It all hinges on excellence.

SIMONSWERK

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TECTUS

The completely concealed hinge system

2

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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 it 's 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 unrebated and rebated flush doors
- for rebated doors
- for timber, steel and aluminium frames
- with maintenance-free slide bearing technology





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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.

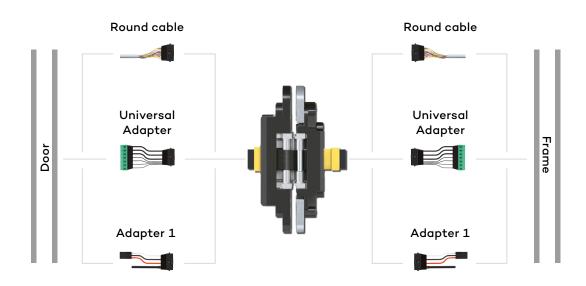






TECTUS Energy – for permanent energy transfer

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 highquality 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.



+ Rangfoyer

AM REALIZED REALIZED

9

Großer Saal 2. Rang rechts

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.

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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 heavyduty 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 80kg



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

TE 240 3D

for unrebated and rebated flush residential doors

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 a homogeneous mortise appearance
- 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.5 mm)
- maintenance-free slide bearings

Technical details

| load capacity | i 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 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), 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 $(1 \times 2 \text{ m})$.

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

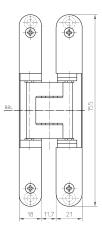
Classification key

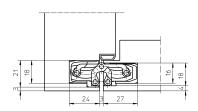
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|--|---|---|-------------|---|-------------|---|---|
| *1 Test suidenes for functional deers to be achieved with full deer esta | | | | | | | |

*1 Test evidence for functional doors to be achieved with full door sets and assemblies.

 $^{\ast 2}$ depending on the finish



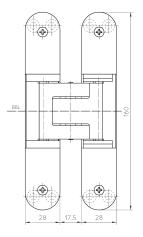


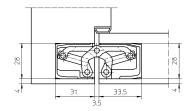


hinge









TE 340 3D

for unrebated residential and heavy-duty doors

| hinge | up to 80 kg |
|-------|-------------|
| | |

Product features

- completely concealed hinge system
- for timber, steel or aluminium frames
- for unrebated residential and heavy-duty doors
- sideways closed hinge body for a homogeneous 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 | i 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 brassed (030), polished nickelled (038), satin brassed (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

| ng jig TECTUS TE 340 3D |
|-------------------------|
| |
| No. 5 250693 5 |
| No. 5 250694 5 |
| |

Functional areas

fire resistance, smoke resistance, burglar resistance

Note

 \mathbf{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

Quality marks

| 3 7 4 | 1*1 | 1 | *2 | 0 | 11 |
|-------|-----|---|----|---|----|
|-------|-----|---|----|---|----|

*1 Test evidence for functional doors to be achieved with full door sets and assemblies.

*2 depending on the finish





warringtonfire

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 i 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 |
| cutter diameter when using intumescent kit | 25.0 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 |
| Intumescent kit | | Ref. 8820 |

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 two hinges per door leaf (1x2 m).

Test evidence for functional doors to be achieved with full door sets. With an opening position of 180° the door may have to be fixed additionally. Also available in Satin Stainless Steel grade 316.

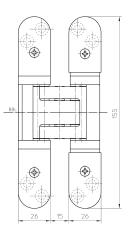
Ref. 8820 intumescent kit (available from SIMONSWERK UK) for use on El 60 fire doors. The use of the intumescent kits require enlarged mortices.

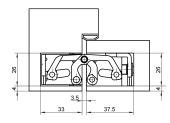
Classification key

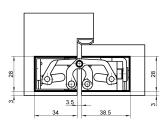
| 4 | 7 | 6 | 1 *1 | 1 | 4 | ο | 13 |
|---|---|---|-------------|---|---|---|----|

*1 Test evidence for functional doors to be achieved with full door sets and assemblies.









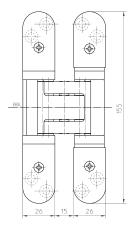
Cross section for TE 526 3D with intumescent kit Ref. 8820

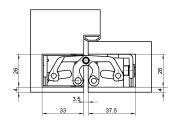


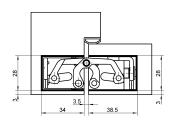
Quality marks











Cross section for TE 527 3D with intumescent kit Ref. 8820

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 i 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 |
| cutter diameter when using intumescent kit | 25.0 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 |
| Intumescent kit | | Ref. 8820 |
| | | |

Installation tools

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

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).

Test evidence for functional doors to be achieved with full door sets. With an opening position of 180° the door may have to be fixed additionally. Ref. 8820 intumescent kit (available from SIMONSWERK UK) for use on El 60 fire doors. The use of the intumescent kits require enlarged mortices.

Classification key

| 4 7 6 1 ^{*1} 1 - ^{*2} 0 13 |
|--|
|--|

*1 Test evidence for functional doors to be achieved with full door sets and assemblies.

*2 depending on the finish



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 a homogeneous 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 | i 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 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 | 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 two hinges per door leaf (1x2 m).

Test evidence for functional doors to be achieved with full door sets. With an opening position of 180° the door may have to be fixed additionally.

Classification key

| 4 | 7 | 6 | 1*1 | 1 | — *2 | 1 | 13 |
|---|---|---|-----|---|-------------|---|----|
| | | | | | | | |

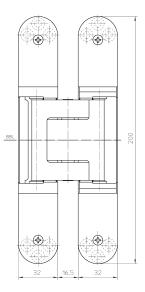
*1 Test evidence for functional doors to be achieved with full door sets and assemblies.

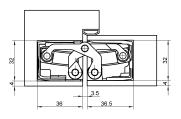
 $^{\ast 2}$ depending on the finish



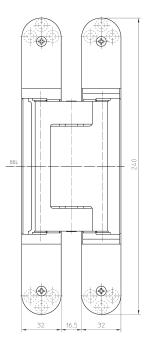


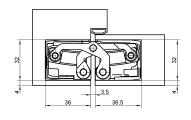












TE 640 3D

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

Classification key 4 7 6 1*1 1 -*2 1 14 *1 Test ovidence for functional dears to be achieved with full dear sets

*1 Test evidence for functional doors to be achieved with full door sets and assemblies.

*2 depending on the finish







TE 645 3D

for unrebated high performance heavy-duty doors

up to 300 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 a homogeneous 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 i | 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 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.

Test evidence for functional doors to be achieved with full door sets. Application on steel frames is subject to special frame facings.

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

Classification key

| 4 | 7 | 7 | 1*1 | 1 | * ² | 1 | 14 |
|----------------|---|---|-----|-----|----------------|---|----|
| *1 · · | | | | 1.1 | | | |

*1 Test evidence for functional doors to be achieved with full door sets and assemblies.

 $^{\ast 2}$ depending on the finish

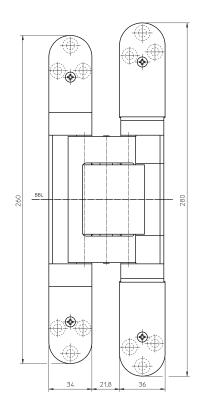
Quality marks

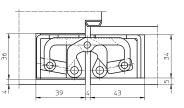
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ift









hinge



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 24

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.

7

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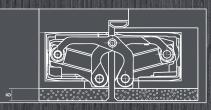
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-

load capacity up to 300 kg

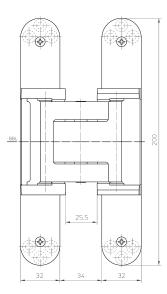
for claddings on door and frame of up to 8 mm

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

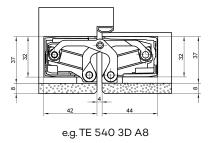




e.g. TE 540 3D A8



e.g. TE 540 3D A8



TECTUS

TECTUS A8

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

| hinge | cladding | 100 – 300 kg |
|-------|----------|--------------|
| | | |

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 a homogeneous 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 brassed (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.

Classification key

Detailed information in our PRODUCTSELECTOR at 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 PRODUCTSELE | CTOR at www.simonswerk.com |

d information in our PRODUCTSELECTOR at www.simonswerk





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.



Adapter technology

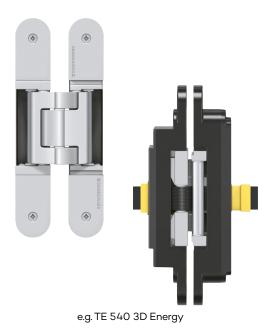
- compatibility with all the most popular designs for locks and fittings
- three different plug connections (round cable, universal adapter, adapter 1)

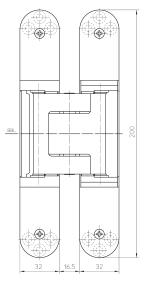
Flat ribbon cable

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

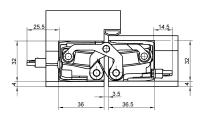
Clip

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





e.g. TE 540 3D Energy



e.g. TE 540 3D Energy

TECTUS

TECTUS Energy

with permanant energy transfer for unrebated heavy-duty doors

| hinge | energy transfer | 60 – 300 kg |
|-------|-----------------|-------------|
|-------|-----------------|-------------|

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 mm² |
|---------------------------------|--|
| 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 | i | adapter TECTUS Energy |

Functional areas

fire resistance, smoke resistance, soundproof, burglar resistance

Note

i When ordering the accessories please consider:

There are two connection adapters TECTUS Energy needed per hinge. A connection plan can be downloaded in our PRODUCTSELECTOR

at www.simonswerk.com.

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

Detailed information in our PRODUCTSELECTOR at 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









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 fushfitting whole.

(+

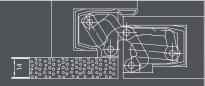
÷

load capacity up to 100 kg



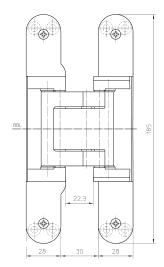
for 12 or 14 mm recessed frame facings

for a surrounding wall without a visible frame

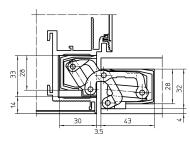




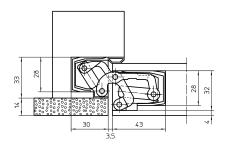
e.g. TE 541 3D FVZ



e.g. TE 541 3D FVZ



e.g. TE 311 3D FVZ 40



e.g. TE 541 3D FVZ

TECTUS

TECTUS FVZ

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

| hinge | recessed frame facings | 60 – 100 kg |
|-------|------------------------|-------------|
|-------|------------------------|-------------|

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 a homogeneous mortise appearance
- comfortable 3D adjustment (side +/- 3.0 mm, height +/- 3.0 mm, compression +/- 1.0 mm)
- maintenance-free slide bearings

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), other finishes available upon request

Combination

| casing frame | TE 3D FVZ FZ |
|--------------|--------------|
| steel frame | TE 3D FVZ SZ |
| steel door | TE 3D FVZ ST |
| | steel frame |

Functional areas

fire resistance, smoke resistance, soundproof

Note

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

Test evidence for functional doors to be achieved with full door sets. Suitable for use on FD30 fire doors when fitted with Ref. 8820 intumescent kit (BSEN1634). The intumescent kit can only be purchased from SIMONSWERK UK Ltd.

Classification key

Detailed information in our PRODUCTSELECTOR at 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 |
| D () () () () () () () () () (| PROBLICTOR FOTOR | : . |

Detailed information in our PRODUCTSELECTOR at www.simonswerk.com





TECTUS rebated for rebated residential doors

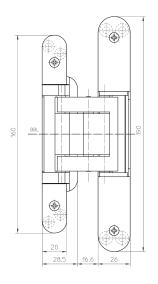
SIMONSWERK also offers within the TECTUS brand a solution for rebated door leaf. The concealed hinge system is completely invisible when the door is closed. The hinge joint's special geometry allows for installation in the rebated door leaf with a receiver in the wood, steel or aluminium frame.

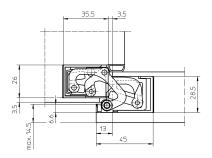


load capacity up to 60 kg

for rebated residential doors







TE 380 3D

for rebated residential doors

| hinge | rebated | up to 60 kg |
|-------|---------|-------------|
| | | |

Product features

- completely concealed hinge system
- for timber, steel or aluminium frames
- for rebated residential doors
- sideways closed hinge body for a homogeneous 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 | i 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

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

| 2 7 3 1 ^{*1} 1 - ^{*2} 0 10 | | | 2 | 7 | 3 | 1*1 | 1 | — *2 | 0 | 10 |
|---|--|--|---|---|---|-----|---|-------------|---|----|
|---|--|--|---|---|---|-----|---|-------------|---|----|

*1 Test evidence for functional doors to be achieved with full door sets and assemblies.

 $^{\ast 2}$ depending on the finish



TECTUS TE 680 3D FD for rebated entrance doors

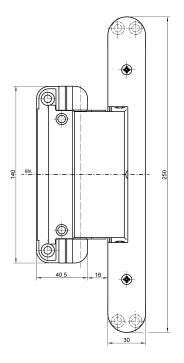
With the new model version TECTUS TE 680 3D FD, SIMONSWERK offers a solution for conventional, rebated timber entrance doors. Easy mounting and comfortable 3D adjustment make installation easy, while a circumferential seal ensures the required level of impermeability around the hinges.

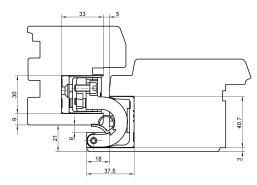
180 degrees opening angle * load capacity up to 160 kg *

continuous sealing system

comfortable 3D adjustment







e.g. overlap width 21 mm

TE 680 3D FD

for rebated entrance doors

Product features

- concealed hinge system
- for rebated entrance doors
- sideways closed hinge body for a homogeneous 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 i | 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, 22mm | template Nr. 5 251109 5 |
| | overlap 23mm | 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, 23mm | template Nr. 5 251113 5 |
| | overlap 24, 25 mm | template Nr. 5 251114 5 |
| | overlap 26mm | 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.

| Classifica | tion key | | | | | | |
|----------------------------|----------|---|---|---|-------------|---|----|
| 4 | 7 | 7 | 0 | 1 | — *1 | 1 | 14 |
| *1 depending on the finish | | | | | | | |

Available options

Detailed information in our PRODUCTSELECTOR at www.simonswerk.com



Functional areas

TE 680 3D FD Energy

load capacity up to 200 kg

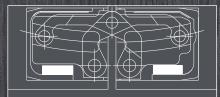
TECTUS FR with integrated intumescent kit

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.



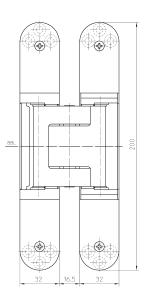
with integrated intumescent kit

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

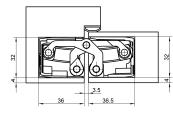




e.g. TE 540 3D FR



e.g. TE 540 3D FR



e.g. TE 540 3D FR

TECTUS

TECTUS FR

with integrated intumescent kit for unrebated heavy-duty doors

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 a homogeneous 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 two hinges per door leaf (1x2 m).

Test evidence for functional doors to be achieved with full door sets.

Classification key

Detailed information in our PRODUCTSELECTOR at 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 DDODUCTSELEC | TOP at www.aimanawark.aam |

Detailed information in our PRODUCTSELECTOR at www.simonswerk.com





TE 640 3D BW

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

| receiver | block frame |
|----------|-------------|
| | |

Technical details

load capacity

two hinges per door leaf (1x2m)

Finishes

blue galvanized (010)

Combination

hinge

TE 640 3D

120.0 kg

Note

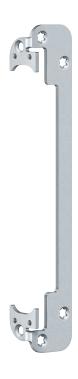
i The load capacity mentioned above refers to the use of two hinges per door leaf (1x2 m).

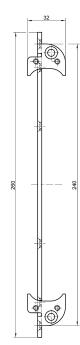
The cladding must be mortised in the hinge area. Please specify the exact version in your order.

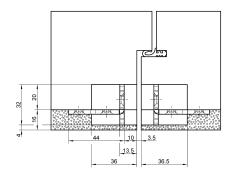
Available options

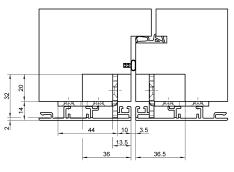
| Available options | |
|-----------------------|-----------------|
| claddings up to 16 mm | TE 640 3D BW 16 |
| claddings up to 20 mm | TE 640 3D BW 20 |
| | |

Detailed information in our PRODUCTSELECTOR at www.simonswerk.com

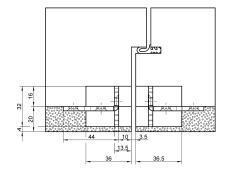








timber/aluminium system

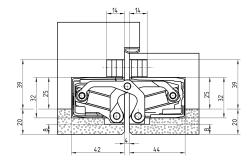


claddings up to 20 mm

claddings up to 16 mm



e.g. TE 640 3D A8 BW/1



TECTUS

TE 626/640 3D A8 BW/1

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

| receiver | block frame |
|-------------------|--|
| 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)

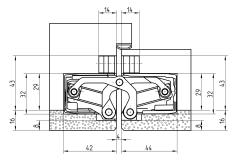
Combination

| 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.



TECTUS

Fixing plate TE ... 3D FZ

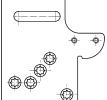
for residential and heavy-duty doors with casing frames

| receiver | | casing frame |
|-----------------------|----------------------|---------------------|
| Finishes | | |
| blue galvanized (010) |) | |
| Combination | | |
| hinge | | TE 240 3D |
| | | TE 311 3D FVZ |
| | | TE 340 3D |
| | | TE 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

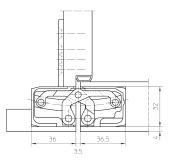
Spacers for casing thicknesses of 22-28 mm are included. Please specify the exact hinge in your order.



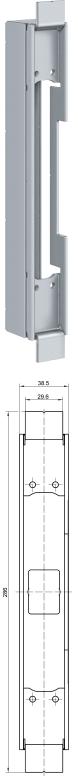


280

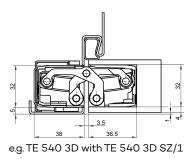
e.g. TE 540 3D FZ/1



e.g. TE 540 3D with TE 540 3D FZ/1



e.g. TE 540 3D SZ



TECTUS

Receiver TE ... 3D SZ

for residential and heavy-duty doors with steel frames

receiver

Finishes

hinge

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

Combination

| nation | | |
|--------|----------------------|---------------------|
| | | TE 240 3D |
| | | TE 311 3D FVZ |
| | | TE 340 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 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.

steel frame

TECTUS

Receiver TE ... 3D ST

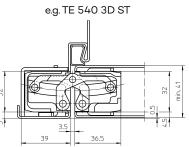
for steel doors

| receiver | | steel door |
|-----------------------|----------------------|---------------------|
| Finishes | | |
| blue galvanized (010) | | |
| Combination | | |
| 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 |
| | 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 |

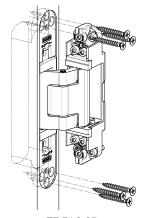
Note

Please specify the exact hinge in your order.

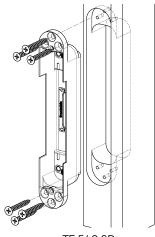




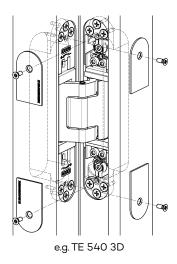
e.g. TE 540 3D with TE 540 3D ST



e.g. TE 540 3D



e.g. TE 540 3D



Assembly

TECTUS series

door

Fix door part with enclosed wood screws.

frame

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.

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

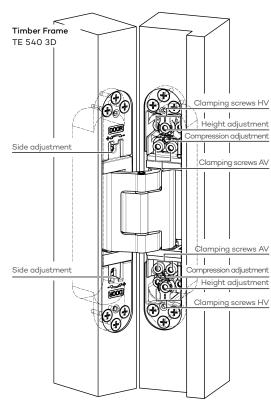
Height adjustment

- 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
- $\boldsymbol{\cdot}$ 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.

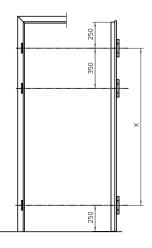


Hinge Positions

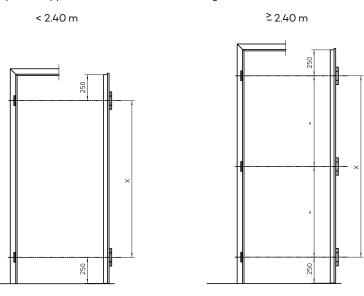
TECTUS Series

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



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

Finishes

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)



RAL 9016 Traffic White (070)

polished nickelled (038)



RAL 9005 Matte Deep Black (107)



Satin Stainless Steel (040)



Satin Chrome Look (124)





Satin Nickel Look (125)



Stainless Steel Look (126)



Bronze Metallic (168)



Satin Nickel (144)



Bronze Finish (174)



Satin Chrome (146)



Bronze Finish Light (175)



satin brassed (047)





Rustic Umber (156)



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 perfomance and CAD data.

Visit our PRODUCTSELECTOR

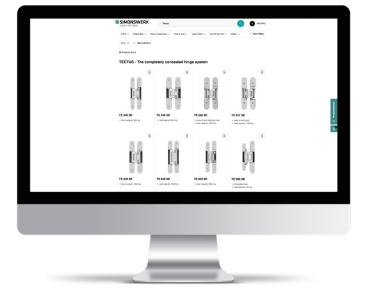
Whether you are a manufacturer, trade partner or designer, at www.simonswerk.com you can find precise, detailed product descriptions that will help you to choose the most suitable hinge systems.

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 130 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 heavyduty, residential and entrance doors, we offer product solutions for all applications and materials

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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.de

www.simonswerk.com

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