SWS HARDWARE

Tel: 01626 333900
Email: info@swshardware.com



TECTUS TE540 3D A8 FR Adjustable Hinge 200 x 32mm 100KG 8mm Cladding - SW176 Bronze Finish Dark

Variant code: TE540.3D.A8.FR.SW176

The **TECTUS 3D A8 FR Adjustable Concealed Hinge** is a high-performance, completely concealed hinge system featuring an **integrated intumescent kit**. Designed for **unrebated heavy-duty doors with claddings up to 8mm on both sides**, it measures **200 x 32mm** and provides a **load capacity of up to 100kg**, making it a robust solution for demanding architectural door installations.

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

The **sideways closed hinge body** provides an aesthetically pleasing and homogeneous mortise appearance, complementing the completely concealed installation. Its **integrated intumescent kit** supports use within appropriate functional door assemblies, while documented quality marks include **CE, IFT, Certifire and UKCA certification**, together with **Warringtonfire testing**.

Product Features

- **Completely concealed hinge system**
- Features an **integrated intumescent kit**
- Designed for **unrebated heavy-duty doors**
- Suitable for doors with **claddings up to 8mm on both sides**
- **200 x 32mm** hinge dimensions
- **Load capacity up to 100kg**
- 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 an aesthetically pleasing mortise appearance
- **CE, IFT, Certifire and UKCA certified**
- **Warringtonfire tested**

Product Benefits

- **Integrated intumescent kit provides a convenient concealed hinge solution for appropriate functional door assemblies**
- **Accommodates claddings up to 8mm on both sides, providing greater flexibility for architectural door designs**
- **Up to 100kg load capacity provides dependable support for suitable heavy-duty doors**
- **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
- Compatible with **timber, steel and aluminium frames** for versatile specification
- **Maintenance-free slide bearings** help minimise ongoing servicing requirements
- **Sideways closed hinge body** provides a neat and homogeneous mortise appearance
- **CE, IFT, Certifire and UKCA certification**, together with **Warringtonfire testing**, provides documented product credentials

Technical Characteristics

- **Product Type:** 3D A8 FR Adjustable Concealed Heavy-Duty Hinge
- **Intumescent Protection:** Integrated Intumescent Kit
- **Overall Length:** 200mm
- **Door Part Width:** 32mm
- **Frame Part Width:** 32mm
- **Load Capacity:** Up to 100kg
- **Maximum Cladding Thickness:** Up to 8mm on Both Sides
- **Minimum Door Thickness:** 49mm Including Claddings
- **Door Type:** Unrebated Heavy-Duty Doors
- **Frame Compatibility:** Timber, Steel & Aluminium

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- **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
- **Function Range:** Fire Resistance & Smoke Resistance
- **Certification:** CE, IFT, Certifire & UKCA
- **Additional Testing:** Warringtonfire Tested
- **Classification Standard:** EN 1935 / EAD
- **Classification Code:** 4 7 5 1* 1 1 — * 1 12

Applications

The **TECTUS 3D A8 FR Adjustable Concealed Hinge** is designed for **unrebated heavy-duty doors with architectural claddings** installed into compatible **timber, steel or aluminium frames**. Its combination of an **integrated intumescent kit, accommodation for claddings up to 8mm on both sides, 100kg load capacity, precise 3D adjustment and maintenance-free slide bearings** makes it particularly suitable for demanding architectural and commercial door installations where **concealed hardware, accurate alignment and functional door performance** are required. Suitability for a specific fire or smoke resistant door application 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)	100
Width Door Part (mm)	32
Width Frame Part (mm)	32
Cutter diameter (mm)	24
Collar ring diameter (mm)	30
Min Door Thickness (mm)	49
Overall Length (mm)	200
Certification	CE, IFT, Certifire and UKCA