## OPENING DOORS FOR BUSINESS

The Dynamic Silver Service team are dedicated to providing responsive, fast and effective service. Our clients depend on us to have their shop fronts and entries opening for business and closing for security.

### KNIGTGUARD® SERIES 1

#### ROLLER SHUTTERS

The Knightguard® Series 1 Roller Shutter is built with a durable aluminium construction, designed for optimal security and protection. Suitable for a range of situations including:

- **Commercial shop fronts**
- **Shopping centres**
- **Shop windows**
- **Retail outlets**
- **Serveries**
- **Counters**
- **Bars**
- **Hotel kitchens**
- **Kiosks**
- **Cafés**
- **Restaurants**

Knightguard® Heavy Duty Series 1 Roller Shutters offer the option to incorporate **punch-outs or perforations** in sections of the curtain required for **visibility, light transmission** and **airflow**.

**The alternating tough extruded aluminium slats interlinked with heavy duty aluminium connecting extrusions provides a robust barrier with protection from intruders, dust and vermin.**

# CONTROLS

## MANUAL OPERATION

Knightguard® Series 1 Roller Shutters are fitted with an assist spring within the drum which is the lifting mechanism that allows the roller shutter curtain to be physically raised and lowered by hand. The assist spring balances the weight of the roller shutter curtain and makes operation easier and safer.

Our specially designed spring balanced drum is suitable for MANUAL OPERATION shutters up to **3400mm (w)** x **3200mm (h)** (or 10 metres per square). These manual hand operated shutters are normally fitted with mid-rail or bottom rail locking devices to keep the shutter secure.

A Dynamic Silver Service Pull Pole is supplied with every manual shutter, to reach the shutter to aid in pulling down in the up position.
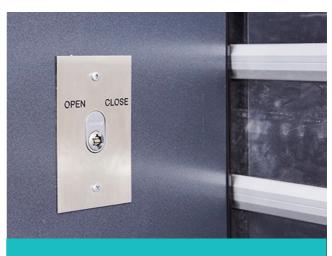
## MOTORISED OPERATION

The most convenient way to open and close the Knightguard® Series 1 is to opt for the **240V electric motor option**. A range of electric central or tubular motors and accessories are available from Dynamic Silver Service for roller shutter.

**ROLLER SHUTTER ACCESSORIES:**

- 100Nm or 140Nm central inbuilt motors, which allows for easy installation and smaller bulkhead requirements.
- Key switch control (can be keyed alike).
- Emergency push button control.
- Back-up power for 240V mains powered electric roller shutters via an UPS (Uninterruptible Power Supply), so in the event of a power outage you can still open or close your roller shutters.
- Manual override mechanisms as a safeguard to allow manual opening and closing of your roller shutters in case of a power outage.
- Remote control devices.

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KNIGHTGUARD® ROLLER SHUTTER



**Electric central and tubular motors for Knightguard® Series 1 roller shutters are suitable for all roller shutter sizes up to 5000mm (w) x 3500mm (h) or 17 metres per square.**

# SPECIFICATIONS

## CURTAIN

DYNAVIEW by DYNAMIC CLOSURES

The Knightguard® Series 1 Roller Shutter curtain consists of the following interconnected components:

- **65mm x 1.6mm thick extruded aluminium slats.**
- **31mm x 16mm aluminium connecting bars.**

Nylon end caps ensure the slats are locked in to place, reduce friction and facilitate smooth operation.

Optional punching or perforated aluminium slats on all or part of the curtain is available. Space between punch-outs is 50mm apart unless specified otherwise.

## CURTAIN WEIGHT

Curtain weight is **8 kg** per square metre. Add **1.5 kg** per metre for each mid rail or bottom rail.

## MAXIMUM WIDTH

DYNAVIEW by DYNAMIC CLOSURES

**MANUAL OPERATION:**
**3400mm (w)** x **3200 (h)** or 11.5 metres per square.
**MOTORISED OPERATION:**
**5000mm (w)** x **3500 (h)** or 17 metres per square.

**Removable mullions and removable side guides will NOT be installed with motorised shutters, due to operational and safety issues. Only fixed side guides will be used on motorised shutters.**

## COLOURS

The standard finish for all visible aluminium components on Knightguard® Series 1 Roller Shutters is a **clear anodised matt finish**. Optional powder coating with specified Dulux or Interpon colours is available.

## SIDE GUIDES

**CHOICE OF ROLLER SHUTTER GUIDES:**

- Standard **54mm** x **32mm** clear anodised guides (available for use without a pelmet box).
- **76mm** x **32mm** clear anodised guides (suitable for face-fit or when an optional pelmet box is fitted).
- **90mm** x **35mm** clear anodised guides (recommended for manual operated doors when higher security is required or the door is exposed to outside elements).

## BOTTOM RAIL

**80mm** x **17mm** clear anodised bottom rail included as standard. There is also an option of an aluminium foot stiffener (60mm deep) which is fitted under the bottom rail and is suitable for resting on bulkheads or counter tops if required.

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## LOCKING

The bottom rail houses a star keyed lock, in the centre position within the bottom rail extrusion. The lock operates **25mm** x **3mm** aluminium flat bars which, when in the locked position, secure the Locking Bars into the side guides. The standard lock allows operation from both outside and inside and can be keyed alike to multiple doors.

## SPRING BALANCED DRUM

The drum is manufactured from 229mm diameter, spiral ducted tube, with steel end caps. There are fully enclosed heavy duty bearings which rotate around a 34mm steel shaft with next to no friction. The shaft is fitted with helical torsion springs designed to counterbalance the curtain weight.

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# BUNDLE AND ROLL SIZES

| DROP HEIGHT | ROLL SIZE (DIAMETER) |
|---|---|
| 1500mm | 300mm |
| 1800mm | 330mm |
| 2100mm | 340mm |
| 2400mm | 350mm |
| 2700mm | 370mm |
| 3000mm | 380mm |
| 3300mm | 390mm |
| 3600mm | 410mm |
| 4000mm | 420mm |

## SERIES 1 PELMET SHUTTERS

The Knightguard® Series 1 Roller Shutter curtain can be enclosed in a specially designed pelmet box from **250mm** to **300mm** (height and depth).

The pelmet shutter range allows the shutters to roll up inside the pelmet box taking away the need for purpose built bulkheads and covers.

Pelmet boxes can be powder coated in a range of colours. Pelmet boxes reduce dust and contain all moving parts.

**MAXIMUM SIZES:**
Up to **4000mm (w)** and **2750mm (h)** (height is measured to the top of the pelmet box).

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