SWS HARDWARE

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TECTUS 3D Adjustable Hinge 160 x 28mm 80KG - SW146 Satin Chrome

Variant code: TE340.3D.SC

The **TECTUS 3D Adjustable Concealed Hinge** is a high-performance, completely concealed hinge system designed for **unrebated residential and heavy-duty doors**. Measuring **160 x 28mm** and offering a **load capacity of up to 80kg**, it provides a discreet and robust hinge solution for high-quality door installations where a clean, minimalist appearance is required.

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

The **sideways closed hinge body** provides an aesthetically pleasing and homogeneous mortise appearance, complementing the completely concealed installation. The hinge carries **CE, IFT, UL and UKCA certification** and is also **Warringtonfire tested**, providing documented credentials for professional door specifications.

Product Features

- **Completely concealed hinge system**
- **160 x 28mm** hinge dimensions
- **Load capacity up to 80kg**
- Designed for **unrebated residential and heavy-duty doors**
- Suitable for **timber, steel or aluminium frames**
- Provides comfortable **3D adjustment**
- **Side adjustment:** +/- 3.0mm
- **Height adjustment:** +/- 3.0mm
- **Compression adjustment:** +/- 1.0mm
- Features **maintenance-free slide bearings**
- **Sideways closed hinge body** for an aesthetically pleasing mortise appearance
- Provides an **opening angle up to 180°**
- **CE, IFT, UL and UKCA certified**

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- **Warringtonfire tested**

Product Benefits

- **Completely concealed installation creates a clean and minimalist appearance when the door is closed**
- **3D adjustment enables precise side, height and compression alignment after installation**
- **Up to 80kg load capacity provides dependable support for suitable residential and heavy-duty doors**
- Compatible with **timber, steel and aluminium frames** for greater installation versatility
- **Maintenance-free slide bearings** help minimise ongoing servicing requirements
- **Sideways closed hinge body** provides a neat and homogeneous mortise appearance
- **180° opening angle** provides excellent door opening capability where the installation permits
- **CE, IFT, UL and UKCA certification** provides documented product performance credentials
- **Warringtonfire tested** for additional independently tested performance credentials

Technical Characteristics

- **Product Type:** 3D Adjustable Concealed Hinge
- **Overall Length:** 160mm
- **Door Part Width:** 28mm
- **Frame Part Width:** 28mm
- **Load Capacity:** Up to 80kg
- **Door Type:** Unrebated Residential & Heavy-Duty Doors
- **Frame Compatibility:** Timber, Steel & Aluminium
- **Side Adjustment:** +/- 3.0mm
- **Height Adjustment:** +/- 3.0mm
- **Compression Adjustment:** +/- 1.0mm
- **Bearing Type:** Maintenance-Free Slide Bearings
- **Minimum Door Thickness:** 36mm
- **Cutter Diameter:** 24mm
- **Collar Ring Diameter:** 30mm
- **Opening Angle:** 180°
- **Certification:** CE, IFT, UL & UKCA
- **Additional Testing:** Warringtonfire Tested
- **Classification Standard:** EN 1935 / EAD

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- **Classification Code:** 3 7 4 1* 1 1 — * 0 11
- **Load Capacity Basis:** 2 Hinges Per 2000 x 1000mm Door

Applications

The **TECTUS 3D Adjustable Concealed Hinge** is designed for **unrebated residential and heavy-duty doors** installed into compatible **timber, steel or aluminium frames**. Its combination of a **completely concealed design, precise 3D adjustment, maintenance-free slide bearings, 180° opening angle and up to 80kg load capacity** makes it particularly suitable for high-quality residential and demanding door installations where **accurate alignment, smooth operation and a clean architectural appearance** are required.

Property	Value
Finish	Satin Chrome
Opening angle (°)	180
Load Capacity (kg)	80
Width Door Part (mm)	28
Width Frame Part (mm)	28
Cutter diameter (mm)	24
Collar ring diameter (mm)	30
Min Door Thickness (mm)	36
Overall Length (mm)	160
Certification	CE, IFT, UL & UKCA