SWS HARDWARE

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TECTUS 3D Adjustable Hinge 155 x 26mm 120KG - SW176 Bronze Finish Dark

Variant code: TE527.3D.SW176

The **TECTUS 3D Adjustable Concealed Steel Hinge** is a high-performance hinge system designed for **unrebated heavy-duty doors**. Manufactured from **solid steel**, it measures **155 x 26mm** and provides a substantial **load capacity of up to 120kg**, making it a robust concealed solution for demanding architectural door installations.

The **completely concealed hinge system** is suitable for **timber, steel or aluminium frames** and provides convenient **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.

With an **opening angle of up to 180°**, the hinge combines discreet aesthetics with flexibility for heavy-duty door installations. Its **Function Range includes Smoke Resistance, Soundproof and Burglar Resistance**, while documented quality marks include **CE, IFT, UL, Certifire and UKCA certification**. The stated **120kg load capacity** is based on the use of **2 hinges per 1 x 2m door leaf**.

Product Features

- **Completely concealed hinge system**
- Manufactured from **solid steel**
- **155 x 26mm** hinge dimensions
- **Load capacity up to 120kg**
- Designed for **unrebated heavy-duty doors**
- Suitable for **timber, steel or aluminium frames**
- Provides convenient **3D adjustment**
- **Side adjustment:** +/- 3.0mm
- **Height adjustment:** +/- 3.0mm
- **Compression adjustment:** +/- 1.0mm
- Features **maintenance-free slide bearings**
- Provides an **opening angle up to 180°**
- **Function Range:** Smoke Resistance,

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Soundproof & Burglar Resistance
- **CE, IFT, UL, Certifire and UKCA certified**

Product Benefits

- **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**
- **Solid steel construction** provides a robust solution for heavy-duty applications
- Compatible with **timber, steel and aluminium frames** for versatile specification
- **Maintenance-free slide bearings** help minimise ongoing servicing requirements
- **180° opening angle** provides excellent opening capability where the installation permits
- Suitable for door assemblies requiring **Smoke Resistance, Soundproof or Burglar Resistance**, subject to the complete door set meeting the relevant requirements
- **CE, IFT, UL, Certifire and UKCA certification** provides documented product credentials

Technical Characteristics

- **Product Type:** 3D Adjustable Concealed Heavy-Duty Hinge
- **Material:** Solid Steel
- **Overall Length:** 155mm
- **Door Part Width:** 26mm
- **Frame Part Width:** 26mm
- **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:** 34mm
- **Cutter Diameter:** 24mm
- **Collar Ring Diameter:** 30mm
- **Opening Angle:** 180°

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- **Function Range:** Smoke Resistance, Soundproof & Burglar Resistance
- **Certification:** CE, IFT, UL, Certifire & UKCA
- **Classification Standard:** EN 1935 / EAD
- **Classification Code:** 4 7 6 1* 1 1 — * 1 13
- **Load Capacity Basis:** 2 Hinges Per 1 x 2m Door Leaf

Applications

The **TECTUS 3D Adjustable Concealed Steel Hinge** is designed for **unrebated heavy-duty doors** installed into compatible **timber, steel or aluminium frames**. Its combination of **solid steel construction, completely concealed installation, precise 3D adjustment, maintenance-free slide bearings, 180° opening angle and up to 120kg load capacity** makes it suitable for demanding architectural and commercial door installations. Its specified **Smoke Resistance, Soundproof and Burglar Resistance** function ranges also allow it to form part of appropriately tested functional door assemblies.

Property	Value
Finish	Bronze Finish Dark
Opening angle (°)	180
Load Capacity (kg)	120
Width Door Part (mm)	26
Width Frame Part (mm)	26
Cutter diameter (mm)	24
Collar ring diameter (mm)	30
Min Door Thickness (mm)	34
Overall Length (mm)	155
Certification	CE, IFT, UL, Certifire & UKCA