SWS HARDWARE

Tel: 01626 333900
Email: info@swshardware.com



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

Variant code: TE640.3D.SW176

The **TECTUS 3D Adjustable Concealed Heavy-Duty Hinge** is a high-performance hinge system engineered for **unrebated high-performance heavy-duty doors**. Featuring a completely concealed design, the hinge measures **240 x 32mm** and provides an impressive **load capacity of up to 200kg**, making it particularly suitable for substantial architectural door installations where strength and discreet aesthetics are required.

Suitable for use with **timber, steel or aluminium frames**, the hinge incorporates comfortable **3D adjustment** for precise door alignment after installation. Adjustment includes **side +/- 3.0mm, height +/- 3.0mm and compression +/- 1.0mm**. The integrated **maintenance-free slide bearings** support smooth operation while helping to minimise ongoing maintenance requirements.

A **sideways closed hinge body** provides an aesthetically pleasing and homogeneous mortise appearance, complementing the completely concealed installation. The hinge also provides an **opening angle of up to 180°**. Documented quality marks include **CE, IFT, UL and UKCA certification**, while its specified function range covers **Smoke Resistance, Soundproof and Burglar Resistance**.

Product Features

- **Completely concealed hinge system**
- 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**

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- **Sideways closed hinge body** for an aesthetically pleasing mortise appearance
- Provides an **opening angle up to 180°**
- **CE, IFT, UL and UKCA certified**
- **Function Range:** Smoke Resistance, Soundproof & Burglar Resistance

Product Benefits

- **Exceptional 200kg load capacity provides dependable support for demanding high-performance heavy-duty door installations**
- **Completely concealed installation creates a clean and minimalist architectural appearance when the door is closed**
- **Precise 3D adjustment allows 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 reducing 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
- Specified for functional door applications requiring **Smoke Resistance, Soundproof or Burglar Resistance**, subject to the performance of the complete door set and assembly
- **CE, IFT, UL and UKCA certifications** provide documented product credentials

Technical Characteristics

- **Product Type:** 3D Adjustable Concealed High-Performance Heavy-Duty Hinge
- **Overall Length:** 240mm
- **Door Part Width:** 32mm
- **Frame Part Width:** 32mm
- **Load Capacity:** Up to 200kg
- **Minimum Door Thickness:** 40mm
- **Door Type:** Unrebated High-Performance Heavy-Duty Doors
- **Frame Compatibility:** Timber, Steel & Aluminium
- **Side Adjustment:** +/- 3.0mm
- **Height Adjustment:** +/- 3.0mm

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- **Compression Adjustment:** +/- 1.0mm
- **Bearing Type:** Maintenance-Free Slide Bearings
- **Cutter Diameter:** 24mm
- **Collar Ring Diameter:** 30mm
- **Opening Angle:** 180°
- **Function Range:** Smoke Resistance, Soundproof & Burglar Resistance
- **Certification / Quality Marks:** CE, IFT, UL & UKCA
- **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 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 exceptional **200kg load capacity, completely concealed design, precise 3D adjustment, maintenance-free slide bearings and 180° opening angle** makes it suitable for substantial architectural and commercial doors where **high load-bearing performance, accurate alignment and discreet hinge hardware** are required. Its specified function range also supports appropriate door assemblies requiring **Smoke Resistance, Soundproof and Burglar Resistance**, subject to test evidence for the complete 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
Collar ring diameter (mm)	30
Min Door Thickness (mm)	40
Overall Length (mm)	240

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Property	Value
Certification	CE, IFT, UL & UKCA