SWS HARDWARE

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# TECTUS TE541.3D.FVZ Adjustable Hinge 185 x 28mm 100KG 14mm Offset - SW146 Satin Chrome

**Variant code: TE541.3D.FVZ.SC**

The **TECTUS 3D Adjustable Concealed Hinge for Recessed Frames** is a high-performance hinge system designed specifically for **unrebated residential and heavy-duty doors with recessed frames up to 14mm**. Featuring a completely concealed design, the hinge measures **185 x 28mm** and provides a substantial **load capacity of up to 100kg**, combining discreet architectural styling with dependable performance.

Suitable for use with **timber, steel or aluminium frames**, the hinge provides comfortable **3D adjustment** for accurate door alignment after installation. Adjustment includes **side +/- 3.0mm, height +/- 3.0mm and compression +/- 1.0mm**. **Maintenance-free slide bearings** support smooth operation while helping to minimise ongoing maintenance requirements.

The **sideways closed hinge body** creates an aesthetically pleasing and homogeneous mortise appearance, complementing the completely concealed installation. Designed specifically to accommodate **recessed frames up to 14mm**, the hinge also provides an **opening angle of up to 180°**. Documented quality marks include **CE, IFT, Certifire and UKCA certification**, together with **Warringtonfire testing**.

## Product Features

- **Completely concealed hinge system**
- Designed specifically for **recessed frames up to 14mm**
- Suitable for **unrebated residential and heavy-duty doors**
- Compatible with **timber, steel or aluminium frames**
- **185 x 28mm** hinge dimensions
- **Load capacity up to 100kg**
- Provides comfortable **3D adjustment**
- **Side adjustment:** +/- 3.0mm
- **Height adjustment:** +/- 3.0mm
- **Compression adjustment:** +/- 1.0mm

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- Features **maintenance-free slide bearings**
- **Sideways closed hinge body** for an aesthetically pleasing mortise appearance
- Provides an **opening angle up to 180°**
- **CE, IFT, Certifire and UKCA certified**
- **Warringtonfire tested**

## Product Benefits

- **Designed for recessed frames up to 14mm, providing a specialist concealed hinge solution for distinctive architectural door designs**
- **Up to 100kg load capacity provides dependable support for suitable residential and heavy-duty doors**
- **Completely concealed installation creates a clean, minimalist appearance when the door is closed**
- **3D adjustment** enables precise side, height and compression alignment after installation
- Compatible with **timber, steel and aluminium frames** for flexible specification
- **Maintenance-free slide bearings** help reduce ongoing servicing requirements
- **Sideways closed hinge body** provides a neat and homogeneous mortise appearance
- **180° opening angle** provides excellent opening capability where the door installation permits
- **CE, IFT, Certifire and UKCA certification**, together with **Warringtonfire testing**, provides documented product credentials

## Technical Characteristics

- **Product Type:** 3D Adjustable Concealed Hinge for Recessed Frames
- **Overall Length:** 185mm
- **Door Part Width:** 28mm
- **Frame Part Width:** 28mm
- **Load Capacity:** Up to 100kg
- **Maximum Recessed Frame Depth:** Up to 14mm
- **Minimum Door Thickness:** 42mm
- **Door Type:** Unrebated Residential & Heavy-Duty Doors
- **Frame Compatibility:** Timber, Steel & Aluminium
- **Side Adjustment:** +/- 3.0mm

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- **Height Adjustment:** +/- 3.0mm
- **Compression Adjustment:** +/- 1.0mm
- **Bearing Type:** Maintenance-Free Slide Bearings
- **Cutter Diameter:** 24mm
- **Collar Ring Diameter:** 30mm
- **Opening Angle:** 180°
- **Certification / Quality Marks:** CE, IFT, Certifire & UKCA
- **Additional Testing:** Warringtonfire Tested
- **Classification Standard:** EN 1935 / EAD
- **Classification Code:** 4 7 5 1* 1 1 —* 0 12
- **Load Capacity Basis:** 2 Hinges Per 2000 x 1000mm Door Leaf

## Applications

The **TECTUS 3D Adjustable Concealed Hinge for Recessed Frames** is specifically designed for **unrebated residential and heavy-duty doors with recessed frames up to 14mm**. Suitable for compatible **timber, steel and aluminium frames**, its combination of a **100kg load capacity, completely concealed design, precise 3D adjustment, maintenance-free slide bearings and 180° opening angle** makes it suitable for architectural and commercial door installations where **recessed frame detailing, accurate alignment and discreet hinge hardware** are required.

| Property | Value |
|---|---|
| Finish | Satin Chrome |
| Opening angle (°) | 180 |
| Load Capacity (kg) | 100 |
| Width Door Part (mm) | 28 |
| Width Frame Part (mm) | 28 |
| Cutter diameter (mm) | 24 |
| Collar ring diameter (mm) | 30 |
| Min Door Thickness (mm) | 42 |
| Overall Length (mm) | 185 |
| Certification | CE, IFT, Certifire & UKCA |