SWS HARDWARE

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# TECTUS TE540 3D FR Adjustable Hinge 200 x 32mm 120KG - SW107 RAL9005 Matte Black

**Variant code: TE540.3D.FR.BK**

The **TECTUS 3D FR Adjustable Concealed Hinge** is a high-performance, completely concealed hinge system featuring an **integrated intumescent kit**. Designed for **unrebated heavy-duty doors**, it measures **200 x 32mm** and provides a substantial **load capacity of up to 120kg**, making it suitable for demanding architectural door installations requiring discreet aesthetics and functional door performance.

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 specified **Function Range includes Burglar Resistance, Fire Resistance, Smoke Resistance and Soundproof**. 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**
- **200 x 32mm** hinge dimensions
- **Load capacity up to 120kg**
- Designed for **unrebated 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 an aesthetically pleasing mortise appearance
- Provides an **opening angle up to 180°**
- **Function Range:** Burglar Resistance, Fire Resistance, Smoke Resistance & Soundproof
- **CE, IFT, Certifire and UKCA certified**
- **Warringtonfire tested**

## Product Benefits

- **Integrated intumescent kit supports specification within appropriate fire-resistant door assemblies**
- **Up to 120kg load capacity provides dependable support for demanding heavy-duty door installations**
- **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** 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
- Suitable for appropriately specified assemblies requiring **Burglar Resistance, Fire Resistance, Smoke Resistance or Soundproof performance**
- **CE, IFT, Certifire and UKCA certification**, together with **Warringtonfire testing**, provides documented product credentials

## Technical Characteristics

- **Product Type:** 3D 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 120kg

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- **Minimum Door Thickness:** 40mm
- **Door Type:** Unrebated 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°
- **Function Range:** Burglar Resistance, Fire Resistance, Smoke Resistance & Soundproof
- **Certification:** CE, IFT, Certifire & UKCA
- **Additional Testing:** Warringtonfire Tested
- **Classification Standard:** EN 1935 / EAD
- **Classification Code:** 4 7 6 1* 1 — 1 13
- **Load Capacity Basis:** 2 Hinges Per 1 x 2m Door Leaf

## Applications

The **TECTUS 3D FR Adjustable Concealed Hinge** is designed for **unrebated heavy-duty doors** installed into compatible **timber, steel or aluminium frames**. Its combination of an **integrated intumescent kit, completely concealed design, 120kg load capacity, precise 3D adjustment, maintenance-free slide bearings and 180° opening angle** makes it suitable for demanding architectural and commercial door installations. Its specified function range covers **Burglar Resistance, Fire Resistance, Smoke Resistance and Soundproof** applications, subject to the required performance being demonstrated by the complete door set and assembly.

| Property | Value |
|---|---|
| Finish | Matte Black |
| Opening angle (°) | 180 |
| Load Capacity (kg) | 120 |
| 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) | 200 |
| Certification | CE, IFT, Certifire and UKCA |