SWS HARDWARE

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TECTUS TE541.3D.FVZ Adjustable Hinge 185 x 28mm 100KG 14mm Offset - SW107 RAL9005 Matte Black

Variant code: TE541.3D.FVZ.BK

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	Matte Black
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