

Hinges

Türband 4 – STANDARD

The Türband 4 hinge is the flagship product of renowned hinge manufacturer Dr. Hahn. Many years of development and improvement of the design has made the handling of the hinges even more efficient in the workshop and on the building site. Thanks to the sophisticated distribution of the forces occurring, Türband 4 is significantly more stable at the hinge after horizontal adjustment. Alignment has become easier too, even with high loads.

Türband 4 hinges are used on AF70 and AF91 doors and casement windows. The number of hinges required will depend on the fire rating and the size and weight of the sash but will be between 2 to 5 hinges in total.

A general guide on the number of hinges and the hinge placement on the sash is given in the table below.

| System | Fire Rating | Quantity of hinges |
|-----------------|-------------|--------------------|
| Casement Window | all | 2 |
| AF70 door | 60 minutes | 3 |
| AF91 door | 60 minutes | 4 |
| AF91 door | 120 minutes | 5 |

| Hinge Number | Hinge location |
|--------------|------------------------------------|
| 1 | 200mm below the top of the sash |
| 2 | 200mm above the bottom of the sash |
| 3 | 500mm below the top of the sash |
| 4 | 500mm above the bottom of the sash |
| 5 | 800mm below the top of the sash |

The Türband 4 hinge is a 3D adjustable hinge that allows for ease of maintenance with adjustment within the hinge itself without needing to remove and reinstall. Hinges adjustment tolerances are given in the table below.

| Hinge Adjustment | Tolerance |
|-----------------------|-----------------------|
| Sealing pressure | + 0.5 or 0 or -0.5 mm |
| Height adjustment | + 3 / - 2 mm |
| Horizontal adjustment | + 2.5 / - 2.5 mm |



Bearing points made of maintenance free PVC containing teflon -

DO NOT lubricate!



VIDEO - How to make hinge adjustment

Closers - Single Swing Door

dorma TS93 B — STANDARD

The TS93 cam action door closer system sets new standards in user convenience in project applications. The proven dorma technology of the heart-shaped cam ensures exceptional ease of opening.

The TS 93 series comprises a modular system which enables just a few door closer models to be combined with a number of different slide channels to meet virtually every conceivable functional requirement.

The G-EMF slide channel assembly enables the door to be held open securely at a preselected position without fall-back.

In the event of an alarm or a fault in the power supply, the hold-open is released and the door is closed by the door closer. The release is triggered by a signal from external smoke detectors (e.g. DORMA RMZ or DORMA RM).



| Model | TS93 B | TS93 G | TS93 B G-EMF | TS93 G G-EMF |
|-----------------------------|--------|--------------|----------------|----------------|
| Pull side door leaf fixings | Yes | No | Yes | No |
| Push side door leaf fixing | No | Yes | No | Yes |
| Max door opening angle | 180° | 120° to 145° | 80° to 140° | 80° to 140° |
| Integrated hold open | No | No | Yes | Yes |
| Connect to fire signal | No | No | Yes | Yes |
| Operating voltage | n/a | n/a | 24 V DC, ± 15% | 24 V DC, ± 15% |
| Power input | n/a | n/a | 1.4 W | 1.4 W |

EN1-5 model is supplied for all doors up to 1,250mm wide. For wider doors the EN5-7 model is required.

If a hold open function is required for heavy doors or door that are required to hold open above 130°, then DORMA EM hold-open magnets can be used in conjunction with the non-EMF models.

Closers - Double Swing Door

dorma TS93 B G-SR — STANDARD

The TS93 G-SR is a cam action door closer system that incorporates door coordinators not only ensure the correct closing sequence of double doors, but also allow the door leaves to be individually held open. In the event of an alarm or power failure, the hold-open is released and the door is closed by the door closer.

The TS 93 series comprises a modular system which enables just a few door closer models to be combined with a number of different slide channels to meet virtually every conceivable functional requirement.

The G-SR-EMF slide channel assembly enables the door to be held open securely at a preselected position without fall-back.



| Model | TS93 B G-SR | TS93 G G-SR/BG | TS93 B G-SR-EMF | TS93 G G-SR-EMF/BG |
|------------------------------|-------------|----------------|-----------------|--------------------|
| Pull side door leaf fixings | Yes | No | Yes | No |
| Push side door leaf fixing | No | Yes | No | Yes |
| Max door opening angle | 180° | 120° to 145° | 80° to 130° | 80° to 130° |
| Integrated hold open | No | No | Yes | Yes |
| Connect to fire signal | No | No | Yes | Yes |
| Operating voltage | n/a | n/a | 24 V DC, ± 15% | 24 V DC, ± 15% |
| Power input | n/a | n/a | 1.4 W | 1.4 W |
| Coordinator for double doors | Yes | Yes | Yes | Yes |

EN1-5 model is supplied for all doors up to 1,250mm wide. For wider doors the EN5-7 model is required.

If a hold open function is required for heavy doors or door that are required to hold open above 130°, then DORMA EM hold-open magnets can be used in conjunction with the non-EMF models.

Door furniture

dormakaba Noosa 6500 / 6506 — STANDARD

Round end design is the 6500 series. Manufactured using hygienic and corrosion resistant 316 Solid Stainless Steel.

Suitable for the dormakaba SB2313 mortice lock. Overall height dimensions of the face plate is 185mm h x 26mm w x 12.7mm d.

Model 6500 external plate includes cylinder cut out. Model 6506 internal plate is without cylinder cutout. Fixings are visible on the internal plates.

Noosa lever is standard supply on Aluflam doors and are AS1428.1 disabled access compliant.



Motrice locks

dormakaba SB2312 — STANDARD

dormakaba short backset narrow stile motrice lock is the ideal solution for new fit-outs or retrofits. The 30mm backset aligns clash-free with the Aluflam AF70 profile providing a stylish finish..

The multi-function lock is non-handed and one lock suits all functions with the convenience of an adjustable locking bar (independent to each side of the door) and multiple cam options. The lock has a zinc alloy case with stainless steel latch, faceplate and strike.



Electric strikes**Lockwood ES200— OPTIONAL**

The Lockwood Padde Series ES200 series electric strikes are high security products manufactured from stainless steel and designed for use with all access control systems. The strikes are suitable for use with hinged doors which require either fire or security control as part of a building management system.

These strikes are flexible and can be changed from fail safe to fail secure, mounted on the left or right hand side of the door and are available in 12 or 24Vdc.

They offer a strong, dependable and long-lasting electric strike solution.



| Part Number | Product Description |
|--------------------|--|
| ES200-1 | ES200 E/Strike 12Vdc Fail Safe Non Monitored |
| ES200-2 | ES200 E/Strike 12Vdc Fail Secure Non Monitored |
| ES200-3 | ES200 E/Strike 24Vdc Fail Safe Non Monitored |