



**foris solutions**

## Anti-Ligature Range

Door Handles  
Fittings & Accessories

# INTRODUCTION

Foris Solutions Ltd core business is the specification and supply of door hardware in all market sectors and for all project types.

Many of our customers recognise and appreciate the commercial advantage of dealing with a controlled supply chain where fewer suppliers deliver product bundles reducing their administration and risk.

Foris has a proven history of providing co-ordinated mechanical and electronic solutions that ensures door openings will control access and egress compliant with current building legislation and building owner/user needs.

Foris consultants will assist the specifier with product selection ensuring relevant design legislation and building control standards are achieved, we will provide detailed specifications scheduled door by door supported by samples for client approval and we will provide a detailed quotation covering our costs for supply and installation.

In this brochure we are pleased to offer products manufactured in the UK that have been designed to reduce the risk of self harm and which meet with the specialist needs in mental health accommodation.

Please note we cannot guarantee that there are no circumstances in which self harm is not possible.

The products detailed in this brochure represent the more popular designs we have supplied but we can offer a bespoke specialist design service if you have a specific requirement that we have not included.

***Foris Solutions -  
for all your door openings***

## STANDARD FINISHES

Satin Stainless Steel  
Polished and anodised aluminium

## SPECIAL ORDER

TouchClean® anti bacterial finish  
Mirror polished stainless steel  
Epoxy powder coated

## QUALITY

All products have been tested in accordance with DHF (Door and Hardware Federation) Technical Specifications for "Door Mounted Anti-ligature Devices for Safety and Security Purposes" (TF001).

Manufacturing design tests are a continuous work in progress to focus on minimising the risk of damage and loss of functionality if products are abused. For details of DHF testing please see their website at [www.abhm.org.uk](http://www.abhm.org.uk).

## DESIGN COPYRIGHT

All the door handles and accessories in this catalogue are original designs subject to design copyright.

*TouchClean*®

TouchClean® is an anti-bacterial and anti-viral coating that protects against hand borne organisms such as MRSA, e-coli, SARS, c-diff, etc. It is self cleaning too.

## CONTENTS

	Page
<b>Pull Handles</b>	<b>3 &amp; 4</b>
<b>Lever Handles</b>	<b>5</b>
<b>Knobs</b>	<b>6</b>
<b>Turns and escutcheons</b>	<b>7</b>
<b>Window fittings</b>	<b>8</b>
<b>Locks, hinges &amp; coat hook</b>	<b>9</b>

All dimensions, weights etc. given in this brochure are approximate.

Foris Solutions Limited reserves the right to alter specification without prior notice, where this proves necessary for technical or other reasons. This range of specialist door hardware has been designed to reduce the risk of self harm, but the Company cannot guarantee that there are no circumstances in which self harm is not possible.

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# PULL HANDLES

**FS104001**



**FS104001**

An anti-ligature infill pull handle. 25mm dia. 250mm long on a plate 300mm long 75mm wide.

Available in polished aluminium or satin stainless steel.

Alternative sizes available to special order.

Infill plate prevents the introduction of ligatures.

Large diameter pull handle gives sufficient grip to pull door closed. It can be fixed back to back or face fixed.

**FS104002**



**FS104002**

Pull handle 25mm dia. on a plate.

Plate size can be made to specification. Available in polished aluminium or satin stainless steel.

**Options**

Pull handle on plate 265 x 75mm (single) FS104002

Pull handle on plate bolted through to pull handle on plate (pair) FS104032

Pull handle on plate bolted through to finger plate FS104042

Pull handle on rose FS104022

**FS104003**



**FS104003**

32mm x 150mm pull handle on plate 190mm x 65mm or to specification

Available in polished aluminium or satin stainless steel.

**Options**

Back to back through plate holes using special tamperproof bolts FS104033

This handle was designed to prevent barricading. It offers sufficient grip to close the door but not enough for it to be used to hold the door closed.

Not recommended for use where a door closer or floor spring is fitted.

**FS104004**

A pull handle in satin stainless steel 170x150mm

This pull handle has passed relevant indicative fire tests using Lorient products intumescent pads (not supplied).

The inside of the grip is curved to prevent the insertion of a part to attach a ligature. There is excellent grip and it can be fitted vertically or horizontally. Available in face fix or back to back, supplied complete with tamperproof fixings.

**FS104004**



# PULL HANDLES

**FS104005**



**FS104005**

An anti-ligature pull handle with smooth lines which discourage attachment of ligatures whilst having a 'non institutional' appearance. Available in polished aluminium or nickel plates (imitation stainless steel).

**Options**

A single pull handle on a radiused plate 190mm FS104005

A pair of FS104005 for back to back fitting FS104035

**FS104006**



**FS104006**

A pull handle available in aluminium only. The standard length is 300mm but it can be supplied in any length required from 150mm up to 2000mm.

This handle has been developed to give sufficient grip to open large doors equipped with door closing devices but with minimal opportunity to attach ligatures.

All handles come complete with tamperproof fittings.

**Options**

A single face fix pull handle FS104026

A single bolt through pull handle FS104016

A pair of back to back pull handles FS104036

**FS104008**

A pull handle styled similarly to the FS104006 profile but available in satin stainless steel only.

Width 63mm, length 200mm.

**FS104007**



**FS104007**

A pull handle with profile cylinder hole. Length 300mm.

Available in aluminium only.

The handle is radiused to prevent attachment of ligatures.

Ideal for use with roller bolt locks.

**FS104008**



# LEVER HANDLES

## FS104009



## FS104009

A curved lever handle which features bolt through concealed fixing on the patient side

The lever sits on the door at a 45 degree angle and falls to vertical when pressurised.

This lever was developed to enable the less physically able to operate doors easily but it is also a very strong handle offering an excellent resistance to ligatures.

It was painstakingly developed using rapid prototype modelling to establish a good resistance to the attachment of ligatures.

We gratefully acknowledge the help and patience from the mental health professionals who helped us develop this product - without their advice it would have taken much longer.

It is recommended that this product is used in conjunction with an inverted lock. (See page 10). Due to the lever handle clashing with a turn when used in conjunction with cylinder or bathroom turn, we advise that this handle should be used with a heavily sprung DIN standard lock case.

Available in aluminium or satin stainless steel.

## FS104011



## FS104012



## FS104010

An anti-ligature lever handle. The lever is set at a 45 degree angle. When pressure applied it falls to 90 degrees (vertical) causing the ligature to slip off. This lever bolts through the door so that no fixings are visible on client side of door. Available in aluminium, satin stainless steel, textured powder coated. Supplied with tamperproof fittings.

### Options

FS104010 lever on 63mm chamfered rose supplied in sets FS104011  
FS104010 lever on 50mm rounded rose supplied in sets FS104012  
FS104013 half set (handed) bolting through to a blind rose.

# KNOB FURNITURE

**FS104014**



**FS104014**

Anti-ligature knob, which can be grooved if required, chamfered to allow maximum grip and ligature resistance.

Available in polished aluminium, satin stainless steel and crinkle powder coated finish.

**Options**

A pair of aluminium knobs 50mm dia. for bolt through installation - FS104014.

A pair of stainless steel knobs 50mm dia. for bolt through installation - FS104014.

A set of knobs 50mm dia. fixed to plates 200 x 150 which can be bolted through fixing holes of plate:

With keyhole - FS104015.

Without keyhole - FS104016.

**FS104015**



**Anti-barricading cylinder**



We can convert most euro cylinders to clutch operation by adding our anti-barricading knob. Please contact us for details.

**FS104017**



**FS104017**

An anti-ligature knob set with double chamfer. Can be used in conjunction with anti-ligature lever handle in knob/lever combination.

Bolted through door for a concealed fixing.

Can be used in conjunction with blind rose as a set and also on a plate to customers' specifications.

Available in polished aluminium, satin stainless steel and crinkle powder coated finish.

# URNS & ESCUTCHEONS

**FS104018**



**FS104022**

**FS104018**

A bathroom set with clutch knob to prevent barricading.  
Key release included.  
Coin release to special order.

**FS104118**

A bathroom set.  
Key release included.  
Spindle size 8mm.  
Spare key for the release in stainless steel FS104022.

**FS104019**



**FS104019**

A bathroom set with clutch knob to prevent barricading.  
Key release included.  
Coin release to special order.

**FS104119**

A bathroom set.  
Key release included.  
Spindle size 8mm.  
Spare key for the release in stainless steel FS104022.

**FS104020**



**FS104020**

A face fix profile escutcheon 50mm dia. Can be made in a range of thicknesses to suit cylinder and door specifications but normally supplied 10mm thick. Available in aluminium, satin stainless steel and textured powder coating.

**Options**

- A pair of bolt through escutcheons FS104320
- A single face fix escutcheon FS104020
- A single face fix blank escutcheon FS104520
- A blank escutcheon bolting through to profile escutcheon FS104720

**FS104021**



**FS104021**

A 63mm escutcheon with a chamfered edge which eliminates use as a ligature point.  
Available in aluminium or satin stainless steel.  
Supplied with tamper proof screws.

**FS104321**



**Options**

- A single face fix profile escutcheon FS104021
- A pair of escutcheons bolted through door using tamperproof bolts FS104321
- A blank escutcheon bolting through to a profile cylinder FS104721
- A blank face fix escutcheon FS104521
- A security escutcheon complete with lockable cover to prevent damage to profile cylinders FS104921

**FS104721**



# WINDOW FITTINGS

**FS104022**



**FS104022**

A simple window pull handle length 150mm, width 34mm with chamfered sides to prevent ligature attachment. Available in aluminium, satin stainless steel and crinkle powder coated finish.

**FS104024**



**FS104024**

A handle for use with espagnolette windows. Handle is removable and can be kept on a keyring. Available in satin stainless steel only.

**FS104023**



**FS104023**

A 100mm x 22mm slim line window pull. Available in aluminium and crinkle powder coated finish. Can be supplied on a plate for face fixing.

**FS104025**



**FS104025**

A locking handle for use with espagnolette windows. The handle is set in a ball joint and swings freely on release. Available in satin stainless steel only.

**FS104026**



**FS104026**

A window pull with key hole length 150mm, width 22mm. Key supplied to operate espagnolette. Available in aluminium and crinkle powder coated finish.



# LOCKS, HINGES & COAT HOOK

FS104027



FS104027



FS104028



## FS104027

A mortice lock with anti-ligature knob in stainless steel. The locking cylinder is above the lever for easier entry.

## FS104028

A bathroom mortice lock in stainless steel. For use with FS104118 and FS104010 or FS104009. The turn is above the lever giving better access to the cylinder.

FS104029



FS104029



## FS104029

A anti-ligature class 13 ball race hinge in stainless steel 100x75mm.

FS104030



## FS104030

An anti-ligature coat hook 63mm dia. The "hook" is fixed in a ball joint held in place by a spring loaded ball bearing. It will take the weight of a normal coat but additional weight will cause it to collapse, releasing any ligature. Available in stainless steel and aluminium. Can be adjusted for various weights.



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