



TECTUS TE640 3D FR Adjustable Hinge 240 x 32mm 200KG – SW175 Bronze Finish Light

Variant code: TE640.3D.FR.SW175

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



- 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

- **Door Type:** Unrealted 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*11 —*2 114
- **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 **unrealted 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 Light
Opening angle (°)	180
Load Capacity (kg)	200
Width Door Part (mm)	32
Width Frame Part (mm)	32
Cutter diameter (mm)	24



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