SWS HARDWARE

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# TECTUS TE340 3D FR Adjustable Hinge 160 x 28mm 80KG - SW144 Satin Nickel

**Variant code: TE340.3D.FR.SN**

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
- Features **maintenance-free slide**

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**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
- **Frame Compatibility:** Timber, Steel &

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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 | Satin Nickel |
| 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, Certifire & UKCA |