

## A GUIDE TO SECURITY RATINGS: LPS 1175 ISSUE 8

**Ranging from A1 all the way up to H20, security ratings are essential to consider when specifying or installing perimeter security to meet a specific performance requirement. Security ratings represent a perimeter fencing system's resistance to forced entry and are only awarded to products from ISO 9001-accredited businesses after rigorous independent testing and assessment by BRE.**

For specifiers of security fencing, LPS 1175 certified fencing systems offer proven security and complete confidence in protecting against a range of threats. In some applications they are a legal requirement.

This guide offers an overview of the importance of LPS 1175 security ratings and how they are applied, with a breakdown of the more comprehensive criteria that Issue 8 provides and which Jacksons Fencing products are certified under this standard.



### Security Ratings: Who decides?

BRE Global is an international authority on security certifications which assesses and awards security ratings in coordination with manufacturers and insurers. BRE Global's Loss Prevention Certification Board (LPCB) tests and certifies security products, using Loss Prevention Standard LPS 1175 certification to inform specifiers, architects and installers of the varying strength levels in security systems. Products under this standard are audited continuously to ensure compliance, a downfall of other standards that eventually become outdated.

# The 5 Ds of Perimeter Security

Establishing a robust perimeter requires a comprehensive strategy. The 5 Ds of perimeter security, listed below, work on the 'onion skin' principle; multiple layers of security working together to protect a site's assets and offer the time and intelligence you need to respond swiftly and effectively.

## DETER

Applying visual deterrents, such as fencing, security toppings, lighting and signs, can discourage intruders before they attempt to breach your site.

## DETECT

The ability to detect trespassers by human observation and/or electronic surveillance provides the intelligence to support an appropriate security response.

## DEFEND

The final security measure usually involves your security team or the police apprehending the intruder.

## DELAY

A range of delaying methods can offer valuable time to deal with a security breach; road blockers fencing around assets, gates and turnstiles, interior doors with access control, all slow down an intruder.

## DENY

Access control solutions, such as manned security gates or swipe card systems, allow you to manage and monitor who enters and leaves your premises and where they can access while inside.

## How are Security Ratings Classified?

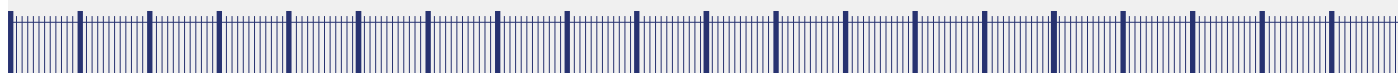
A security rating is dependent on the delay a product provides in minutes, against a specific toolkit. These are indicated in the rating by a letter and a number. For example A1 (the lowest possible rating) will protect a site for a length of 1 minute, against a category A toolkit, up to H20 which will protect against a category H toolkit for 20 minutes. Previously in Issue 7, there were only 8 security ratings, so there was limited choice.

For example, if the property you were protecting was likely to be targeted using category D tools, the minimum security rating would have been SR4, irrespective of whether the product needed to provide the corresponding 10 minute delay. Now, the specific delay required and the toolkit can be

cross-referenced to find a product that offers a more proportionate use of budget, rather than going for a product which lacks the required protection, or which is over-engineered and costly. When awarding a security rating, BRE puts a security system through meticulous testing; testing fencing as a security barrier, for example, takes the form of simulated attacks with the intention of breaching the fence through its fabric.

To assess security, there are continuous adjustments made during these tests: the duration of the attack, the type of tool used, and number of attackers, the increasing severity of which contribute to the security rating awarded.

Jacksons Fencing is the only UK manufacturer to offer a single-layer fence system rated to LPS 1175 E10, the highest current security rating achieved by a fencing system.



## Tools, Times and Security Ratings

The table below shows the security ratings and shows where the previous ratings 1 to 8 fit within the new classification system.

		SECURITY RATING CLASSIFICATION							
DELAY	20 Minutes	A20	B20	C20	D20	E20	F20	G20	H20 (SR8)
	15 Minutes	A15	B15	C15	D15	E15	F15	G15	H15
	10 Minutes	A10	B10	C10	D10 (SR4)	E10 (SR5)	F10 (SR6)	G10 (SR7)	H10
	5 Minutes	A5	B5	C5 (SR3)	D5	E5	F5	G5	H5
	3 Minutes	A3	B3 (SR2)	C3	D3	E3	F3	G3	H3
	1 Minute	A1 (SR1)	B1	C1	D1	E1	F1	G1	H1
TOOLKIT	LPS 1175: Issue 8	A	B	C	D	E	F	G	H
	LPS 1175: Issue 7	A	B	C	D	D+	E	F	G

## Tool Categories A-E

The table below indicates the toolkits that correspond with the letter rating for each classification. The maximum number of attackers is also now specified within the standard. Categories F-H (not shown) have two attackers.

Tool Category	A	B	C	D	E
Tools Included	<ul style="list-style-type: none"> <li>• Cable cutter</li> <li>• Pliers</li> <li>• Screwdriver</li> <li>• Spanners</li> <li>• Knife</li> </ul>	<ul style="list-style-type: none"> <li>• Bolt cutter</li> <li>• Claw hammer</li> <li>• Hand drill</li> <li>• Pipe wrench</li> <li>+ Cat. A tools</li> </ul>	<ul style="list-style-type: none"> <li>• Axe</li> <li>• Crowbar</li> <li>• Gas torch</li> <li>• Hacksaw</li> <li>+ Cat. A, B tools</li> </ul>	<ul style="list-style-type: none"> <li>• Disc grinder</li> <li>• Fire axe</li> <li>• Jigsaw</li> <li>• Sledgehammer</li> <li>+ Cat. A, B, C tools</li> </ul>	<ul style="list-style-type: none"> <li>• Circular saw</li> <li>• Reciprocating saw</li> <li>+ Cat. A, B, C, D tools</li> </ul>
Number of attackers	1	1	1	1	1
Description	An opportunist attack by bodily physical force and stealth	A more determined opportunist attack	Deliberate forced entry of protected premises	Experienced attempt at forced entry with higher-level tools	A serious attempt at forced entry with top-end tools
Jacksons Solution	Barbican SR1 Series Vertical Bar Railings Euroguard Flatform SR1 Mesh Euroguard Combi SR1 Steel/Timber combination	Securi-Mesh Plus SR2 Steel Mesh System	Jakoustic Class 3 Timber Acoustic Security Fence UHS Heavy/Extreme	Trident 4 Vertical Railing & Mesh Combination	Trident 5 Vertical Railing & Mesh Combination

Jacksons manufactures solutions that are certified against toolkits A-G, for 1-10 minutes.

### **A1 (SR1) - products that protect against toolkit category A, for 1 minute:**

Vertical Bar: Barbican® A1 Series: Barbican, Barbican Imperial, Barbican Extra, Sentry, Barbican with Finials, Barbican Barbed Top, Barbican Defender Xtreme

Welded Mesh: EuroGuard Flatform Heavy, EuroGuard Combi, Securi-Mesh

### **B3 (SR2) - products that protect against toolkit category B, for 3 minutes:**

Welded Mesh: Securi-Mesh Plus

### **C5 (SR3) - products that protect against toolkit category C, for 5 minutes:**

Acoustic Barriers: Jakoustic Class 3 (this product range has been tested to Issue 8 and can also withstand attacks from F and G category tools for 1 minute)

Welded Mesh: UHS Heavy, UHS Extreme

### **D10 (SR4) - products that protect against toolkit category D, for 10 minutes:**

Vertical Bar & Mesh Combination Fence: Trident 4

### **E10 (SR5) - products that protect against toolkit category E, for 10 minutes:**

Vertical Bar & Mesh Combination Fence: Trident 5



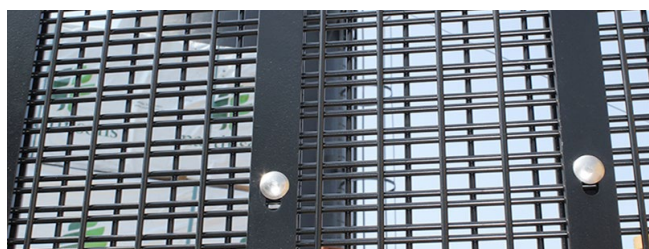
# Implications for Product Design

LPS 1175-certified fencing should be specified and installed after assessing a site to ensure the solution is appropriate to the risks of the project. From the fencing itself to features that offer additional protection, there isn't a one-size-fits-all solution to perimeter security; the best security fencing solutions are designed to suit a site's specific needs and challenges.

## Additional security features that can strengthen a site's perimeter security include:

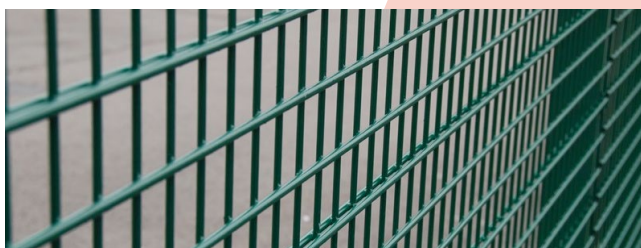
### Anti-scale

Security fencing cannot do its job if it is easily scalable; to prevent easy access to a site over the top of a barrier, features such as barbed wire, razor tape and broken glass are off-putting and pose a physical threat to intruders, while rotating/spinning toppings and a specific aperture to eliminate fingerholds or footholds.



### Double skinning

Designing fencing with two layers of mesh, or 'double skinning', creates an extra layer that must be cut through to breach the fencing. This impedes an intruder's progress and, if attacked, may raise the alarm due to noise made by destructive tools. This form of fencing design also prevents objects from being passed through the fencing due to its small apertures.



### Welded mesh

Using narrow steel wiring reduces the ability of potential intruders to grip the fence by eliminating any potential hand or footholds. The small gaps between the mesh make it much harder for anything inside the perimeter to get out, whilst galvanised welded mesh (mesh coated in zinc or zinc alloy) is more resistant to both corrosion and attack.

## Why Jacksons?

- ✓ Certified security solutions A1-G1
- ✓ Expert knowledge from our dedicated team
- ✓ Unique 25-year guarantee
- ✓ Quality installation by experts
- ✓ Manufactured in the UK to the highest standards
- ✓ Bespoke solutions based on a thorough assessment of your site

Find out how Jacksons Fencing's security experts can support your project by contacting us on:

**0800 408 2611**

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# Jacksons Fencing