SWS HARDWARE

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TECTUS TE640 3D A8 FR Adjustable Hinge 240 x 32mm 160KG 8mm Cladding - SW107 RAL9005 Matte Black

Variant code: TE640.3D.A8.FR.BK

The **TECTUS 3D A8 FR Adjustable Concealed Heavy-Duty Hinge** is a high-performance, completely concealed hinge system featuring an **integrated intumescent kit**. Designed for **unrebated high-performance heavy-duty doors with claddings up to 8mm on both sides**, it measures **240 x 32mm** and provides a substantial **load capacity of up to 160kg**.

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

The **sideways closed hinge body** provides an aesthetically pleasing and homogeneous mortise appearance, complementing the completely concealed installation. The hinge provides an **opening angle of up to 180°** and has a specified function range covering **Burglar Resistance, Fire Resistance, Smoke Resistance and Soundproof**. The current product datasheet also lists **Warringtonfire testing and Certifire certification**.

Product Features

- **Completely concealed hinge system**
- Features an **integrated intumescent kit**
- Designed for **unrebated high-performance heavy-duty doors**
- Accommodates **claddings up to 8mm on both sides**
- Suitable for **timber, steel or aluminium frames**
- **240 x 32mm** hinge dimensions
- **Load capacity up to 160kg**
- Comfortable **3D adjustment** for accurate positioning
- **Side adjustment:** +/- 3.0mm
- **Height adjustment:** +/- 3.0mm

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- **Compression adjustment:** +/- 1.0mm
- Features **maintenance-free slide bearings**
- **Sideways closed hinge body** for an aesthetically pleasing mortise appearance
- Provides an **opening angle up to 180°**
- **Warringtonfire tested**
- **Certifire certified**

Product Benefits

- **Integrated intumescent kit supports specification within appropriate fire-resistant door assemblies**
- **160kg load capacity provides substantial support for demanding high-performance heavy-duty doors**
- **Accommodates claddings up to 8mm on both sides for greater flexibility in architectural door designs**
- **Completely concealed installation** provides 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** support smooth operation while helping to minimise ongoing servicing
- **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 **Burglar Resistance, Fire Resistance, Smoke Resistance and Soundproof performance**

Technical Characteristics

- **Product Type:** 3D A8 FR Adjustable Concealed Heavy-Duty Hinge
- **Intumescent Protection:** Integrated Intumescent Kit
- **Overall Length:** 240mm
- **Door Part Width:** 32mm
- **Frame Part Width:** 32mm
- **Load Capacity:** Up to 160kg
- **Maximum Cladding Thickness:** Up to 8mm on Both Sides

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- **Minimum Door Thickness:** 49mm Including Claddings
- **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 Bearings
- **Cutter Diameter:** 24mm
- **Collar Ring Diameter:** 30mm
- **Opening Angle:** 180°
- **Function Range:** Burglar Resistance, Fire Resistance, Smoke Resistance & Soundproof
- **Certification / Quality Marks:** Certifire Certification & Warringtonfire Tested
- **Load Capacity Basis:** 2 Hinges Per 2000 x 1000mm Door Leaf

Applications

The **TECTUS 3D A8 FR Adjustable Concealed Heavy-Duty Hinge** is designed for demanding **unrebated high-performance heavy-duty doors with claddings up to 8mm on both sides** installed into compatible **timber, steel or aluminium frames**. Its combination of an **integrated intumescent kit, 160kg load capacity, completely concealed design, precise 3D adjustment and maintenance-free slide bearings** makes it suitable for architectural and commercial door installations where **high load-bearing performance, cladded door construction and discreet hardware** are required. Its specified function range covers **Burglar Resistance, Fire Resistance, Smoke Resistance and Soundproof** applications, subject to the required performance of the complete door set and assembly.

Property	Value
Finish	Matte Black
Opening angle (°)	180
Load Capacity (kg)	160
Width Door Part (mm)	32
Width Frame Part (mm)	32

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Property	Value
Cutter diameter (mm)	24
Collar ring diameter (mm)	30
Min Door Thickness (mm)	49
Overall Length (mm)	240
Certification	Certifire