SWS HARDWARE

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TECTUS TE640 3D FR Adjustable Hinge 240 x 32mm 200KG - SW176 Bronze Finish Dark

Variant code: TE640.3D.FR.SW176

The **TECTUS 3D FR Adjustable Concealed Heavy-Duty Hinge** is a high-performance, completely concealed hinge system featuring an **integrated intumescent kit**. Designed for **unrebated high-performance heavy-duty doors**, it measures **240 x 32mm** and provides an impressive **load capacity of up to 200kg**, making it suitable for substantial architectural 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**. Integrated **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. An **opening angle of up to 180°** provides extensive opening capability where the door installation permits. Documented product credentials include **CE certification, IFT certification, Warringtonfire testing, Certifire certification and UKCA certification**.

Product Features

- **Completely concealed hinge system**
- Features an **integrated intumescent kit**
- Designed for **unrebated high-performance heavy-duty doors**
- Suitable for **timber, steel or aluminium frames**
- **240 x 32mm** hinge dimensions
- Provides a substantial **load capacity of up to 200kg**
- Comfortable **3D adjustment** for accurate door positioning
- **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 of up to 180°**
- **CE certified**
- **IFT certified**
- **Warringtonfire tested**
- **Certifire certified**
- **UKCA certified**

Product Benefits

- **Exceptional 200kg load capacity provides dependable support for demanding high-performance heavy-duty door installations**
- **Integrated intumescent kit provides a purpose-designed solution for appropriate functional door assemblies**
- **Completely concealed installation creates a clean and minimalist architectural 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 versatile specification
- **Maintenance-free slide bearings** support smooth operation while helping to reduce ongoing servicing requirements
- **Sideways closed hinge body** creates a neat and homogeneous mortise appearance
- **180° opening angle** provides extensive opening capability where the installation permits
- Documented **CE, IFT, Certifire and UKCA certification**, together with **Warringtonfire testing**

Technical Characteristics

- **Product Type:** 3D FR Adjustable Concealed High-Performance Heavy-Duty Hinge
- **Intumescent Protection:** Integrated Intumescent Kit
- **Overall Length:** 240mm
- **Door Part Width:** 32mm
- **Frame Part Width:** 32mm
- **Load Capacity:** Up to 200kg
- **Minimum Door Thickness:** 40mm

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- **Door Type:** Unrebated High-Performance 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
- **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 7 1*1 1 —*2 1 14
- **Load Capacity Basis:** 2 Hinges Per 2000 x 1000mm Door Leaf

Applications

The **TECTUS 3D FR Adjustable Concealed Heavy-Duty Hinge** is designed for demanding **unrebated high-performance heavy-duty door installations** using compatible **timber, steel or aluminium frames**. Its combination of an **integrated intumescent kit, exceptional 200kg load capacity, completely concealed design, precise 3D adjustment, maintenance-free slide bearings and 180° opening angle** makes it particularly suitable for substantial architectural and commercial doors where **high load-bearing performance, accurate alignment and discreet hinge hardware** are required. Performance for functional door applications must be established as part of the **complete tested door set and assembly**.

Property	Value
Finish	Bronze Finish Dark
Opening angle (°)	180
Load Capacity (kg)	200
Width Door Part (mm)	32
Width Frame Part (mm)	32
Cutter diameter (mm)	24

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Property	Value
Collar ring diameter (mm)	30
Min Door Thickness (mm)	40
Overall Length (mm)	240
Certification	CE, IFT, Certifire & UKCA