door may have to be fixed additionally.

#### Classification key

<b>3</b>	<b>7</b>	<b>3</b>	<b>1*1</b>	<b>1</b>	<b>—*2</b>	<b>0</b>	<b>10</b>
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\*1 Test evidence for functional doors to be achieved with full door sets and assemblies.

\*2 depending on the finish



# TECTUS

## TE 340 3D

for unrebated residential and heavy-duty doors



<b>hinge</b>	<b>up to 80 kg</b>
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### Product features

- completely concealed hinge system
- for timber, steel or aluminium frames
- for unrebated residential and heavy-duty doors
- sideways closed hinge body for an aesthetically pleasing mortise appearance
- comfortable 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.0 mm)
- maintenance-free slide bearings

### Technical details

load capacity	<b>i</b> two hinges per door leaf (1x2m)	80.0 kg
overall length		160.0 mm
width (frame part)		28.0 mm
width (door part)		28.0 mm
cutter diameter		24.0 mm
opening angle		180°

### Finishes

polished brass (030), polished nickelled (038), satin brass (047), RAL 9016 Traffic White (070), Grey Matte C37 (088), RAL 9005 Matte Black (107), Satin Chrome Look (F1) (124), Satin Nickel Look (F2) (125), Stainless Steel Look (SSL) (126), Satin Nickel (144), Satin Chrome (146), Rustic Umber (156), Bronze Metallic (168), Bronze Finish (174), Bronze Finish light (175), Bronze Finish dark (176) other finishes available upon request

### Combination

receiver	casing frame	TE 340 3D FZ
	steel frame	TE 340 3D SZ
	steel door	TE 340 3D ST

### Installation tools

jig		universal milling frame drilling jig TECTUS TE 340 3D
step 1	template	No. 5 250693 5
step 2	template	No. 5 250694 5

### Functional areas

fire resistance, smoke resistance, burglar resistance

### Note

**i** The load capacity mentioned above refers to the use of 2 hinges per door leaf (1x2 m).

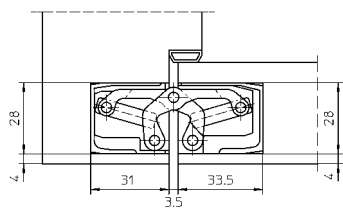
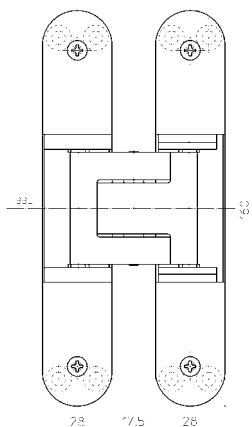
With an opening position of 180° the door may have to be fixed additionally. The suitability for fire doors depends on the door construction.

### Classification key

<b>3</b>	<b>7</b>	<b>4</b>	<b>1*1</b>	<b>1</b>	<b>—*2</b>	<b>0</b>	<b>11</b>
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\*1 Test evidence for functional doors to be achieved with full door sets and assemblies.

\*2 depending on the finish



Quality marks



Functional areas



## TECTUS

### TE 440 3D

for unrebated heavy-duty doors

**hinge** **up to 100 kg**

#### Product features

- completely concealed hinge system
- for timber, steel or aluminium frames
- for unrebated heavy-duty doors
- sideways closed hinge body for an aesthetically pleasing mortise appearance
- comfortable 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.0 mm)
- maintenance-free slide bearings

#### Technical details

load capacity	<b>i</b> two hinges per door leaf (1x2m)	100.0 kg
overall length		160.0 mm
width (frame part)		28.0 mm
width (door part)		28.0 mm
cutter diameter		24.0 mm
opening angle		180°

#### Finishes

polished brass (030), polished nickelled (038), satin brass (047), RAL 9016 Traffic White (070), RAL 9005 Matte Black (107), Satin Chrome Look (F1) (124), Satin Nickel Look (F2) (125), Stainless Steel Look (SSL) (126), Satin Nickel (144), Satin Chrome (146), Rustic Umber (156), Bronze Metallic (168), Bronze Finish (174), Bronze Finish light (175), Bronze Finish dark (176), other finishes available upon request

#### Combination

receiver	casing frame	TE 340 3D FZ
	steel frame	TE 340 3D SZ
	steel door	TE 340 3D ST

#### Installation tools

jig		universal milling frame drilling jig TECTUS TE 340 3D
step 1	template	No. 5 250693 5
step 2	template	No. 5 250694 5

#### Functional areas

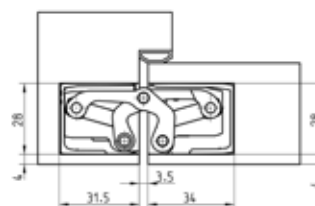
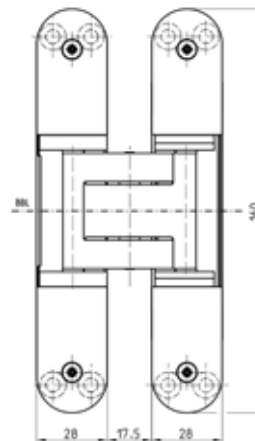
fire resistance, smoke resistance, burglar resistance

#### Note

**i** The load capacity mentioned above refers to the use of 2 hinges per door leaf (1x2 m).

With an opening position of 180° the door may have to be fixed additionally.

The suitability for fire doors depends on the door construction.



# TECTUS

## TE 526 3D

made of solid stainless steel for unrebated heavy-duty doors



**hinge** **up to 120 kg**

### Product features

- material stainless steel
- completely concealed hinge system
- for timber, steel or aluminium frames
- for unrebated heavy-duty doors
- 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.0 mm)
- maintenance-free slide bearings

### Technical details

load capacity	<b>i</b> two hinges per door leaf (1x2m)	120.0 kg
overall length		155.0 mm
width (frame part)		26.0 mm
width (door part)		26.0 mm
cutter diameter		24.0 mm
opening angle		180°

### Finishes

Satin Stainless Steel (040), pol. Stainless Steel (042), coloured (079)

### Combination

receiver	casing frame	TE 526/527 3D FZ
	steel frame	TE 526/527 3D SZ
	steel door	TE 526/527 3D ST

### Installation tools

jig		universal milling frame drilling jig TECTUS TE 526 3D
frame / door	template	No. 5 250547 6

### Functional areas

fire resistance, smoke resistance, soundproof, burglar resistance

### Note

**i** The load capacity mentioned above refers to the use of 2 hinges per door leaf (1x2 m).

With an opening position of 180° the door may have to be fixed additionally.

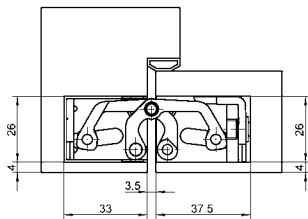
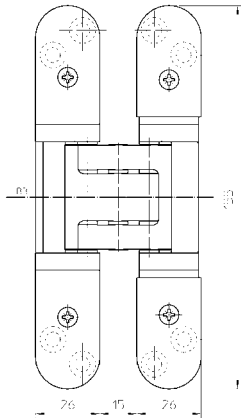
Also available in Satin Stainless Steel grade 316.

The suitability for fire doors depends on the door construction.

### Classification key

<b>4</b>	<b>7</b>	<b>6</b>	<b>1*1</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>13</b>
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\*1 Test evidence for functional doors to be achieved with full door sets and assemblies.



Quality marks



Functional areas



# TECTUS

## TE 527 3D

made of solid steel for unrebated heavy-duty doors

**hinge** **up to 120 kg**

### Product features

- material solid steel
- completely concealed hinge system
- for timber, steel or aluminium frames
- for unrebated heavy-duty doors
- 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.0 mm)
- maintenance-free slide bearings

### Technical details

load capacity	<b>i</b> two hinges per door leaf (1x2m)	120.0 kg
overall length		155.0 mm
width (frame part)		26.0 mm
width (door part)		26.0 mm
cutter diameter		24.0 mm
opening angle		180°

### Finishes

Stainless Steel Look (SSL) (126), coloured (079), other finishes available upon request

### Combination

receiver	casing frame	TE 526/527 3D FZ
	steel frame	TE 526/527 3D SZ
	steel door	TE 526/527 3D ST

### Installation tools

jig	universal milling frame
	drilling jig TECTUS TE 527 3D
frame / door	template No. 5 250547 6

### Functional areas

fire resistance, smoke resistance, soundproof, burglar resistance

### Note

**i** The load capacity mentioned above refers to the use of 2 hinges per door leaf (1x2 m).

With an opening position of 180° the door may have to be fixed additionally.

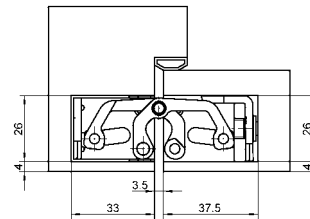
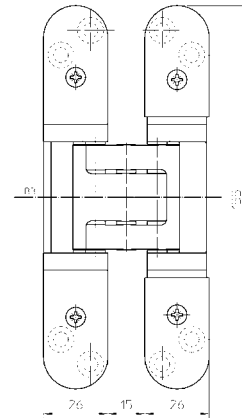
The suitability for fire doors depends on the door construction.

### Classification key

<b>4</b>	<b>7</b>	<b>6</b>	<b>1*1</b>	<b>1</b>	<b>—*2</b>	<b>1</b>	<b>13</b>
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\*1 Test evidence for functional doors to be achieved with full door sets and assemblies.

\*2 depending on the finish



# TECTUS

## TE 540 3D

for unrebated heavy-duty doors



**hinge** **up to 120 kg**

### Product features

- completely concealed hinge system
- for timber, steel or aluminium frames
- for unrebated heavy-duty doors
- sideways closed hinge body for an aesthetically pleasing mortise appearance
- comfortable 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.0 mm)
- maintenance-free slide bearings

### Technical details

load capacity	<b>i</b> two hinges per door leaf (1x2m)	120.0 kg
overall length		200.0 mm
width (frame part)		32.0 mm
width (door part)		32.0 mm
cutter diameter		24.0 mm
opening angle		180°

### Finishes

polished brass (030), polished nickelled (038), satin brass (047), RAL 9016 Traffic White (070), RAL 9005 Matte Black (107), Satin Chrome Look (F1) (124), Satin Nickel Look (F2) (125), Stainless Steel Look (SSL) (126), Satin Nickel (144), Satin Chrome (146), Rustic Umber (156), Bronze Metallic (168), Bronze Finish (174), Bronze Finish light (175), Bronze Finish dark (176), coloured (079), other finishes available upon request

### Combination

receiver	casing frame	TE 540 3D FZ
	steel frame	TE 540 3D SZ
	steel door	TE 540 3D ST

### Installation tools

jig		universal milling frame
step 1	template	No. 5 250680 5
step 2	template	No. 5 250681 5

### Functional areas

fire resistance, smoke resistance, soundproof, burglar resistance

### Note

**i** The load capacity mentioned above refers to the use of 2 hinges per door leaf (1x2 m).

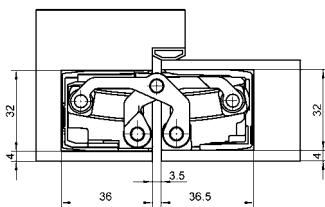
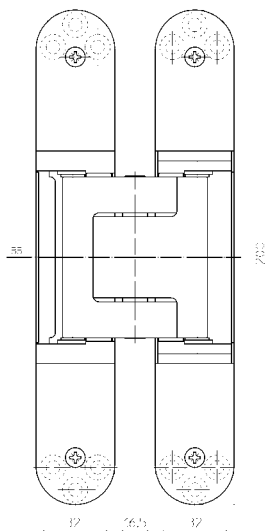
With an opening position of 180° the door may have to be fixed additionally. The suitability for fire doors depends on the door construction.

### Classification key

<b>4</b>	<b>7</b>	<b>6</b>	<b>1*1</b>	<b>1</b>	<b>—*2</b>	<b>1</b>	<b>13</b>
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\*1 Test evidence for functional doors to be achieved with full door sets and assemblies.

\*2 depending on the finish



Quality marks



Functional areas



## TECTUS

### TE 640 3D

for unrebated high performance heavy-duty doors

**hinge** **up to 200 kg**

#### Product features

- completely concealed hinge system
- for timber, steel or aluminium frames
- for unrebated high performance heavy-duty doors
- sideways closed hinge body for an aesthetically pleasing mortise appearance
- comfortable 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.0 mm)
- maintenance-free slide bearings

#### Technical details

load capacity	<b>i</b> two hinges per door leaf (1x2m)	200.0 kg
overall length		240.0 mm
width (frame part)		32.0 mm
width (door part)		32.0 mm
cutter diameter		24.0 mm
opening angle		180°

#### Finishes

polished brassed (030), polished nickelled (038), satin brassed (047), RAL 9016 Traffic White (070), RAL 9005 Matte Black (107), Satin Chrome Look (F1) (124), Satin Nickel Look (F2) (125), Stainless Steel Look (SSL) (126), Satin Nickel (144), Satin Chrome (146), Rustic Umber (156), Bronze Metallic (168), Bronze Finish (174), Bronze Finish light (175), Bronze Finish dark (176), coloured (079), other finishes available upon request

#### Combination

receiver	block frame	TE 640 3D BW
	casing frame	TE 640 3D FZ
	steel frame	TE 640 3D SZ
	steel door	TE 640 3D ST

#### Installation tools

jig		universal milling frame
step 1	template	No. 5 250659 5
step 2	template	No. 5 250689 5

#### Functional areas

fire resistance, smoke resistance, soundproof, burglar resistance

#### Note

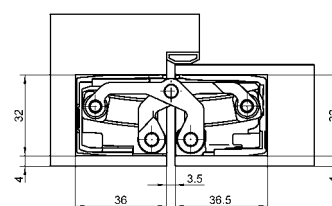
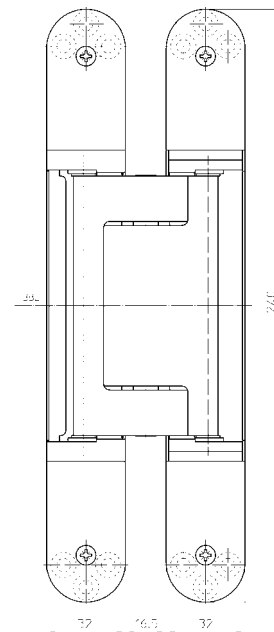
**i** The load capacity mentioned above refers to two hinges per door leaf (1x2 m). Also the load capacities of the respective combined receiver have to be taken into consideration. With an opening position of 180° the door may have to be fixed additionally. The suitability for fire doors depends on the door construction.

#### Classification key

<b>4</b>	<b>7</b>	<b>7</b>	<b>1*1</b>	<b>1</b>	<b>—*2</b>	<b>1</b>	<b>14</b>
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\*1 Test evidence for functional doors to be achieved with full door sets and assemblies.

\*2 depending on the finish



Quality marks



Functional areas



# TECTUS

## TE 645 3D

for unrebated high performance heavy-duty doors



<b>hinge</b>		<b>up to 300 kg</b>
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### Product features

- completely concealed hinge system
- for timber, steel or aluminium frames
- for unrebated high performance heavy-duty doors
- sideways closed hinge body for an aesthetically pleasing mortise appearance
- comfortable 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.0 mm)
- maintenance-free slide bearings

### Technical details

load capacity	<b>i</b> two hinges per door leaf (1x2m)	300.0 kg
width (frame part)		36.0 mm
width (door part)		34.0 mm
length (frame part)		280.0 mm
length (door part)		260.0 mm
cutter diameter		24.0 mm
opening angle		180°

### Finishes

satin brassed (047), RAL 9005 Matte Black (107), Satin Chrome Look (F1) (124), Satin Nickel Look (F2) (125), Stainless Steel Look (SSL) (126), other finishes available upon request

### Combination

receiver	steel frame	TE 645 3D SZ
	steel door	TE 645 3D ST

### Installation tools

jig		universal milling frame lang
frame, step 1	template	No. 5 250945 5
frame, step 2	template	No. 5 250946 5
door, step 1	template	No. 5 250947 5
door, step 2	template	No. 5 250948 5

### Functional areas

fire resistance, smoke resistance, soundproof, burglar resistance

### Note

**i** The load capacity mentioned above refers to two hinges per door leaf (1x2 m). Also the load capacities of the respective combined receiver have to be taken into consideration.

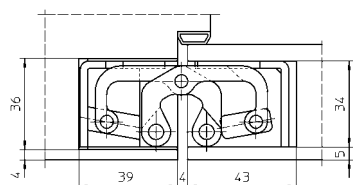
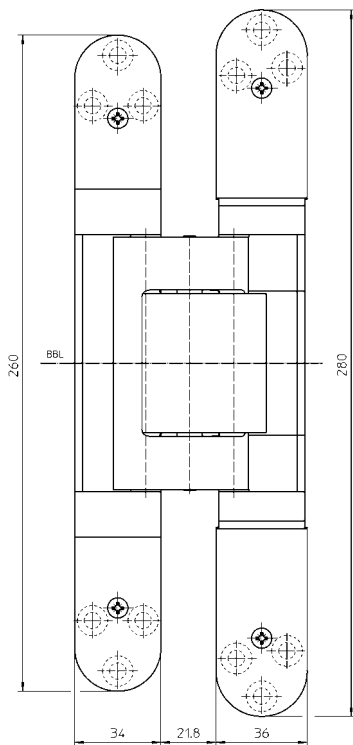
Application on steel frames is subject to special frame facings. With an opening position of 180° the door may have to be fixed additionally. The suitability for fire doors depends on the door construction.

### Classification key

<b>4</b>	<b>7</b>	<b>7</b>	<b>1*1</b>	<b>1</b>	<b>—*2</b>	<b>1</b>	<b>14</b>
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\*1 Test evidence for functional doors to be achieved with full door sets and assemblies.

\*2 depending on the finish



Quality marks



Functional areas



# TECTUS

## Versions for special applications

Special architectural situations, problematic spatial challenges or unusual planning tasks require individual solutions. The solutions presented here by SIMONSWERK complete the TECTUS product range.



### **TECTUS A8**

for doors with claddings up to 8 mm  
load capacities of 100 to 300 kg



### **TECTUS Energy**

with permanent energy transfer  
load capacities of 60 to 300 kg

**TECTUS FVZ**

for constructions with recessed  
frame facings  
load capacities of 60 to 100 kg

**TECTUS rebated**

for rebated doors  
load capacities up to 60 kg

**TECTUS TE 680 3D FD**

for rebated timber entrance doors  
load capacities up to 160 kg

**TECTUS FR**

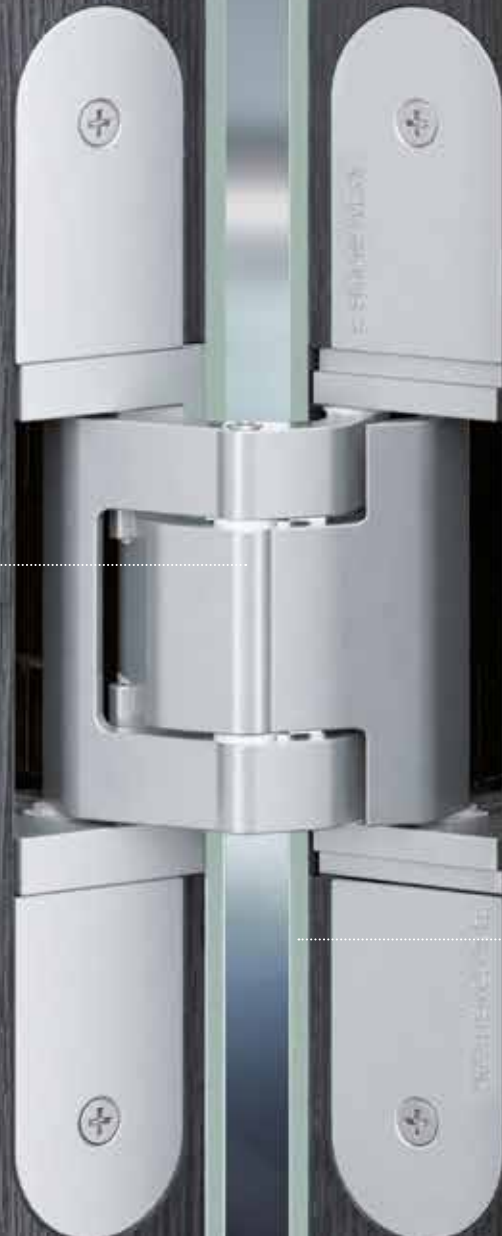
with integrated intumescent kit  
load capacities of 80 to 200 kg

## TECTUS A8

### Cladding on the door and frame construction

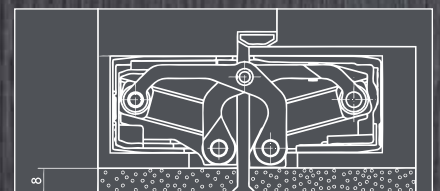
“A8” versions provide new application possibilities as they can accommodate claddings of up to 8 mm on the door and frame construction. This gives the designer more scope when integrating the door set into the overall interior design concept.

load capacity  
up to 300 kg



**for claddings on door and frame  
of up to 8 mm**

The use of different materials  
such as wood, glass, etc are  
possible within door and  
frame construction



# TECTUS

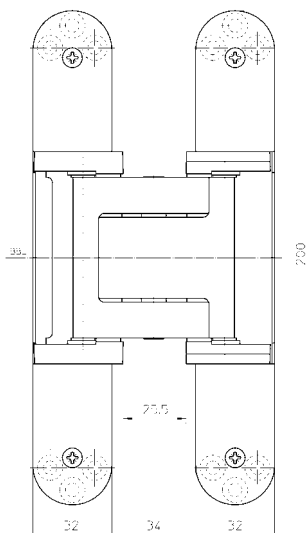
## TECTUS A8

for unrebated heavy-duty doors with claddings up to 8 mm

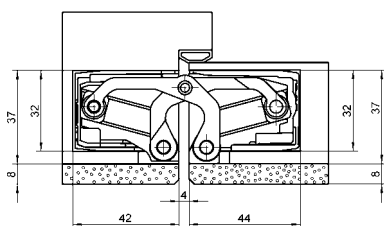
<b>hinge</b>	<b>cladding</b>	<b>100 – 300 kg</b>
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e.g. TE 540 3D A8



e.g. TE 540 3D A8



e.g. TE 540 3D A8

### Product features

- claddings up to 8 mm
- completely concealed hinge system
- for timber, steel or aluminium frames
- for unrebated heavy-duty doors
- sideways closed hinge body for an aesthetically pleasing mortise appearance
- comfortable 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.0 mm)
- maintenance-free slide bearings

### Finishes

Satin Stainless Steel (040) (TE 626 3D A8 only), Satin Chrome Look (F1) (124), Satin Nickel Look (F2) (125), Stainless Steel Look (SSL) (126), polished brass (030), polished nickelled (038), Bronze Finish (174), Bronze Finish Light (175), Bronze Finish Dark (176), coloured (079), other finishes available upon request

### Combination

receiver	block frame	TE 626/640 3D A8 BW/1
	casing frame	TE ... 3D FZ
	steel frame	TE ... 3D A8 SZ
	steel door	TE ... 3D A8 ST
accessories	cover plate set	TE 540/640 3D A8 radius

### Functional areas

fire resistance, smoke resistance, soundproof, burglar resistance

### Note

**i** The load capacity mentioned above refers to the use of two hinges per door leaf (1x2 m). Also the load capacities of the respective combined receiver have to be taken into consideration.

Application on steel frames is subject to special frame facings.

With an opening position of 180° the door may have to be fixed additionally.

The suitability for fire doors depends on the door construction.

### Classification key

Detailed information in our PRODUCTSELECTOR at [www.simonswerk.com](http://www.simonswerk.com)

### Available options

load capacity up to 100 kg	TE 540 3D A8
	TE 540 3D A8 Energy
load capacity up to 160 kg	TE 640 3D A8
	TE 640 3D A8 Energy
load capacity up to 300 kg	TE 626 3D A8
	TE 626 3D A8 Energy

Detailed information in our PRODUCTSELECTOR at [www.simonswerk.com](http://www.simonswerk.com)

Quality marks



Functional areas



## TECTUS Energy Integrated and permanent energy transfer

Energy transfer is crucially important in the installation and operation of electric components in high-quality doors. With TECTUS Energy, the door leaf receives a guaranteed and permanent energy supply from the frame, without weakening the structure of either the door or the frame. The technology provided by TECTUS Energy offers compatibility with all the most popular designs for locks and fittings.



### Clip

- secure connection between cable and hinge housing
- high functional reliability and fitness for purpose thanks to a closed system

### Adapter technology

- compatibility with all the most popular designs for locks and fittings
- three different plug connections (round cable, universal adapter, adapter 1)

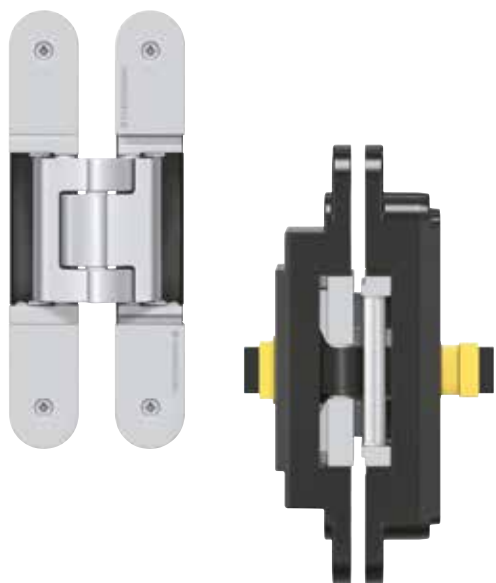
### Flat ribbon cable

- 16-wire ribbon cable
- integrated permanent energy transfer
- entirely enclosed in the housing (closed system)

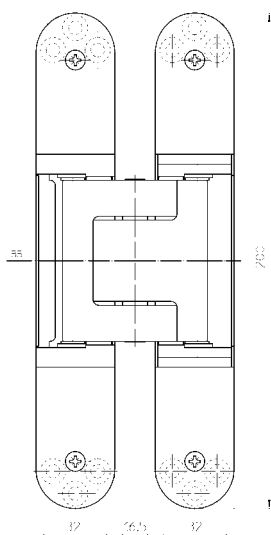
# TECTUS

## TECTUS Energy

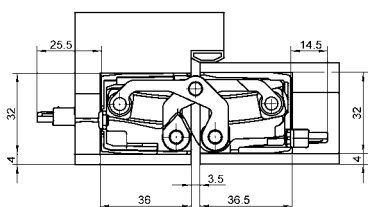
with permanent energy transfer for unrebated heavy-duty doors



eg. TE 540 3D Energy



eg. TE 540 3D Energy



eg. TE 540 3D Energy

<b>hinge</b>	<b>energy transfer</b>	<b>60 – 300 kg</b>
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### Product features

- with permanent energy transfer
- individual connection adapter options
- completely concealed hinge system
- for timber, steel or aluminium frames
- for unrebated heavy-duty doors
- comfortable 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.0 mm)
- maintenance-free slide bearings

### Technical details

no. of wires/wire cross section	16 pieces/0,14 mm <sup>2</sup>
max. voltage	50 V (voltage source acc. SELV-DIN EN 61140)
max. current	0,8 A (per wire)
opening angle	180°

### Finishes

Stainless Steel (040), RAL 9005 Matte Black (107), Satin Chrome Look (F1) (124), Satin Nickel Look (F2) (125), Stainless Steel Look (SSL) (126), other finishes available upon request

### Combination

receiver	casing frame	TE ... 3D FZ
	steel frame	TE ... 3D SZ
	steel door	TE ... 3D ST
accessories	<b>i</b> adapter TECTUS Energy	

### Functional areas

fire resistance, smoke resistance, soundproof, burglar resistance

### Note

**i** The load capacity mentioned above refers to the use of 2 hinges per door leaf (1x2 m).

**i** When ordering the accessories please consider: There are two connection adapters TECTUS Energy needed per hinge. A connection plan can be downloaded. With an opening position of 180° the door may have to be fixed additionally. The suitability for fire doors depends on the door construction.

### Classification key

Detailed information in our PRODUCTSELECTOR at [www.simonswerk.com](http://www.simonswerk.com)

### Available options

load capacity up to 60 kg	TE 240 3D Energy
load capacity up to 80 kg	TE 340 3D Energy
load capacity up to 100 kg	TE 540 3D A8 Energy
load capacity up to 120 kg	TE 526 3D Energy
	TE 540 3D Energy
load capacity up to 160 kg	TE 640 3D A8 Energy
load capacity up to 200 kg	TE 640 3D Energy
load capacity up to 300 kg	TE 645 3D Energy
	TE 626 3D A8 Energy

Detailed information in our PRODUCTSELECTOR at [www.simonswerk.com](http://www.simonswerk.com)

Quality marks



Functional areas



## TECTUS FVZ

### Integration of door set into surrounding wall without a visible frame

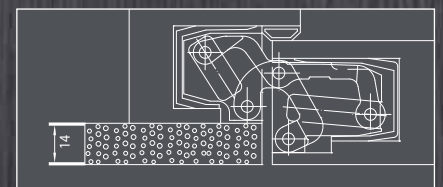
The model versions TECTUS FVZ where the frame part is offset to the leaf part enables a door with a completely concealed hinge to be integrated into the surrounding wall without any visible frame. The frame facing can be set back by 12 or 14 mm, to allow the door and wall sets to create a flush-fitting whole.

load capacity  
up to 100 kg



**for 12 or 14 mm  
recessed frame facings**

for a surrounding wall  
without a visible frame



# TECTUS

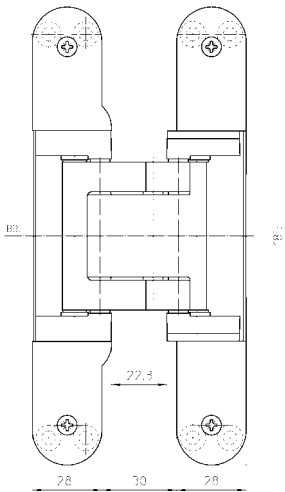
## TECTUS FVZ

for unrebated residential and heavy-duty doors with recessed frame facings

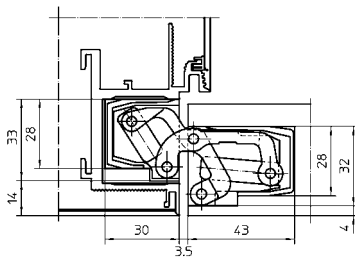
<b>hinge</b>	<b>recessed frame facings</b>	<b>60 – 100 kg</b>
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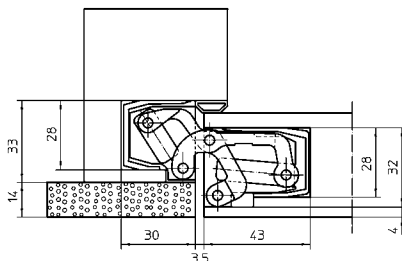
eg. TE 541 3D FVZ



eg. TE 541 3D FVZ



eg. TE 311 3D FVZ 40



eg. TE 541 3D FVZ

### Product features

- FVZ = recessed frame facings
- recessed frame facing 12.0 or 14.0 mm
- completely concealed hinge system
- for timber, steel or aluminium frames
- for unrebated heavy-duty doors
- sideways closed hinge body for an aesthetically pleasing mortise appearance
- comfortable 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.0 mm)
- maintenance-free slide bearings

### Finishes

polished brass (O30), polished nickelled (O38), satin brass (O47), RAL 9016 Traffic White (O70), RAL 9005 Matte Black (107), Satin Chrome Look (F1) (124), Satin Nickel Look (F2) (125), Stainless Steel Look (SSL) (126), Satin Nickel (144) Satin Chrome (146), Rustic Umber (156), Bronze Metallic (168), Bronze Finish (174), Bronze Finish light (175), Bronze Finish dark (176), other finishes available upon request

### Combination

receiver	casing frame	TE... 3D FVZ FZ
	steel frame	TE... 3D FVZ SZ
	steel door	TE... 3D FVZ ST

### Functional areas

fire resistance, smoke resistance, soundproof

### Note

**i** The load capacity mentioned above refers to the use of 2 hinges per door leaf (1x2 m).

With an opening position of 180° the door may have to be fixed additionally. The suitability for fire doors depends on the door construction.

### Classification key

Detailed information in our PRODUCTSELECTOR at [www.simonswerk.com](http://www.simonswerk.com)

### Available options

load capacity up to 60 kg	door thickness 40 mm	TE 311 3D FVZ 40
	door thickness 44 mm	TE 311 3D FVZ 44
load capacity up to 100 kg		TE 541 3D FVZ

Detailed information in our PRODUCTSELECTOR at [www.simonswerk.com](http://www.simonswerk.com)

Quality marks



Functional areas



## TECTUS rebated for rebated residential doors

SIMONSWERK also offers within the TECTUS brand a solution for rebated door leaf. The concealed hinge system is completely invisible when the door is closed. The hinge joint's special geometry allows for installation in the rebated door leaf with a receiver in the wood, steel or aluminium frame.



load capacity  
up to 60 kg

for rebated residential doors

# TECTUS

## TE 380 3D

for rebated residential doors

<b>hinge</b>	<b>rebated</b>	<b>up to 60 kg</b>
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### Product features

- completely concealed hinge system
- for timber, steel or aluminium frames
- for rebated residential doors
- sideways closed hinge body for an aesthetically pleasing mortise appearance
- comfortable 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.0 mm)
- maintenance-free slide bearings

### Technical details

load capacity	<b>i</b> two hinges per door leaf (1x2m)	60.0 kg
width (frame part)		26.0 mm
width (door part)		20.0 mm
length (frame part)		190.0 mm
length (door part)		160.0 mm
cutter diameter		20.0 mm
opening angle		180°

### Finishes

RAL 9016 Matte Traffic White (057), RAL 9005 Matte Black (107), Satin Chrome Look (F1) (124), Satin Nickel Look (F2) (125), Stainless Steel Look (SSL) (126), other finishes available upon request

### Combination

receiver	casing frame	TE 380 3D FZ
	steel frame	TE 380 3D SZ

### Installation tools

jig		universal milling frame
frame, step 1	template	No. 5 250955 5
frame, step 2	template	No. 5 250956 5
frame, step 3	template	No. 5 250957 5
door, step 1	template	No. 5 250958 5
door, step 2	template	No. 5 250959 5

Detailed information in our PRODUCTSELECTOR at [www.simonswerk.com](http://www.simonswerk.com)

### Note

**i** The load capacity mentioned above refers to the use of two hinges per door leaf (1x2 m).

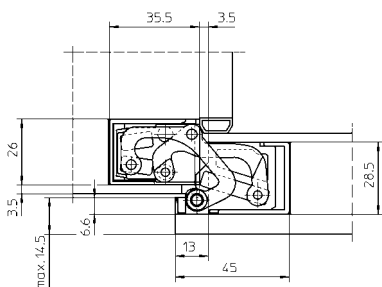
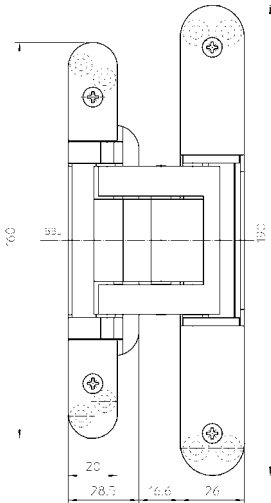
With an opening position of 180° the door may have to be fixed additionally.

### Classification key

<b>2</b>	<b>7</b>	<b>3</b>	<b>1*1</b>	<b>1</b>	<b>—*2</b>	<b>0</b>	<b>10</b>
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\*1 Test evidence for functional doors to be achieved with full door sets and assemblies.

\*2 depending on the finish



## TECTUS TE 680 3D FD for rebated entrance doors

With the new model version TECTUS TE 680 3D FD, SIMONSWERK offers a solution for conventional, rebated timber entrance doors. Easy mounting and comfortable 3D adjustment make installation easy, while a circumferential seal ensures the required level of impermeability around the hinges.

180 degrees  
opening angle

load capacity  
up to 160 kg

continuous  
sealing system

comfortable  
3D adjustment



# TECTUS

## TE 680 3D FD

for rebated entrance doors

<b>hinge</b>	<b>rebated</b>	<b>up to 160 kg</b>
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### Product features

- concealed hinge system
- for rebated entrance doors
- sideways closed hinge body for an aesthetically pleasing mortise appearance
- comfortable 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.5 mm)
- continuous sealing system
- 18 mm overlap width
- maintenance-free slide bearings

### Technical details

load capacity	<b>i</b> two hinges per door leaf (1x2m)	160.0 kg
width (frame part)		30.0 mm
width (door part)		40,5 mm
length (frame part)		250.0 mm
length (door part)		140.0 mm
cutter diameter		20.0 mm
opening angle		180°

### Finishes

RAL 9005 Matte Black (107), Satin Chrome Look (F1) (124), other finishes available upon request

### Combination

hinge	TE 680 3D FD Energy	
receiver	slim blind frame	TE 680 3D BZ
accessories	gasket	DS 7435

### Installation tools

jig	routing jig TE 680 3D FD serial routing jig TE 680 3D FD	
door	overlap 21, 22 mm	template Nr. 5 251109 5
	overlap 23 mm	template Nr. 5 251110 5
	overlap 24 – 27 mm	template Nr. 5 251111 5
frame	overlap 21 mm	template Nr. 5 251112 5
	overlap 22, 23 mm	template Nr. 5 251113 5
	overlap 24, 25 mm	template Nr. 5 251114 5
	overlap 26 mm	template Nr. 5 251115 5
	overlap 27 mm	template Nr. 5 251116 5

### Functional areas

burglar resistance

### Note

**i** The load capacity mentioned above refers to the use of two hinges per door leaf (1x2 m).

With an opening position of 180° the door may have to be fixed additionally.

### Classification key

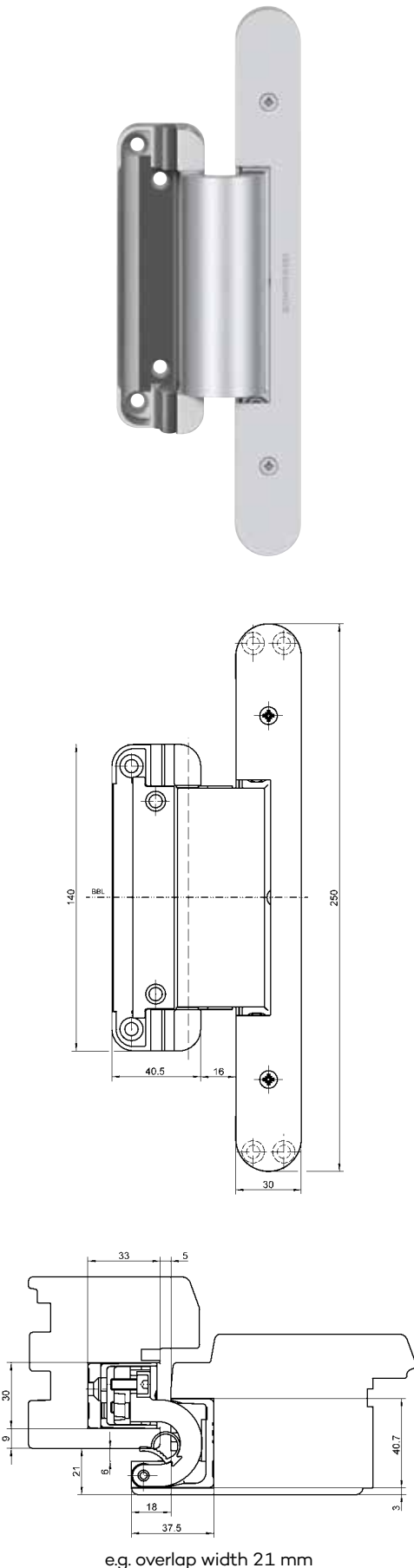
<b>4</b>	<b>7</b>	<b>7</b>	<b>0</b>	<b>1</b>	<b>—*1</b>	<b>1</b>	<b>14</b>
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\*1 depending on the finish

### Available options

TE 680 3D FD Energy

Detailed information in our PRODUCTSELECTOR at [www.simonswerk.com](http://www.simonswerk.com)



eg. overlap width 21 mm

Quality marks



Functional areas



## TECTUS FR with integrated intumescent kit

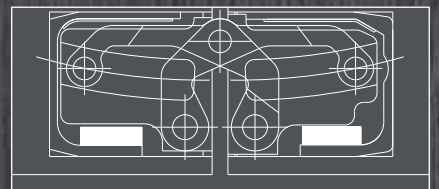
The TECTUS hinge system with integrated intumescent kit protects against fire and smoke escaping into a neighbouring room. In case of a fire, the intumescent kit swells, sealing the door around the hinges.

load capacity  
up to 200 kg



### with integrated intumescent kit

The intumescent kit seals the hinge mortise in case of a fire.



# TECTUS

## TECTUS FR

with integrated intumescent kit for unrebated heavy-duty doors

<b>hinge</b>	<b>fire resistance</b>	<b>80 – 200 kg</b>
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### Product features

- with integrated intumescent kit
- completely concealed hinge system
- for timber, steel or aluminium frames
- for unrebated heavy-duty doors
- sideways closed hinge body for an aesthetically pleasing mortise appearance
- comfortable 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.0 mm)
- maintenance-free slide bearings

### Finishes

Satin Chrome Look (F1) (124), Stainless Steel Look (SSL) (126), other finishes available upon request

### Combination

receiver	casing frame	TE ... 3D FZ
	steel frame	TE ... 3D SZ
	steel door	TE ... 3D ST

### Functional areas

fire resistance, smoke resistance, soundproof, burglar resistance

### Note

**i** The load capacity mentioned above refers to the use of 2 hinges per door leaf (1x2 m).

With an opening position of 180° the door may have to be fixed additionally. The suitability for fire doors depends on the door construction.

### Classification key

Detailed information in our PRODUCTSELECTOR at [www.simonswerk.com](http://www.simonswerk.com)

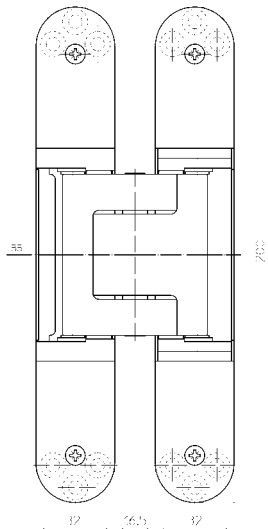
### Available options

load capacity up to 80 kg	TE 340 3D FR
load capacity up to 100 kg	TE 540 3D A8 FR
	TE 541 3D FVZ FR
load capacity up to 120 kg	TE 540 3D FR
load capacity up to 200 kg	TE 640 3D FR
load capacity up to 160 kg	TE 640 3D A8 FR

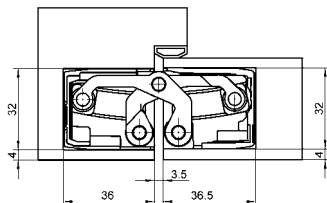
Detailed information in our PRODUCTSELECTOR at [www.simonswerk.com](http://www.simonswerk.com)



eg. TE 540 3D FR



eg. TE 540 3D FR



eg. TE 540 3D FR

Quality marks



Functional areas



# TECTUS

## TE 640 3D BW

mounting bracket for unrebeated heavy-duty doors with claddings up to 16 resp. 20 mm on both sides

receiver		block frame
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### Technical details

load capacity	<b>i</b> two hinges per door leaf (1x2m)	120.0 kg
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### Finishes

blue galvanized (010)

### Combination

hinge	TE 640 3D
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### Note

**i** The load capacity mentioned above refers to the use of two hinges per door leaf (1x2 m).

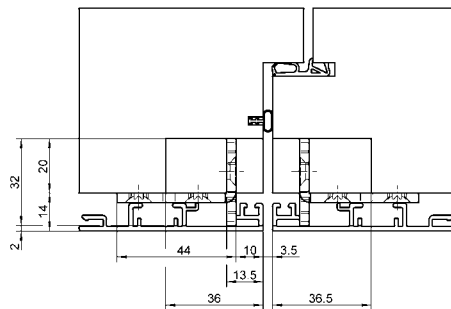
The cladding must be mortised in the hinge area.

Please specify the exact version in your order.

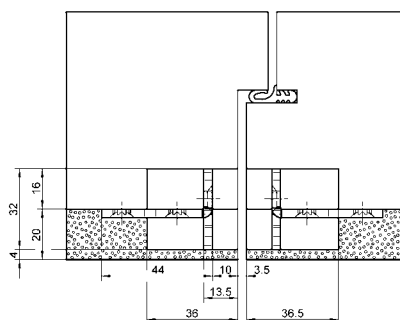
### Available options

claddings up to 16 mm	TE 640 3D BW 16
claddings up to 20 mm	TE 640 3D BW 20

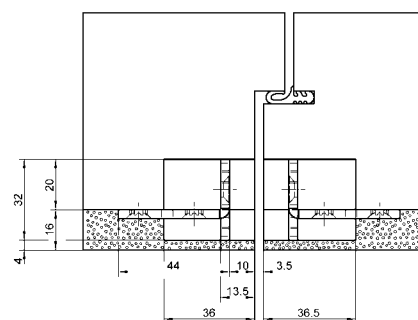
Detailed information in our PRODUCTSELECTOR at [www.simonswerk.com](http://www.simonswerk.com)



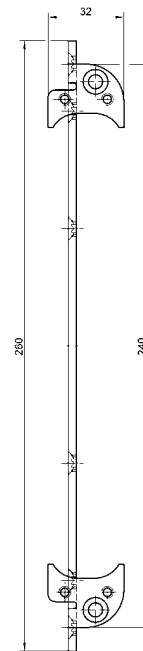
timber/aluminium system



claddings up to 20 mm



claddings up to 16 mm



## TECTUS

### TE 626/640 3D A8 BW/1

mounting bracket for unrebated heavy-duty doors with claddings up to 20mm on both sides



<b>receiver</b>		<b>block frame</b>
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#### Technical details

load capacity	160.0 kg
	(TE 626 3D A8 BW/1 in combination with TE 626 3D A8)
	120.0 kg
	(TE 640 3D A8 BW/1 in combination with TE 640 3D A8)

#### Finishes

Satin Stainless Steel (040), Satin Chrome Look (F1) (124)

#### Combination

hinge	TE 640 3D A8
	TE 626 3D A8
	TE 640 3D A8 Energy
	TE 626 3D A8 Energy
	TE 640 3D A8 FR

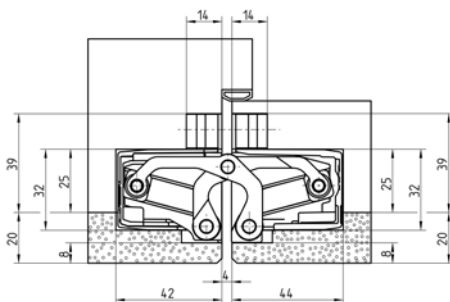
#### Note

**i** The load capacity mentioned above refers to the use of two hinges per door leaf (1x2 m).

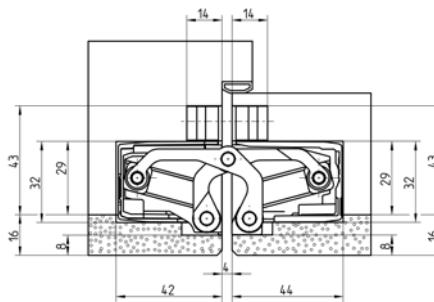
The cladding must be mortised in the hinge area.



eg. TE 640 3D A8 BW/1



eg. TE 640 3D A8 with TE 640 3D A8 BW/1



## TECTUS

### Fixing plate TE ... 3D FZ

for residential and heavy-duty doors with casing frames

receiver	casing frame
----------	--------------

#### Finishes

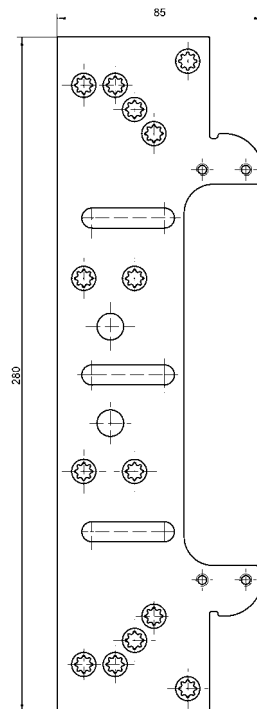
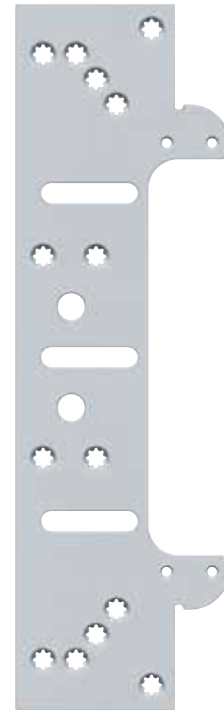
blue galvanized (010)

#### Combination

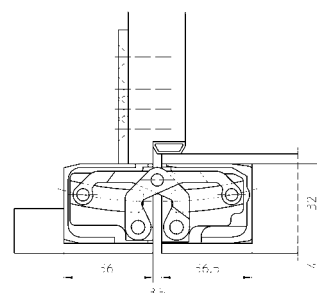
hinge	TE 240 3D
	TE 311 3D FVZ
	TE 340 3D
	TE 440 3D
	TE 380 3D
	TE 526 3D
	TE 527 3D
	TE 540 3D
	TE 541 3D FVZ
	TE 640 3D
	TE 540 3D A8
	TE 626 3D A8
	TE 640 3D A8
with energy transfer	TE 240 3D Energy
	TE 340 3D Energy
	TE 526 3D Energy
	TE 540 3D Energy
	TE 640 3D Energy
	TE 540 3D A8 Energy
	TE 640 3D A8 Energy
with intumescent kit	TE 340 3D FR
	TE 540 3D FR
	TE 541 3D FVZ FR
	TE 640 3D FR
	TE 540 3D A8 FR
	TE 640 3D A8 FR

#### Note

Spacers for casing thicknesses of 22-28 mm are included.  
Please specify the exact hinge in your order.



eg. TE 540 3D FZ/1

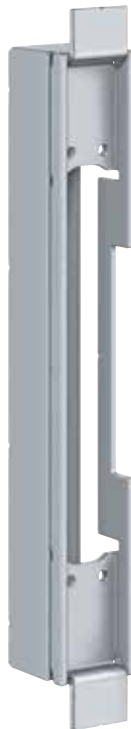


eg. TE 540 3D with TE 540 3D FZ/1

# TECTUS

## Receiver TE ... 3D SZ

for residential and heavy-duty doors with steel frames



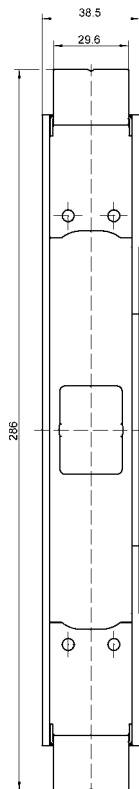
receiver	steel frame
----------	-------------

**Finishes**

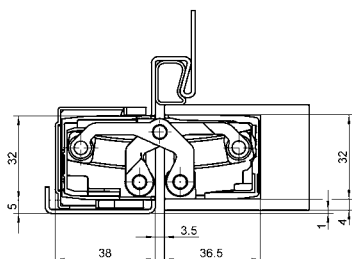
blue galvanized (010), Stainless Steel untreated (041)

**Combination**

hinge	TE 240 3D
	TE 311 3D FVZ
	TE 340 3D
	TE 440 3D
	TE 380 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 626 3D A8
	TE 640 3D A8
with energy transfer	TE 240 3D Energy
	TE 340 3D Energy
	TE 526 3D Energy
	TE 540 3D Energy
	TE 640 3D Energy
	TE 645 3D Energy
	TE 540 3D A8 Energy
	TE 626 3D A8 Energy
	TE 640 3D A8 Energy
	with intumescent kit
TE 540 3D FR	
TE 541 3D FVZ FR	
TE 640 3D FR	
TE 540 3D A8 FR	
TE 640 3D A8 FR	



eg. TE 540 3D SZ



eg. TE 540 3D with TE 540 3D SZ/1

**Note**

Please specify the exact hinge in your order.

# TECTUS

## Receiver TE ... 3D ST

for steel doors

receiver

steel door

### Finishes

blue galvanized (010)

### Combination

hinge

TE 240 3D

TE 340 3D

TE 440 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

with energy transfer

TE 240 3D Energy

TE 340 3D Energy

TE 526 3D Energy

TE 540 3D Energy

TE 640 3D Energy

TE 540 3D A8 Energy

TE 640 3D A8 Energy

with intumescent kit

TE 340 3D FR

TE 540 3D FR

TE 541 3D FVZ FR

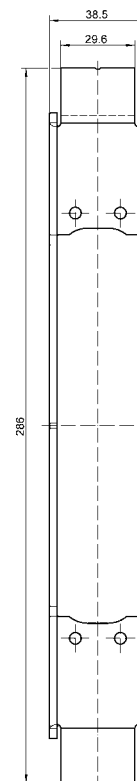
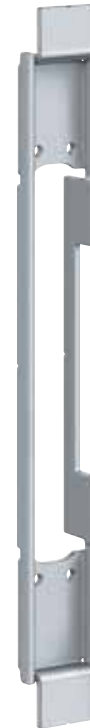
TE 640 3D FR

TE 540 3D A8 FR

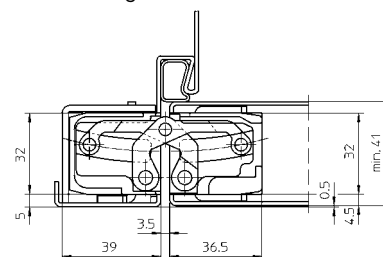
TE 640 3D A8 FR

### Note

Please specify the exact hinge in your order.



eg. TE 540 3D ST



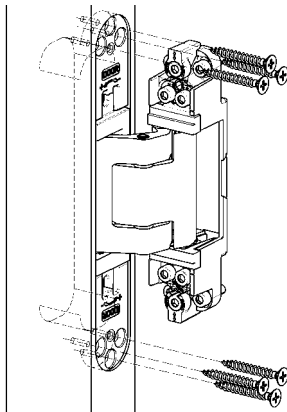
eg. TE 540 3D with TE 540 3D ST

## Assembly

### TECTUS series

#### door

Fix door part with enclosed wood screws.



eg. TE 540 3D

#### frames

##### Block frame

Conduct routing, cutter 24 mm Ø (TE 240 3D cutter 16 mm Ø) and collar ring 30 mm Ø, affix frame part with enclosed wood screws.

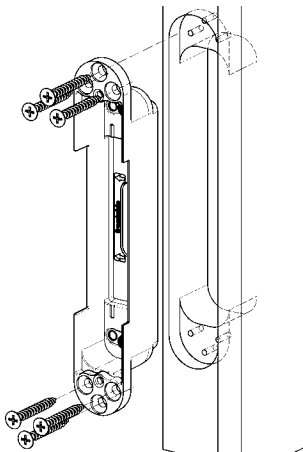
##### Casing frame

To guarantee a stable mounting the use of an additional fixing plate is required. Affix the fixing plate behind the casing. Affix the hinge by using enclosed M5 screws.

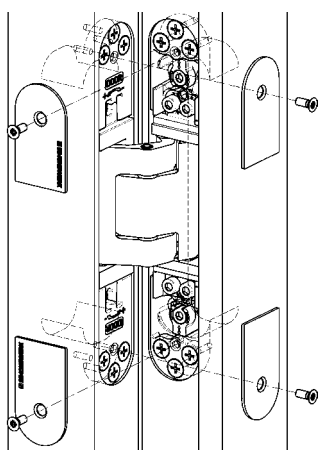
##### Steel frame

Affix frame part of the hinge with the prepared receiver inside the door frame by using the enclosed M5 screws.

Fix cover plates on the frame and door part by means of the enclosed screws.



eg. TE 540 3D



eg. TE 540 3D

## Adjustment

### TECTUS series

#### Three-dimensionally, continuously adjustable

side	+/- 3.0 mm
height	+/- 3.0 mm
compression	+/- 1.0 mm

#### Side adjustment

- adjust the adjusting spindles using an Allen wrench

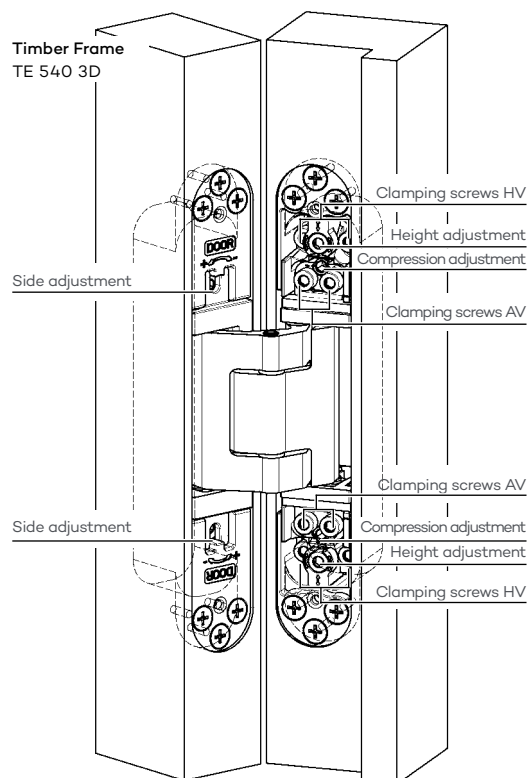
#### Height adjustment

- slightly loosen the clamping screws
- adjust the vertical position of the door by turning the lower height adjustment screw (turn the upper height adjustment screw in the opposite direction if necessary)
- retighten the clamping screws

#### Compression adjustment

- slightly loosen the fixing screws
- put the door to the correct compression by using the compression screw
- retighten the clamping screws

All adjustments to be conducted by means of a 4 mm Allen wrench.

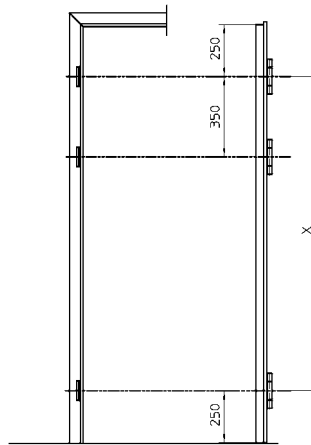


# Hinge Positions

## TECTUS Series

The use of a third hinge can significantly influence the load capacity. Frequently, a third hinge is positioned centred between the two outer hinges in order to meet visual requirements and to ensure the sealing pressure in the middle of the door. Under certain circumstances, however, it may be useful or necessary to support the upper hinge where the main tensile forces occur. This could be the case for over-wide doors (> 1000 mm) where additional forces occur due to the leverage. In such cases, the third hinge has to be positioned in the upper third, as this is the only way to positively influence the load capacity. The door norm recommends the use of a third hinge 350 mm below the upper hinge.

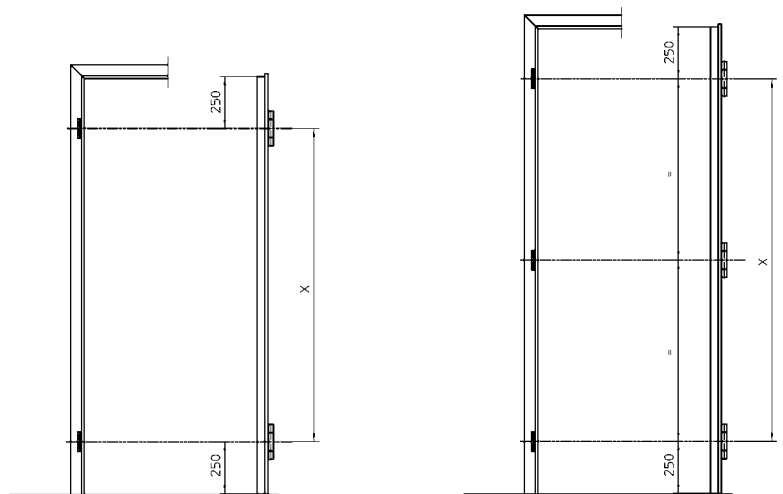
Application with increased load capacity or overhead door closers



Examples for applications with different door heights

< 2.40 m

≥ 2.40 m



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

## Finishes

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The colours of the finishes shown may differ from the original.  
 Delivery time/product version must be clarified individually.  
 Other finishes available upon request.



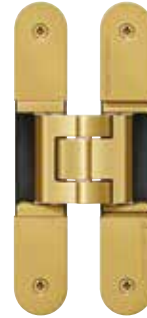
polished brassed (030)



polished nickelled (038)



Satin Stainless Steel (040)



satin brassed (047)



RAL 9016 Traffic White (070)



RAL 9005 Matte Deep Black (107)



Satin Chrome Look (124)



Satin Nickel Look (125)



Stainless Steel Look (126)



Satin Nickel (144)



Satin Chrome (146)



Rustic UMBER (156)



Bronze Metallic (168)



Bronze Finish (174)



Bronze Finish Light (175)



Bronze Finish Dark (176)

## Service – comprehensive expertise for your daily work

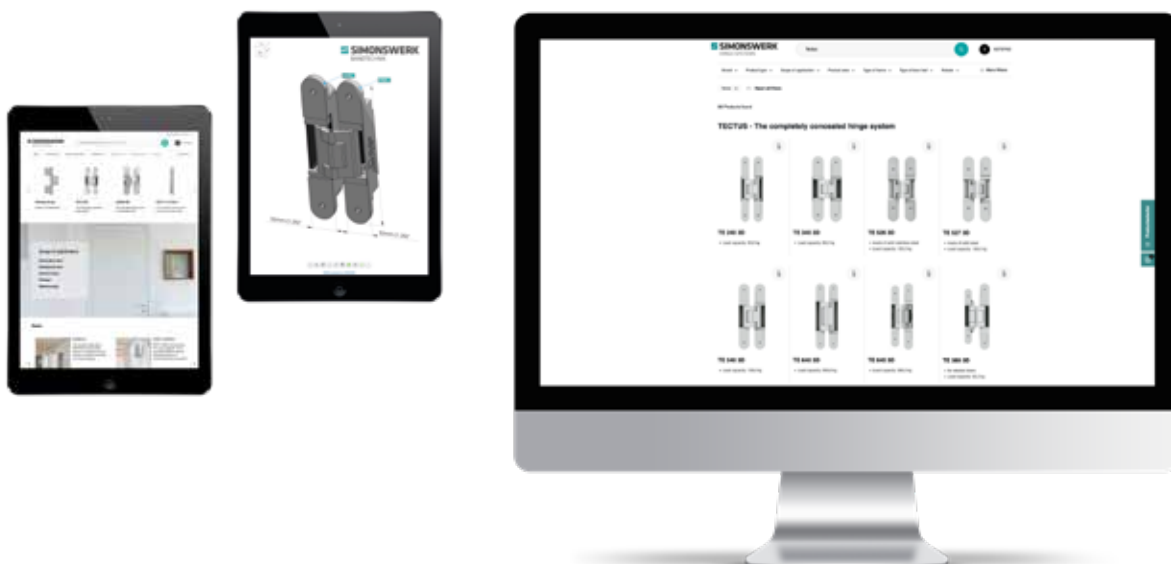
We are happy to provide you with all the documentation you need to choose the most suitable hinge system for your requirements. Please contact us: we would be delighted to work with you to choose the best solution – from high-quality standard sets right up to the most complex solutions.

All our brochures and data sheets can be requested in a printed version, or you can simply download them on the spot – and the same applies to our fitting instructions, declarations of performance and CAD data.

### Visit our **PRODUCTSELECTOR**

Whether you are a manufacturer, trade partner or designer, at [www.simonswerk.com](http://www.simonswerk.com) you can find precise, detailed product descriptions that will help you to choose the most suitable hinge systems.

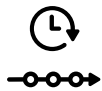
[www.simonswerk.com](http://www.simonswerk.com)



## SIMONSWERK GROUP – excellence in product and service

As an internationally operating group of companies, the SIMONSWERK GROUP is the global market leader for premium hinge systems. With over 900 employees worldwide, we stand for the highest quality standards, constant willingness to innovate and long-lasting customer relationships.

The SIMONSWERK brand combines the entire expertise in hinge systems and unites technical know-how with design standards at the highest level. In addition to innovative product solutions, we offer our customers the best service exactly where it is needed. From personal customer consultations and competent training courses to customised delivery and logistics processes or digital service tools.



### **Over 135 years of experience**

The perfect foundation for continuous growth with experience



### **Internationally successful**

As the market leader, we are constantly expanding our know-how



### **Over 900 employees worldwide**

Every single employee shapes the vision of the SIMONSWERK GROUP



### **Focused product solutions**

With high-quality hinge systems for heavy-duty, residential and entrance doors, we offer product solutions for all applications and materials

**For our customers and partners**

As SIMONSWERK GROUP, we are active in a variety of business models. Both in the construction project business and in cooperation with door manufacturers as well as with hardware dealers and processors, we develop perfect solutions, depending on individual market needs. We will provide our customers and decision-makers with the best possible support as a partner in accordance with their various requirements.



# SIMONSWERK

## TECTUS

The completely concealed hinge system

### SIMONSWERK GmbH

Bosfelder Weg 5  
33378 Rheda-Wiedenbrück  
Germany

+49 5242 4130

info@simonswerk.com

[www.simonswerk.com](http://www.simonswerk.com)

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