Feeling secure at home – HOPPE break-in protection for doors and windows
The number of home break-ins has increased continually in recent years – and the trend continues. The victim of a break-in must not only cope with the material damage, but also with resulting psychological strain which should not be underestimated.

Those who would like to protect themselves should rely on solid burglary protection to make it as difficult as possible for criminals. HOPPE provides solutions which are effective at stopping burglars:

• burglary-resistant HOPPE handles with and without keyed cylinders for French and patio doors as well as windows, and
• HOPPE security hardware of all classes for external and entrance doors.

As with all of our products, HOPPE break-in protection solutions are characterised by the following brand attributes:

- 10-year guarantee on the mechanical operation
- Made in Europe
- DIN EN ISO 14001
- Environmentally-considerate manufacturing
About two-thirds of all break-ins in detached houses occur through windows or French doors. Common break-in methods are forcing the window with levers or displacing the window fitting from outside. Tilted windows, too, can be an invitation for burglars. The window handle can be reached through the opening and then turned to the opening position, thereby allowing free entry into the house.

**Important:**
In order to make a window as break-in resistant as possible, all of the components must work together and possess certain protection mechanisms. The locking mechanism of the surrounding hardware in the window profile, for example, should always be supplemented by mushroom cam locks. If the window handle is then also equipped with blocking turning mechanisms or a lock, the probability of a thief being able to open the window from outside is lowered considerably.

You should above all protect high-risk, easily-accessible windows and French and patio doors!
Determine the level of threat

Not all windows need to be secured to the same level: windows which are difficult to reach, such as on the top floor of an apartment block, are generally less at risk compared to French and patio doors at the back of a detached house.

Those who would therefore like to protect their house smartly, should consider for each window the level of risk involved and the individual security requirements.

On the following pages, you can see exactly what the different HOPPE technologies can do for window protection and which requirements they are specifically suited to.
Window security

<table>
<thead>
<tr>
<th>Product attribute</th>
<th>Special attribute</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Secustik®</td>
</tr>
</tbody>
</table>
Window handles with Secustik®

- Patented blocking mechanism between the handle and the square spindle
- Prevents the fitting being displaced from outside
- Basic security

Basic security for lower-risk areas
With our patented Secustik® technology for window handles, many windows are sufficiently secured. This is the case, for example, when

- they are less suited as a point of break-in due to their location in the house
- they are already equipped with other protection mechanisms

With the Secustik® technology, a patented blocking mechanism between the handle and the square spindle makes it more difficult for the burglar to displace the window fitting from outside. You can also hear this additional level of security: the self-securing blocking mechanism clicks into place with a precise click at different handle positions. This typical Secustik® sound is proof of the built-in security you can hear.

Also: the window handles with Secustik® technology are only marginally more expensive than our window handles without the securing element.

Model, left: Trondheim (E0430/US956), finish: F69
<table>
<thead>
<tr>
<th>Product attribute</th>
<th>Special attribute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyed locking</td>
<td>SecuDuplex®</td>
</tr>
</tbody>
</table>
Window handles with lock assemblies

- SecuDuplex® with double function: locking by means of a keyed cylinder with push-button lock function (left-hand side)
- Push-button lock (below, left)
- Keyed cylinder lock (below, right)

When you would like visible evidence of locking
A window handle which is visibly locked shows without doubt that unauthorised opening – whether from inside or outside – is not allowed! This is useful when

- you require simple protection from opening from the inside
- potential criminals should be deterred in areas which are less at risk of break-ins

Push-button lock
Keyed cylinder lock

Model, top left: Toulon (0737SV/U947), finish: F9
Model, top right: Tôkyô (0710S/U26), finish: F9016
Model, left-hand side: New York (0810SVS/U10), finish: F1
Window security

<table>
<thead>
<tr>
<th>Product attributes</th>
<th>Special attribute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category of use grade 2 to DIN EN 13126-3</td>
<td>Secu100®</td>
</tr>
<tr>
<td>Keyed locking</td>
<td></td>
</tr>
</tbody>
</table>

Certification mark

12
Window handles with Secu100®

- Protection against turning or pulling of the locked window handle
- Resistance to an applied force of 100 Nm*
- Corresponds to standardised security requirements for window handles (RAL100)

Increased protection
In certain areas of the house, increased protection of the windows or French and patio doors against break-ins is essential; without any security, these areas are easy targets for burglars. This applies

- to windows, French and patio doors in areas which are particularly at risk of break-ins: e.g. on patios and side entrances, on the ground floor, in areas of poor visibility
- to easily reachable windows on the second floor e.g. via garage roofs, rubbish bins, outbuildings, trees, etc.

At HOPPE, Secu100® technology is the standard for protection and ease of use. It provides effective burglary protection due to a reinforcement at the locking mechanism of the handle, and makes it more difficult for burglars to lever or turn it up to a torque of 100 Nm*.

* 1 Nm (newton metre) is the torque produced at the fulcrum by a force of 1 N with a lever of 1 m in length.

Model, left: Tōkyō (0710S/U26 100 Nm), finish: F9
## Window security

### Product attributes

<table>
<thead>
<tr>
<th>Product attributes</th>
<th>Special attribute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category of use grade 2</td>
<td>Secu100°, Secustik®</td>
</tr>
<tr>
<td>to DIN EN 13126-3</td>
<td></td>
</tr>
<tr>
<td>Keyed locking</td>
<td></td>
</tr>
</tbody>
</table>

### Certification mark

[Image of certification mark]
Window handles with Secu100® + Secustik®

- The combination of two protection mechanisms is effective against different break-in methods
- Extended protection even when the window handle is not locked
- Model Atlanta with Secu100® + Secustik® is one of two test winners of the Stiftung Warentest, one of the leading German consumer protection organisations

Combined protection
The ideal solution is when a burglary-resistant lockable window handle is combined with the basic security mechanism against displacing of the window fitting. This is because the basic security mechanism is also effective when the handle is not locked. This is useful

- for windows, French and patio doors in areas which are particularly at risk of break-ins: e.g. on patios and side entrances, on the ground floor, in areas of poor visibility
- for easily reachable windows on the second floor e.g. via garage roofs, rubbish bins, outbuildings, trees, etc.
- if basic security is also required in an unlocked state

Model, left: Atlanta (0530S/US952 100 Nm), finish: F1
### Product attributes

<table>
<thead>
<tr>
<th>Category of use grade 2 to DIN EN 13126-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyed locking</td>
</tr>
</tbody>
</table>

### Special attribute

Secu200®

### Certification mark

[Certification mark image]
Window handles with Secu200®

• Very high level of protection against the opening of a window by force
• Resistance to an applied force of 200 Nm*
• Corresponds to the highest standardised security requirements for window handles (RAL200)

Particularly high level of security for areas at high risk
For rooms with a very high risk of being broken into, a particularly high level of security is required. This is the case

• in residential areas with a very high risk of break-in
• in households/rooms with particularly valuable items, valuable collections, etc.
• for commercial space, offices, storage rooms etc.

The Secu200® technology doubles the protection against forced removal of the window handle known from Secu100®. The force that would have to be applied is so high (200 Nm) that only heavy tools would enable the burglars to be successful. The combination with other securing elements such as mushroom cam locks, which can prevent the levering of the window out of the frame, therefore ensures very good protection against burglary.

* 1 Nm (newton metre) is the torque produced at the fulcrum by a force of 1 N with a lever of 1 m in length.

Model, left: Luxembourg (099S/U52 200 Nm), finish: F1
## Window security

**Product attributes**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tbody>
<tr>
<td>Category of use</td>
<td>grade 2 to DIN EN 13126-3</td>
</tr>
<tr>
<td>Keyed locking</td>
<td></td>
</tr>
</tbody>
</table>

**Special attributes**

- SecuSelect®
- Secu100®
- Secustik®
- Quick-Fit

**Certification mark**

![RAL Certification Mark]
Window handles with SecuSelect

- Break-in protection of Secu100® + Secustik® (RAL100)
- Additional protection due to locking mechanism in the rosette rather than in the handle
- Individual design options

High level of protection against break-in for individualists
SecuSelect combines several effective break-in protection technologies with numerous individual design options. You can not only select the position of the locking mechanism (on the top or the bottom of the rosette) but also the shape and design of the corresponding handle. This is recommended

- when a very high level of burglary resistance is required
- when individual design is also a priority (e.g. your favourite door handle should also be the window handle)

All SecuSelect handles are equipped with Secu100® + Secustik® burglary resistance technology. Furthermore, by having the locking mechanism in the rosette rather than in the handle, protection is increased: the rosette hardly provides the thieves with a point to attack – the window remains securely locked, even if the handle is broken off during the attempted forced entry.

SecuSelect window handles are equipped with tried-and-tested HOPPE Quick-Fit connection technology.

Model, left: Las Vegas (E1440Z/US950S 100 Nm), finish: F69
An overview of burglary-resistant window handles

<table>
<thead>
<tr>
<th>Burglary protection (against attack from outside)</th>
<th>Push button</th>
<th>Standard locking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic security due to self-locking mechanism (even when not locked)</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Protection against attempts to open from the outside by displacing the window fitting</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Protection against attempts to open using loop/wire (through bore)</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Protection against opening from outside (through smashing of the window glass or tilted window)</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Correlates with standardized security requirements for window handles¹</td>
<td></td>
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<tr>
<td>Highest resistance against manipulation of the window handle</td>
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<table>
<thead>
<tr>
<th>Operation control (against opening from inside)</th>
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<tr>
<td>Protection against unauthorized opening from inside (households with people requiring protection / public buildings)</td>
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<thead>
<tr>
<th>Ease of operation</th>
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<tbody>
<tr>
<td>Variable positioning of the keyed cylinder</td>
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<table>
<thead>
<tr>
<th>Operation by touch of a button</th>
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<tbody>
<tr>
<td>Locking at the touch of a button (push cylinder)</td>
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<tr>
<td>Operation by touch of a button</td>
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</table>

¹ German RAL-GZ 607/9 or European standard DIN EN 13126-3 as well as DIN EN1627-1630
<table>
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<tr>
<th>SecuDuplex&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Secu100&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Secu100&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Secu200&lt;sup&gt;1&lt;/sup&gt;</th>
<th>SecuSelect&lt;sup&gt;1&lt;/sup&gt;</th>
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All protection characteristics are based on the locked state with the key removed (if present).
This is how you replace a window handle

The majority of window handles are constructed in the same way: generally handle rosettes are either equipped with a full or partial cover cap.

Window handle with full cover cap

When fitting to the window, the handle just has to be put in the opening (horizontal) position with the full cover cap removed from the front of the rosette via the neck and turned to the side. Now you have free access to the screwholes.

screw holes

full cover cap

Full cover cap (covers the rosette base completely)
To fit the handle all you need to do is put it in the opening (horizontal) position with the partial cover cap slightly raised and turned. Now you have free access to the screwholes.
Door security
The door as a source of danger

One of the possible entry points for burglars is the door to your house or apartment. Thanks to the excellent educational work carried out by the police amongst others, doors are often equipped with security hardware. Good technical security systems mean that almost half of all forced entry attempts fail. In contrast, doors which do not have the right security measures are almost an invitation to burglars!

In a burglary-resistant entrance door, all components should be coordinated, i.e. the resistance classes of the door leaf, hinges, locks, cylinders and fittings should correspond as much as possible. Furthermore, it is useful to take into account the location of the house or apartment whose entrance door is to be secured using security hardware.

The screws of the backplate should not be visible from the outside. As the screws are covered, the backplate cannot be unscrewed from the outside and the profile cylinder remains protected.

With a cylinder cover, the profile cylinder is even more protected, preventing it from being broken off or pulled out.
Feeling secure at home – solid protection both day and night
One visible security measure is a security handle from HOPPE. These protect the lock and cylinder on entrance doors from direct mechanical attack and render forced turning of the profile cylinder difficult.

You can get HOPPE security sets in the following security classes:

HOPPE security hardware meets the requirements of the European standard EN 1906. Four security grades (SK) are defined in this standard, spanning from low (ES0/SK1) to extra high burglary resistance (ES3/SK4). The term ES ("Einbruch-Schutz", or “break-in protection”) is only common in Germany and refers to the German standard DIN 18257 (with different numbering).
Door security
Security hardware with mild burglary resistance ES0 (SK1)

HOPPE security hardware of the ES0 (SK1) security class offers increased protection compared with usual door hardware. As the standard for this security class does not provide for a cylinder cover or steel drill protection, this hardware is suitable for entrance doors with a low risk of break-ins, such as

- doors to apartments or rooms which are already sufficiently protected due to strongly secured outside doors
- doors which do not have any other security features

Model, left: Birmingham (78G/2221A/2220/1117/PZ), finish: F1

* zinc alloy
Door security

<table>
<thead>
<tr>
<th>Product attribute</th>
<th>Special attribute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security set tested to DIN 18257 ES1 (ES2, ES3), SK2 (SK3, SK4)</td>
<td>Quick-Fit</td>
</tr>
</tbody>
</table>

Certification marks

- RAL
- PIV CERT
Security hardware with moderate burglary resistance ES1 (SK2)

HOPPE security hardware of the ES1 (SK2) security class is available with or without cylinder cover. It has a protective steel plate and a two-layer steel sub-construction underneath, and is fixed with steel lugs. The police recommend ES1 security hardware as a standard. It is suitable, for example,

- for houses in areas which are less at risk of break-ins, like areas with attentive neighbours, guard dogs, etc.

Model, left: Tôkyô (76G/3332ZA/3410/1710/PZ), finish: F1

* zinc alloy
### Door security

<table>
<thead>
<tr>
<th>Product attribute</th>
<th>Special attribute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security set tested to DIN 18257 ES1 (ES2, ES3), SK2 (SK3, SK4)</td>
<td>Quick-Fit</td>
</tr>
</tbody>
</table>

**Certification marks**

- RAL
- PIV CERT
Security hardware with high burglary resistance ES2 (SK3)

HOPPE security hardware of security class ES2 (SK3) with cylinder cover is prescribed by insurance companies for increased risks (high insurance values). The police recommend ES2 (SK3) security hardware for increased protection requirements, for example, for a house whose location places it particularly at risk. This applies, for example,

- to remote houses
- to apartments which are unoccupied for long periods, such as holiday apartments or second homes

Model, left: Dallas (E61G/2222ZA/2210/1643Z/PZ), finish: F69

* zinc alloy
**Door security**

<table>
<thead>
<tr>
<th>Product attribute</th>
<th>Special attribute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security set tested to DIN 18257 ES1 (ES2, ES3), SK2 (SK3, SK4)</td>
<td><strong>Quick-Fit</strong></td>
</tr>
</tbody>
</table>

**Certification marks**

- [RAL](#)
- [PIVCERT](#)
Security hardware with extra high burglary resistance ES3 (SK4)

HOPPE security hardware of security class ES3 (SK4) is equipped with a cylinder cover (ZA) and a 10 mm-thick, hardened steel plate. Due to its extremely burglary-resistant properties, the police recommend ES3 (SK4) security hardware for very high protection requirements, for example, for a house whose location places it at exceptional risk. This is the case,

- for very remote houses
- for certain residential areas with a very high crime level
- if highly valuable objects are stored in the house

Model, left: Marseille (E86G/3332ZA/3310/138Z/PZ), finish: F69
* zinc alloy
Burglary-resistant HOPPE profile door security hardware ES1 (SK2)

HOPPE security hardware of the security class ES1 (SK2) is also available for profile doors. It has a protective steel plate and a steel sub-construction underneath, and is fixed with steel lugs.

The same recommendations as for security hardware of grade ES1 (SK2) apply.
HOPPE also provides security escutcheons for class ES1. As they have smaller dimensions, the protective steel plate is fixed directly to the lock case. Security escutcheons are typically combined with a pull handle.

Burglary-resistant HOPPE security escutcheon ES1 (SK2)

Model: E5764 with escutcheon E52NSB-ZA/52S, finish: F69
The security classes at a glance

In order to guarantee the specified protection function, burglary-resistant door hardware must meet certain standards. These stipulate precisely which forces security hardware or a locked window handle must withstand to be deemed burglary-resistant. The hardware is divided into different classes depending on the level of resistance. For an entrance door, the European standard 1906 is authoritative; this divides burglary-resistant security hardware into the security classes SK1 to SK4. In Germany, the term ES ("Einbruch-Schutz",...
or “break-in protection”) is also used in parallel: ES0 corresponds to security class SK1, ES1 corresponds to SK2 and so on (see below). Even if the terms are different to one another, the defined protection is not: the requirements made of a burglary-resistant security fitting are the same in SK1 as in ES0.

<table>
<thead>
<tr>
<th>Security class ES1' (SK2')</th>
<th>Security class ES2' (SK3')</th>
<th>Security class ES3' (SK4')</th>
</tr>
</thead>
<tbody>
<tr>
<td>moderate burglary resistance</td>
<td>high burglary resistance</td>
<td>extra high burglary resistance</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strength of fastening elements (tensile pull with testing machine incorporating laminated wood)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 kN max. deformation ≤ 5 mm</td>
</tr>
<tr>
<td>15 kN max. deformation ≤ 5 mm</td>
</tr>
<tr>
<td>20 kN max. deformation ≤ 5 mm</td>
</tr>
<tr>
<td>15 kN max. deformation ≤ 2 mm</td>
</tr>
<tr>
<td>20 kN max. deformation ≤ 2 mm</td>
</tr>
<tr>
<td>30 kN max. deformation ≤ 2 mm</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Resistance to drilling (hardness or drill test) not required</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 HRC* lock pin area** or 30 s / 200 N</td>
</tr>
<tr>
<td>60 HRC* lock pin area** or 3 min / 200 N</td>
</tr>
<tr>
<td>60 HRC* lock pin area** or 5 min / 300 N</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Resistance to chisel (pendulum test) not required</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 impacts in predefined positions</td>
</tr>
<tr>
<td>6 impacts in predefined positions</td>
</tr>
<tr>
<td>12 impacts in predefined positions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strength of plug protection (if fitted) no 10 kN 15 kN 20 kN</th>
</tr>
</thead>
<tbody>
<tr>
<td>or “break-in protection”) is also used in parallel: ES0 corresponds to security class SK1, ES1 corresponds to SK2 and so on (see below). Even if the terms are different to one another, the defined protection is not: the requirements made of a burglary-resistant security fitting are the same in SK1 as in ES0.</td>
</tr>
</tbody>
</table>
In 1952, Friedrich Hoppe founded a company for the manufacture of door hardware in Heiliggenhaus near Düsseldorf, the former heartland of Germany’s lock and hardware industry. In 1954 he moved the business to Stadtallendorf (north of Frankfurt) and in so doing laid the foundation for continual growth.

Today, the HOPPE Group, an internationally active company with its headquarters in Switzerland, is led by Wolf Hoppe and Christoph Hoppe in its second generation.

With more than 2,600 people it employs in seven plants in Europe and the USA as well as its international marketing, the owner-run HOPPE family business is the European leader in the development, manufacture and marketing of hardware systems for doors and windows.

The Product Range

For all those who want to improve the interior design of their homes, HOPPE is Europe’s leading brand of door and window handles. Our products stand out by their high quality and fair price, enabling you to highlight your own particular style of interior decoration.

Everyone is sure to find something to his taste in our wide range. HOPPE products are the first choice of professionals.

We offer you a wide range of attractive hardware for your doors and windows. In this way, you can put your own mark on your house or flat by fitting HOPPE handles, from the impressive front door to the interior doors and windows, in a choice of materials such as aluminium, stainless steel, nylon or brass.
The Environment

HOPPE regards the protection of the environment with utmost importance.

Examples of measures taken include:
• the manufacture of hardware in an environmentally-considerate way
• the recycling of waste-water and the use of a circulatory system for water required in manufacture
• environmentally-considerate packaging material
• the use of recyclable scrap as secondary raw material in the internal raw material cycle
• the use of process heat
• the generation of alternative energy
• energy efficiency measures
• membership of the Hesse State Environmental Alliance

Since 2001 all production facilities of the HOPPE Group in Germany, Italy and the Czech Republic are certified to DIN EN ISO 14001:2009 (Environmental Management System). Since 2014, HOPPE AG, Stadtallendorf, is certified to DIN EN ISO 50001:2011 (Energy Management System).

The Handle of Excellence.

Enjoy the feel of quality. Indeed, touching a quality handle reassures you that you have made the right choice. Hardware with this logo is a brand-name product, which, in our view, is tantamount to a promise of quality.

All production sites of the HOPPE Group in Germany, Italy and the Czech Republic are certified according to DIN EN ISO 9001:2008.
You can find further information on the technology and model variants, as well as films about our products, at www.hoppe.com and www.zuhause-geborgen-sein.de.