SWS HARDWARE

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TECTUS 3D Adjustable Hinge 200 x 32mm 120KG - SW176 Bronze Finish Dark

Variant code: TE540.3D.SW176

The **TECTUS 3D Adjustable Concealed Heavy-Duty Hinge** is a high-performance hinge system designed for **unrebated heavy-duty doors**. Measuring **200 x 32mm** and providing a substantial **load capacity of up to 120kg**, it combines robust performance with a completely concealed installation for demanding architectural door applications.

The **completely concealed hinge system** is suitable for use with **timber, steel or aluminium frames** and provides comfortable **3D adjustment** for accurate door alignment. Adjustment includes **side +/- 3.0mm, height +/- 3.0mm and compression +/- 1.0mm**, while **maintenance-free slide bearings** support smooth and dependable operation with minimal maintenance requirements.

A **sideways closed hinge body** provides an aesthetically pleasing and homogeneous mortise appearance, while an **opening angle of up to 180°** provides excellent accessibility where the door installation permits. The hinge carries **CE, IFT, UL and UKCA certification** and is also **Warringtonfire tested**, providing documented credentials for professional door specifications.

Product Features

- **Completely concealed hinge system**
- **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 bearings**
- **Sideways closed hinge body** for an aesthetically pleasing mortise

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appearance
- Provides an **opening angle up to 180°**
- **CE, IFT, UL and UKCA certified**
- **Warringtonfire tested**

Product Benefits

- **Up to 120kg load capacity provides dependable support for demanding heavy-duty door installations**
- **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** creates a neat and homogeneous mortise appearance
- **180° opening angle** provides excellent opening capability where the installation permits
- **CE, IFT, UL and UKCA certification** provides documented product credentials
- **Warringtonfire testing** provides additional independently tested performance credentials

Technical Characteristics

- **Product Type:** 3D Adjustable Concealed Heavy-Duty Hinge
- **Overall Length:** 200mm
- **Door Part Width:** 32mm
- **Frame Part Width:** 32mm
- **Load Capacity:** Up to 120kg
- **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
- **Minimum Door Thickness:** 40mm
- **Cutter Diameter:** 24mm
- **Collar Ring Diameter:** 30mm
- **Opening Angle:** 180°
- **Function Range:** Functional Heavy-Duty Door Applications

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- **Certification:** CE, IFT, UL & UKCA
- **Additional Testing:** Warringtonfire Tested
- **Classification Standard:** EN 1935 / EAD
- **Classification Code:** 4 7 6 1* 1 1 — * 1 13
- **Load Capacity Basis:** 2 Hinges Per 2000 x 1000mm Door

Applications

The **TECTUS 3D Adjustable Concealed Heavy-Duty Hinge** is designed for **unrebated heavy-duty doors** installed into compatible **timber, steel or aluminium frames**. Its combination of a **completely concealed design, 120kg load capacity, precise 3D adjustment, maintenance-free slide bearings and 180° opening angle** makes it particularly suitable for demanding residential, commercial and architectural door installations where **high load-bearing performance, accurate alignment and discreet aesthetics** are required. For functional door applications, the relevant test evidence must be established with the complete door set and assembly.

Property	Value
Finish	Bronze Finish Dark
Opening angle (°)	180
Load Capacity (kg)	120
Width Door Part (mm)	32
Width Frame Part (mm)	32
Cutter diameter (mm)	24
Collar ring diameter (mm)	30
Min Door Thickness (mm)	40
Overall Length (mm)	200
Certification	CE, IFT, UL & UKCA