SWS HARDWARE

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# TECTUS 3D Adjustable Hinge 280 x 36mm 300KG - SW107 RAL9005 Matte Black

**Variant code: TE645.3D.BK**

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 | Matte Black |
| 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 |