Q-Lon foam weatherseal: for PVC, timber and aluminium applications

THE WORLD'S BEST WEATHERSEAL

The Schlegel Promise!
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Schlegel: providing the ultimate in modern weatherseals

With over 50 years of global experience in the design and manufacture of outstanding window and door products, it is little wonder that Schlegel has become the industry’s first choice for not only weatherseal products, but locking and security systems, handles and hardware.

The unique Q-Lon weatherseal range has been developed in consultation with our customers to offer the widest range of seals possible for timber, PVC and aluminium windows and doors and internal timber applications. The unique design has made Q-Lon the seal of choice for many applications, Q-Lon impervious to paint and stain, while still providing some of the best energy saving performance characteristics currently available.

Backed by our lifetime guarantee, Q-Lon will never let you or your customer down, making it a highly cost effective way of offering continuous high standards of weathersealing, year after year.
- Polyurethane foam core – high durability, superior recovery performance
- Polyethylene film – weather and UV resistant
- Glass fibre thread or polypropylene insert – prevents elongation and shrinkage
- Smooth or embossed exterior, resistant to contamination
- Compatible with cleaning agents
Q-Lon Profiles: proofed and tested for over 30 years

Made with a unique combination of materials and with technical performance unparalleled by any other material used in weatherseals, Schlegel Q-Lon offers the highest standard of sealing function – even under extreme conditions.

Continuous research and development, as well as strict material inspection and quality inspections, have made Q-Lon one of the best established sealing systems in the industry today.

Q-Lon – the ultimate benefits in material and function:
- **Excellent memory** – returns to original shape after compression
- **Stability** – low/no stretch gained by glass fibre internal cord or insert
- **Easily compressed** – low compression forces, unaffected by temperature variance
- **Acoustics** – outstanding acoustic performance - independently tested
- **Thermal conductivity** – unrivalled thermal performance - independently tested
- **Paint and stain proof** – properties unaffected by standard paints and stains
- **Stabilised** – unaffected by rot, fungi, UV light or ozone
- **Colour** – wide range of available options
- **Temperatures** – the widest operating range -60 °C to +70 °C

Air flow comparison

The graph below shows the weather performance against competitor gaskets and demonstrates that Q-Lon provides less air leakage over a wide temperature range when compared to our competitors.

![Air flow comparison graph](image)
Quick processing without corner cutting
Not siliconised, neutral smell and no discolouration
Low closing forces – low friction
Available colours: white, black and grey. Other colours available on request
Q-Lon Profiles: for PVC doors, windows and roller shutters

Specifically designed to meet the different demands of PVC casement windows, Schlegel Q-Lon foam weather seal maintains consistently high standards of energy efficiency, often exceeding any long-term window performance guarantees.

<table>
<thead>
<tr>
<th>Testing and results</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tested temperature range:</td>
<td>-60 °C to +70 °C</td>
</tr>
<tr>
<td>Heat conductivity:</td>
<td>0.06 W/mK at 0 °C</td>
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<td>Compression force:</td>
<td>approx. 15 N at 25% compression per 100 mm, &lt; 10 N for lip profiles</td>
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<td>Compression set:</td>
<td>&lt; 15% after 30 minutes relief of 50% compression at 70 °C and 24 hours. (EN ISO 1856)</td>
</tr>
<tr>
<td>Weather resistance:</td>
<td>tested up to 21 years</td>
</tr>
<tr>
<td>Ozone resistance:</td>
<td>Crack stage 0</td>
</tr>
<tr>
<td>Abrasion resistance:</td>
<td>No abrasion after 285,000 cycles of grinding load</td>
</tr>
<tr>
<td>Compatibility:</td>
<td>Compatible with PVC-U, no crack formation in the contact material</td>
</tr>
<tr>
<td>Colour fastness:</td>
<td>No contact discolouration (colour fastness index &gt;4)</td>
</tr>
</tbody>
</table>

Tested and certified by:
**QL 9113**
Metres/coil: 400

**QL 9154**
Metres/coil: 300

**QL 9257**
Metres/coil: 300

**QL 9419**
Metres/coil: 200/400/800

**QL 9426**
Metres/coil: 200/400/800

**QL 9489**
Metres/coil: 250/700
QL 9536
Metres/coil: 250

QL 9619
Metres/coil: 250

QL 9646
Metres/coil: 250

QL 9596
Metres/coil: 300/700

QL 9665
Metres/coil: 300

QL 9667
Metres/coil: 300
QL 9898  
Metres/coil: 300

QL 9926  
Metres/coil: 300

QL 9928  
Metres/coil: 300
Efficient processing – right from the coil, no waste
Easy and quick assembly by cutting-out of the mitre corners
Compatible with all paints and glazes, including acrylic paints
Available colours: brown, white, black, grey, beige, oak light and chestnut. Other colours available on request
**Q-Lon Profiles: for timber doors and windows**

Specifically designed for timber windows and doors, Q-Lon foam weather seal offers the best acoustic and thermal performance across the widest temperature range. Very low operating forces reduces wear and tear and gives ease of operation.

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<tr>
<td>Long life performance</td>
<td>No change of the length-related and partial joint permeability</td>
</tr>
<tr>
<td>Environment testing</td>
<td>Tested and passed pursuant to DIN 18055, EN12207 and EN12208 to 600 Pa at single and French window</td>
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<tr>
<td>Paint compatibility</td>
<td>No adhesion, no hardening, no discolouration</td>
</tr>
<tr>
<td>Acoustic testing</td>
<td>43 dB *) or 45 dB **) measured at a window IV68 with sash rebate seal *) or a window IV76 with a sash rebate seal and second sash sealing **)</td>
</tr>
<tr>
<td>Weather-resistant</td>
<td>Tested up to 21 years</td>
</tr>
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**Tested and certified by:**

[Images of certification marks]
AQ 33
Metres/coil: 200

AQ 48
Metres/coil: 350

AQ 63
Metres/coil: 100/300

AQ 109
Metres/coil: 250

AQ 120
Metres/coil: 250

AQ 4846
Metres/coil: 200

AQ 4922
Metres/coil: 200

AQ 5271
Metres/coil: 250
QL 1026
Metres/coil: 250

QL 3059
Metres/coil: 300

QL 3124
Metres/coil: 200/500/1000/1500

Zerogap
Metres/coil: 100/500

QL 1032
Metres/coil: 250

QL 3115
Metres/coil: 250

QL 3122
Metres/coil: 250

QL 3042
Metres/coil: 400

QL 3126
Metres/coil: 400/700

QL 9171
Metres/coil: 500/1000

Adhesive tape

Shown without adhesive tape

Shown with adhesive tape
- Exceptional performance maintained over a wide temperature range
- Lower insertion forces speed up fitting by 15%
- Compensates for window movement
- Available colours: brown, white, black, grey, beige, oak light and chestnut. Other colours available on request
Q-Lon Profiles: for aluminium doors and windows

Specially designed to meet the different demands of aluminium windows and doors, Q-Lon foam weather seal has excellent compression recovery of 99%, giving constant height at corners for improved weathering.

Testing and results

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<td>Weather resistance:</td>
<td>tested up to 21 years</td>
</tr>
<tr>
<td>Ozone resistance:</td>
<td>Crack stage 0</td>
</tr>
<tr>
<td>Abrasion resistance:</td>
<td>No abrasion after in excess of 100,000 cycles with no failure mode</td>
</tr>
<tr>
<td>Colour fastness:</td>
<td>No contact discolouration (colour fastness index &gt; 4)</td>
</tr>
<tr>
<td>Controls:</td>
<td>Manufactured in accordance with ISO9001</td>
</tr>
</tbody>
</table>

Tested and certified by:
<table>
<thead>
<tr>
<th>Model</th>
<th>Metres/coil:</th>
<th>Dimensions</th>
<th>1</th>
<th>2,7</th>
<th>3,18</th>
<th>1,77</th>
<th>1</th>
<th>5,33</th>
</tr>
</thead>
<tbody>
<tr>
<td>QL 48400</td>
<td>200/700/900</td>
<td>4,83</td>
<td>2,7</td>
<td>3,18</td>
<td>1,77</td>
<td>1</td>
<td>5,33</td>
<td></td>
</tr>
<tr>
<td>QL 48510</td>
<td>100/200/300/700/900</td>
<td>4,85</td>
<td>2,8</td>
<td>3,2</td>
<td>1,3</td>
<td>1</td>
<td>5,3</td>
<td></td>
</tr>
<tr>
<td>QL 48750</td>
<td>200/600</td>
<td>4,85</td>
<td>2,8</td>
<td>3,2</td>
<td>1,3</td>
<td>1</td>
<td>5,3</td>
<td></td>
</tr>
<tr>
<td>QL 48950</td>
<td>100/200/500</td>
<td>4,85</td>
<td>2,8</td>
<td>3,2</td>
<td>1,3</td>
<td>1</td>
<td>5,3</td>
<td></td>
</tr>
<tr>
<td>QL 48447</td>
<td>250</td>
<td>8,4</td>
<td>11,3</td>
<td>9,8</td>
<td>6,2</td>
<td>5,3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QL 48650</td>
<td>200/500/800</td>
<td>4,85</td>
<td>4,2</td>
<td>3,2</td>
<td>1</td>
<td>5,3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QL 48800</td>
<td>250/305</td>
<td>7,7</td>
<td>10,4</td>
<td>7</td>
<td>2,3</td>
<td>4,6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QL 57700</td>
<td>200</td>
<td>4,2</td>
<td>5,7</td>
<td>3,8</td>
<td>2,3</td>
<td>4,6</td>
<td></td>
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Suitable for internal timber doors and sliding wardrobe, closet and sideboard doors.

Helps to reduce noise, dust and light contamination.

Available colours: brown, white, black, grey, beige, oak light and chestnut. Other colours available on request.
Q-Lon Profiles:  
for internal timber applications

Internal door and sliding door furniture weatherseals are used as insulation to prevent air, dust, light and other contaminants from entering the gaps. The product is attached to the door frame creating an airtight seal when the door is closed.

Testing and results

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Tested and certified by:
QL 60
Metres/coil: 250

QL 65
Metres/coil: 250

QL 70
Metres/coil: 250

QL 3073
Metres/coil: 100/150

QL 3078
Metres/coil: 250

QL 3091
Metres/coil: 150

QL 3093
Metres/coil: 400

QL 3094
Metres/coil: 250
Accessories: for Q-Lon Profiles

Q-Lon mitre cutters
Q-Lon mitre cutters have an insertion roll for 90° and end cut for assembly in the sash. Part no. MIS-9001-97.

Q-Lon insertion roller
Profile manual roller. Part no. MIS-9007-01.

Installation of Q-Lon in the sash

Step 1
The Q-Lon profile is pressed into the kerf at the centre of the sash.

Step 2
The Q-Lon pliers are placed in the rebate corner with the stop and a 90° mitre is cut out.

Step 3
The final cut: by positioning the pliers against the profile as shown, the final cut is made in the precise length.
Case Study: Carinbisa, leading timber and aluminium window manufacturer

Carinbisa (Carpinteria Industrial Binéfar S.A.) integrates design and technology in the manufacturing of wood and wood-aluminium windows, they solely use Schlegel Q-Lon seals in their windows due to its exceptionally high performance values.

Hotel Catalonia Atocha, Madrid

Carinbisa high-performance timber windows, which feature the Q-Lon weatherseal, were chosen for the 4-star Hotel Catalonia Atocha, Madrid, providing the highest standard of weatherseal to this quality establishment.

“In the group Carinbisa, we only use Q-Lon for our windows. Moreover, our standard product range is homologated by AENOR with quality mark N.”

Javier Subias, Carinbisa Commercial Department

Client: Hoteles Catalonia  
Project: Hotel Catalonia Atocha 4*  
Location: Madrid  
Window material: Timber  
Schlegel product: QL 3053 and QL 3054; white

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