SWS HARDWARE

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# TECTUS 3D Adjustable Hinge 160 x 28mm 80KG - SW174 Bronze Finish

**Variant code: TE340.3D.SW174**

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 | Bronze Finish |
| 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 |