SWS HARDWARE

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TECTUS TE340 3D FR Adjustable Hinge 160 x 28mm 80KG - SW176 Bronze Finish Dark

Variant code: TE340.3D.FR.SW176

The **TECTUS 3D FR Adjustable Concealed Hinge** is a high-performance, completely concealed hinge system featuring an **integrated intumescent kit**. Designed for **unrebated residential and heavy-duty doors**, it measures **160 x 28mm** and provides a **load capacity of up to 80kg**, combining discreet aesthetics with dependable performance for demanding door installations.

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

The **sideways closed hinge body** creates a homogeneous and aesthetically pleasing mortise appearance, complementing the completely concealed installation. Its specified **function range includes Fire Resistance and Smoke Resistance**, while documented quality marks include **CE, IFT, Certifire and UKCA certification**, together with **Warringtonfire testing**. Suitability for fire doors is dependent on the complete door construction.

Product Features

- **Completely concealed hinge system**
- Features an **integrated intumescent kit**
- **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

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- Features **maintenance-free slide bearings**
- **Sideways closed hinge body** for a homogeneous mortise appearance
- Provides an **opening angle up to 180°**
- **Function range:** Fire Resistance & Smoke Resistance
- **CE, IFT, Certifire and UKCA certified**
- **Warringtonfire tested**

Product Benefits

- **Integrated intumescent kit supports suitable fire and smoke resistant door applications**
- **Completely concealed installation creates a clean, 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 versatile installation
- **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 opening capability where the installation permits
- **Fire Resistance and Smoke Resistance function range** makes the hinge suitable for appropriately specified door assemblies
- **CE, IFT, Certifire and UKCA certification**, together with **Warringtonfire testing**, provides documented product credentials

Technical Characteristics

- **Product Type:** 3D FR Adjustable Concealed Hinge
- **Intumescent Protection:** Integrated Intumescent Kit
- **Overall Length:** 160mm
- **Door Part Width:** 28mm
- **Frame Part Width:** 28mm
- **Load Capacity:** Up to 80kg
- **Door Type:** Unrebated Residential & Heavy-Duty Doors

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- **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°
- **Function Range:** Fire Resistance & Smoke Resistance
- **Certification:** CE, IFT, Certifire & UKCA
- **Additional Testing:** Warringtonfire Tested
- **Load Capacity Basis:** 2 Hinges Per 2000 x 1000mm Door Leaf

Applications

The **TECTUS 3D FR Adjustable Concealed Hinge** is designed for **unrebated residential and heavy-duty doors** installed into compatible **timber, steel or aluminium frames**. Its combination of an **integrated intumescent kit, Fire Resistance and Smoke Resistance function range, completely concealed design, precise 3D adjustment, maintenance-free slide bearings and up to 80kg load capacity** makes it suitable for demanding architectural door installations where **discreet aesthetics, accurate alignment and dependable performance** are required. Suitability for a specific fire door application depends on the complete door construction.

Property	Value
Finish	Bronze Finish Dark
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

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Property	Value
Certification	CE, IFT, UL & UKCA