SWS HARDWARE

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TECTUS 3D Adjustable Hinge 280 x 36mm 300KG - SW176 Bronze Finish Dark

Variant code: TE645.3D.SW176

The **TECTUS 3D Adjustable Concealed High-Performance Heavy-Duty Hinge** is engineered for demanding **unrebated high-performance heavy-duty door** applications. Featuring a completely concealed hinge system and an exceptional **load capacity of up to 300kg**, it provides a robust yet discreet solution for substantial architectural doors where strength, precise alignment and clean aesthetics are essential.

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

The **sideways closed hinge body** creates an aesthetically pleasing and homogeneous mortise appearance, complementing the completely concealed installation. With an **opening angle of up to 180°**, documented **CE, IFT and UKCA certification**, and a specified function range covering **Smoke Resistance, Soundproof and Burglar Resistance**, this hinge is designed for demanding high-performance door specifications.

Product Features

- **Completely concealed hinge system**
- Designed for **unrebated high-performance heavy-duty doors**
- Suitable for **timber, steel or aluminium frames**
- **Frame part measures 280 x 36mm**
- **Door part measures 260 x 34mm**
- Exceptional **load capacity up to 300kg**
- Comfortable **3D adjustment** for precise door alignment
- **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°**
- **CE, IFT and UKCA certified**
- **Function Range:** Smoke Resistance, Soundproof & Burglar Resistance

Product Benefits

- **Exceptional 300kg load capacity provides substantial support for demanding high-performance heavy-duty doors**
- **Completely concealed installation provides a clean, minimalist appearance when the door is closed**
- **Precise 3D adjustment enables accurate 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 helping to minimise 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
- Suitable for appropriate functional door assemblies requiring **Smoke Resistance, Soundproof or Burglar Resistance**
- **CE, IFT and UKCA certification** provides documented product credentials

Technical Characteristics

- **Product Type:** 3D Adjustable Concealed High-Performance Heavy-Duty Hinge
- **Frame Part Dimensions:** 280 x 36mm
- **Door Part Dimensions:** 260 x 34mm
- **Load Capacity:** Up to 300kg
- **Minimum Door Thickness:** 43mm
- **Door Type:** Unrebated High-Performance 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

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Bearings

- **Cutter Diameter:** 24mm
- **Collar Ring Diameter:** 30mm
- **Opening Angle:** 180°
- **Function Range:** Smoke Resistance, Soundproof & Burglar Resistance
- **Certification / Quality Marks:** CE, IFT & 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 High-Performance Heavy-Duty Hinge** is designed for substantial **unrebated high-performance heavy-duty doors** installed into compatible **timber, steel or aluminium frames**. Its combination of an exceptional **300kg load capacity, completely concealed construction, precise 3D adjustment, maintenance-free slide bearings and 180° opening angle** makes it particularly suitable for demanding architectural and commercial door installations where **very high load-bearing performance, accurate alignment and discreet hinge hardware** are required. Its specified function range also covers 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)	300
Width Door Part (mm)	34
Width Frame Part (mm)	36
Cutter diameter (mm)	24
Collar ring diameter (mm)	30
Min Door Thickness (mm)	43
Certification	CE, IFT & UKCA
Length Door Part (mm)	260

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Property	Value
Length Frame Part (mm)	280