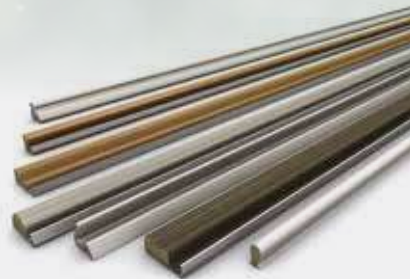


# SCHLEGEL **PROTECTS** WHATEVER THE WEATHER



HIGH PERFORMANCE  
**SEALING** SOLUTIONS



**Quanex**<sup>®</sup>

**Schlegel**

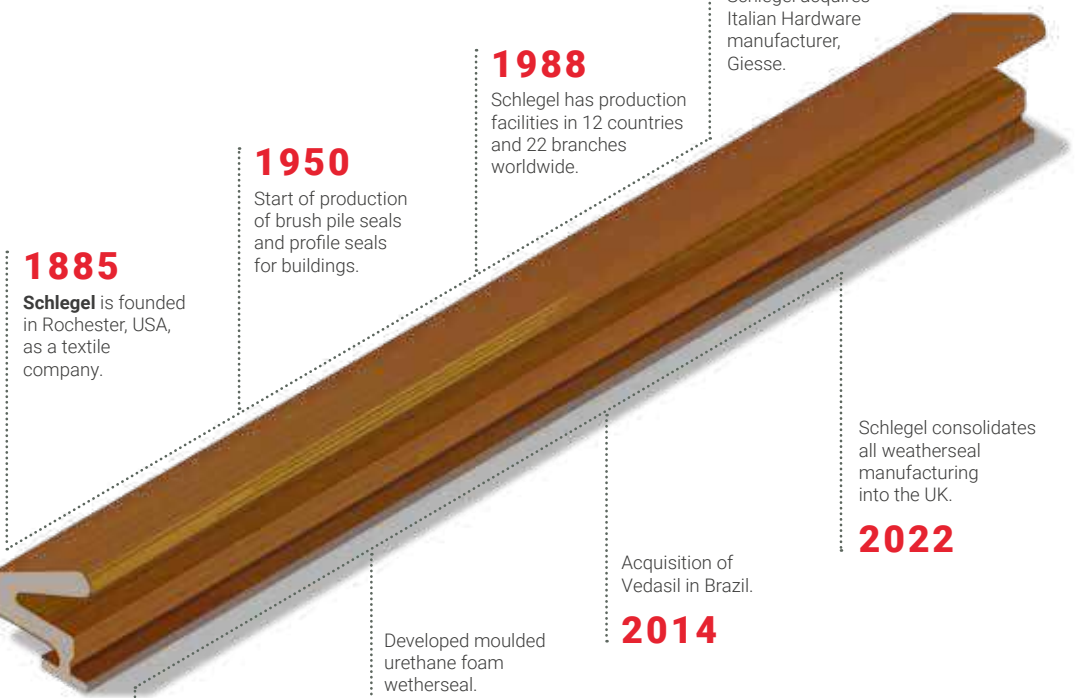
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# ABOUT US

**Schlegel** was founded in Rochester, USA, in 1885 as a textile company. In 1930, it began producing brush seals and sealing profiles for buildings, before introducing foam seals in the 1960s.



**1885**  
Schlegel is founded in Rochester, USA, as a textile company.

**1930**  
The company starts producing trimmings for carriages, baskets and clothing.

**1950**  
Start of production of brush pile seals and profile seals for buildings.

**1960**  
Developed moulded urethane foam wetherseal.

**1988**  
Schlegel has production facilities in 12 countries and 22 branches worldwide.

**2014**  
Acquisition of Vedasil in Brazil.

**2016**  
Schlegel acquires Italian Hardware manufacturer, Giesse.

**2022**  
Schlegel consolidates all weatherseal manufacturing into the UK.



## WHY CHOOSE SCHLEGEL?

### TRUSTED

We've earned an excellent reputation

### PERFORMANCE

Quality products – the manufacturer of Q-LON

### SERVICE

Bespoke service – Product customisation available

### QUALITY

Unique manufacturing processes – Made in Britain

### EXPERIENCE

Heritage – Over 140 years of experience and knowledge

### CHOICE

Extensive product ranges

### RESOURCES

Backed by Quanex, *a part of something bigger*

### PEACE OF MIND

Technical expertise – Standards, accreditations, testing



Q-LON

## Polyurethane foam seals

For timber, aluminium and PVC-U applications



## WHY CHOOSE Q-LON FROM SCHLEGEL?

Q-LON is widely recognised as the benchmark for gasket systems. It has exceptional technical, durability and reliability performance, ideal for use in a wide range of applications and challenging conditions.

Key benefits include:

### BETTER COMPRESSION PERFORMANCE

Long-term compression set recovery to 90% of original shape

### QUIETER INTERNAL ENVIRONMENTS

Leading sound reduction from extensive testing work

### MINIMAL RISK OF WATER INGRESS

Q-LON is water resistant by design, with in-built inhibitors to provide a barrier to moisture

### PERFORMANCE RELIABILITY

Minimal stretch during installation, for minimal creep back over time

### LONGER LASTING

Thanks to compression recovery and technical quality

### ENERGY SAVINGS

From very low thermal conductivity

### EFFORTLESS GLIDE

Low friction liners suitable for sliding applications

### FUSS-FREE CLEANING

Unaffected by many popular solvents and cleaning products

### FAST MANUFACTURING

Bespoke designs support customer-specific production processes

### PEACE OF MIND

Q-LON products are guaranteed for 10 years

|                                                                  |    |
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# MATERIALS AND COLOURS

The Schlegel Q-LON gasket, proudly **Made in the UK**, is crafted from a unique polyurethane foam encased in a weather-resistant polyethylene liner.

As the original innovation of its kind, Q-LON sets the standard for quality and performance in sealing solutions.

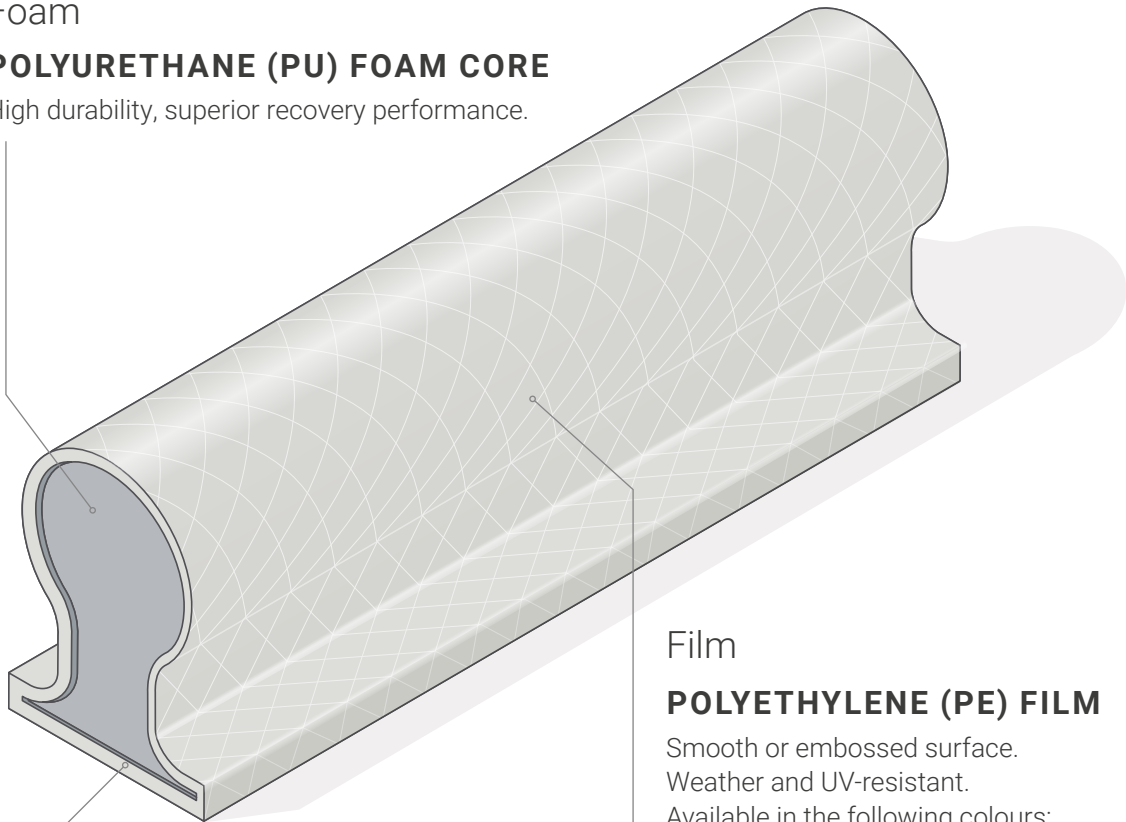
Q-LONs do not contain SVHC (Substances of Very High Concern) in a concentration above 0.1 % by weight.



Foam

## POLYURETHANE (PU) FOAM CORE

High durability, superior recovery performance.



Film

## POLYETHYLENE (PE) FILM

Smooth or embossed surface.  
Weather and UV-resistant.  
Available in the following colours:

### Standard Colours

- WHITE / RAL 9003 / Code 222
- SILVER / RAL 7001 / Code 212
- BROWN / RAL 8019 / Code 220
- BLACK / RAL 9005 / Code 223

### Extra Colours

- BEIGE / RAL 1001 / Code 211
- LIGHT OAK / RAL 8003 / Code 217
- FAWN BROWN / RAL 8007 / Code 218
- PURE WHITE / RAL 9010 / Code 221
- LIGHT GREY / RAL 7035 / Code 215
- PEBBLE GREY / RAL 7032 / Code 252
- GRAPHITE GREY / RAL 7024 / Code 214

Insert

## POLYPROPYLENE (PP), POLYCARBONATE OR WITH GLASS FIBRE CORD

Prevents elongation and shrinkage.

# EVERLASTING

\*Accelerated ageing test performed according to DIN EN ISO 4892-2 on a selection of Q-LON and other seals on the market.

The **external polyethylene film** is not altered by paints, detergents or dyes. Its high resistance to atmospheric conditions and UV radiation ensures that Q-LON **lasts three times longer\*** than the most common foam seals.

# FIRE RETARDANT

Seals classified to EN 13501-1, Class E, **designed to reduce the spread of fire** when in contact with it, slowing the speed of flames and avoiding the dispersion of flammable material.

# VERY LOW THERMAL CONDUCTIVITY

\*Test performed in accordance with EN 12667:2001 standard in comparison with extruded gaskets

Q-LON polyurethane seals offer the **lowest thermal conductivity** on the market (**0.04 W/m·K at 0°C**), 3 to 6 times better than other materials.

# LOOKING AT THE FUTURE







## EXCELLENT MEMORY

The original formulation of Q-LON enables it to **return to its original shape after being compressed up to 50%** more than other extruded seals, even at extremely low temperatures.

## EFFORTLESS AND PERFECT ADHERENCE

Thanks to the characteristic softness and adaptability of Q-LON, windows require a **low compression force** when closing. Q-LON therefore continues to provide a tight seal even when the window undergoes alterations due to temperature fluctuations or ageing.

## EXCELLENT SOUND INSULATION

Exceptional acoustic **insulation performance** thanks to high compression ability. **Up to 4 dB\* noise reduction** compared with extruded seals.

## Q-LON FOR SLIDING DOORS

**LOW FRICTION**  
No linear damage  
after **40,000** cycles

Compared with common brush seals, Q-LON offers highly superior air/water tightness, noise insulation performance and styling. **Tested for friction damage on sliding doors to 40,000 cycles.**

## THERMAL CONDUCTIVITY TO EN ISO 10077-1 2006 AND EN 12524 2012

The unique Q-LON seal is made from a special polyurethane foam, contained in a weather resistant polyethylene liner.

### THERMAL CONDUCTIVITY

Section 4.12 of EN 14351-1 2006 stipulates the methods for determining thermal transmittance of windows and doors that can be used for EC Declarations of Performance. Common window configurations can use standard tables within EN 10077-1 2006 for declared thermal performance values, though more accurate values can be obtained by individual calculation or hot box testing. In accordance with 4.12 of EN 14351-1, calculations used for declaring thermal transmittance should be conducted in accordance with the methodology stipulated in EN ISO 10077-1 2006 and EN ISO 10077-2 2012. EN ISO 10077-2 2012 details the process for the calculation of frame element of windows, and doors, including weather seals and gaskets. For thermal calculations, it is necessary to understand the linear thermal transmittance, or thermal conductivity, of the individual frame component materials. Section 5.1 of EN ISO 10077-2 2012 refers to a further standard, EN ISO 10456 2007, as a suitable source of tabulated performance values for a variety of building materials.

### WHICH SEAL HAS THE LOWEST CONDUCTIVITY?

Table 3 of EN ISO 10456 2007 details polyurethane foam weather seals with a linear thermal transmittance of 0.05 W/(m.K). This should be the value used for Q-LON seals within window and door specifications, when calculating thermal performance declarations in compliance with the requirements of EN 14351-1 2006.

The material performance values within **Table 1 of EN ISO 10456 2007 also highlight the superior thermal performance of Q-LON.**

There is a proverb that says: a chain is only as strong as its weakest link. This also applies to the fenestration industry. Doors and windows only perform as well as the seal. The thermal performance that can be achieved by a window

or door is determined by many different factors. The composition of the frame material and the glass are both very important. A low quality seal, however, can easily spoil the energy saving effects of insulated profiles and argon filled HR glass. Under EN ISO 10456:2007, the design thermal conductivity of different materials used for seals is detailed thus:

- EPDM 0.25 W/(m.K)
- PVC-U 0.14 W/(m.K)
- PU 0.05 W/(m.K)

In accordance with EN 12667 (Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods), it now has been independently tested and certified by ift Rosenheim: Q-LON has a measured low thermal conductivity of **just 0.04 W/(m.K)**.

This is better than any other weather seal available in the market. Compared to other seals, energy loss is minimised. In combination with an excellent high compression recovery (on average higher than 90%) a high performance is also guaranteed over the long term.

| Evidence of Performance                                                       |                                                                                                                                                                                                                                                                                                 | ift                                                                                                                   |  |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--|
| Thermal conductivity (declared value)                                         |                                                                                                                                                                                                                                                                                                 | ROSENHEIM                                                                                                             |  |
| Test Report<br>No. 15-003940-PR01<br>(PB-K03-06-en-02)                        |                                                                                                                                                                                                                                                                                                 | Basis:<br>EN 12567:2001-01<br>EN ISO 10456:2009-12                                                                    |  |
| Client                                                                        | SCHLEGEL GERMANY GMBH<br>Bredowstr. 33<br>22113 Hamburg<br>Germany                                                                                                                                                                                                                              | Test report 15-003940-PR01<br>(PB-K03-06-de-03) dated<br>27.07.2016                                                   |  |
| Product                                                                       | Flexible polyurethane foam boards                                                                                                                                                                                                                                                               | *) Equivalent national version (e.g. DIN EN)                                                                          |  |
| Designation                                                                   | "Q - Lon Platten"                                                                                                                                                                                                                                                                               | Representation                                                                                                        |  |
| Performance-relevant product details                                          | Dimensions: with a height of approx. 255 x 255; material: Flexible polyurethane foam based on polyol, both sides with polyethylene facing / 95 µm; Facing agent: water / carbon dioxide; Density in g/cm³: 125 to 136; Closed pore structure; open pores; Application: seals for windows, doors | Instructions for use<br>The test report serves to demonstrate the thermal conductivity (declared value) $\lambda_D$ . |  |
| Conditioning                                                                  | After delivery, the test specimens were conditioned at 23°C / 50 % relative humidity until achieving constant mass (0.1 % / 24 h).                                                                                                                                                              | Validity<br>The data and results given refer only to the tested and described specimen. This test!                    |  |
| Special features                                                              | The test specimens were characterised by unevenness resulting from the manufacturing process.                                                                                                                                                                                                   |                                                                                                                       |  |
| Results                                                                       | Thermal conductivity (declared value)<br>$\lambda_D = 0.041 \text{ W/(m} \cdot \text{K)}$                                                                                                                                                                                                       |                                                                                                                       |  |
| *) The thermal conductivity was determined at an average temperature of 10°C. |                                                                                                                                                                                                                                                                                                 |                                                                                                                       |  |



# CLASSIFICATIONS

## OF WEATHERSEALS ACCORDING TO EN 12365 2003

Under EN 12365 2003 there is a prescribed classification system that enables window, door, shutter and curtain walling manufacturers or installers to ensure that they are using the component that best meets their requirements.

| A SIX-DIGIT SYSTEM IS USED     |                                                                                   |                                                                               |                                                                                               |                                                                                                                |                                                                                                                  |
|--------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 1                              | 2                                                                                 | 3                                                                             | 4                                                                                             | 5                                                                                                              | 6                                                                                                                |
| Category of use                | Working range                                                                     | Linear compression force                                                      | Working temperature range                                                                     | Deflection recovery                                                                                            | Recovery after ageing                                                                                            |
| W = Weatherstrip<br>G = Gasket | 9 grades showing the working range of the seal; 9 indicates the greatest distance | 9 grades showing the linear compression force; 9 indicates the greatest force | 6 grades showing the working temperature range. Each with different high and low temperatures | 8 grades showing deflection recovery; grade 0 indicates no requirement and grade 7 shows the greatest recovery | 8 grades showing recovery after ageing; grade 0 indicates no requirement and grade 7 shows the greatest recovery |

| GRADES |                                                                                                                                                           |                                                                                                                                                                                                 |                                                                                                                          |                                                                                                                                           |                                                                                                                                           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|        | 1: ≤ 1 mm<br>2: >1 mm ≤2 mm<br>3: >2 mm ≤4 mm<br>4: >4 mm ≤6 mm<br>5: >6 mm ≤8 mm<br>6: >8 mm ≤10 mm<br>7: >10 mm ≤15 mm<br>8: >15 mm ≤30 mm<br>9: >30 mm | 1: ≤ 10 N/m<br>2: >10 N/m ≤20 N/m<br>3: >20 N/m ≤50 N/m<br>4: >50 N/m ≤100 N/m<br>5: >100 N/m ≤200 N/m<br>6: >200 N/m ≤500 N/m<br>7: >500 N/m ≤700 N/m<br>8: >700 N/m ≤1000 N/m<br>9: >1000 N/m | 1: 0°C to +45°C<br>2: -10°C to +55°C<br>3: -20°C to +85°C<br>4: -25°C to +100°C<br>5: -40°C to +70°C<br>6: 0°C to +200°C | 0: No requirements<br>1: >30% to 40%<br>2: >40% to 50%<br>3: >50% to 60%<br>4: >60% to 70%<br>5: >70% to 80%<br>6: >80% to 90%<br>7: >90% | 0: No requirements<br>1: >30% to 40%<br>2: >40% to 50%<br>3: >50% to 60%<br>4: >60% to 70%<br>5: >70% to 80%<br>6: >80% to 90%<br>7: >90% |

| A TYPICAL CLASSIFICATION LOOKS LIKE THIS |   |   |   |   |   |
|------------------------------------------|---|---|---|---|---|
| W                                        | 4 | 3 | 2 | 7 | 6 |

Q-LON consistently delivers the highest levels of performance

|                     |                       |
|---------------------|-----------------------|
| Deflection recovery | Recovery after ageing |
|---------------------|-----------------------|



# PERFORMANCE TABLES

The methodology for the linear compression test, the deflection recovery test and the recovery after ageing test are all described in EN 12365 2003 parts 2, 3 and 4. The Schlegel testing facilities in Aycliffe are accredited by ift Rosenheim.

Q-LON CLASSIFICATION TO EN 12365 2003

|          |   |   |   |   |   |   |
|----------|---|---|---|---|---|---|
| QL 1026  | W | 2 | 6 | 2 | 7 | 6 |
| QL 1032  | W | 3 | 5 | 2 | 7 | 6 |
| QL 3004  | W | 2 | 6 | 2 | 7 | 6 |
| QL 3005  | W | 3 | 5 | 2 | 6 | 6 |
| QL 3006  | W | 6 | 2 | 2 | 7 | 6 |
| QL 3009  | W | 3 | 2 | 2 | 6 | 6 |
| QL 3011  | W | 3 | 5 | 2 | 7 | 6 |
| QL 3012  | W | 4 | 5 | 2 | 7 | 6 |
| QL 3013  | W | 1 | 5 | 2 | 7 | 6 |
| QL 3020  | W | 4 | 4 | 2 | 6 | 6 |
| QL 3025  | W | 2 | 5 | 2 | 6 | 6 |
| QL 3034  | W | 3 | 6 | 2 | 7 | 6 |
| QL 3037  | W | 3 | 5 | 2 | 6 | 6 |
| QL 3042  | W | 2 | 4 | 2 | 7 | 6 |
| QL 3053  | W | 3 | 5 | 2 | 6 | 6 |
| QL 3054  | W | 3 | 5 | 2 | 7 | 6 |
| QL 3056  | W | 3 | 4 | 2 | 7 | 5 |
| QL 3059  | W | 3 | 3 | 2 | 6 | 5 |
| QL 3061  | W | 3 | 3 | 2 | 6 | 6 |
| QL 3063  | W | 3 | 6 | 2 | 6 | 6 |
| QL 3067  | W | 3 | 5 | 2 | 7 | 6 |
| QL 3068  | W | 3 | 5 | 2 | 7 | 5 |
| QL 3070  | W | 2 | 5 | 2 | 6 | 6 |
| QL 3072  | W | 2 | 4 | 2 | 6 | 5 |
| QL 3073  | W | 4 | 4 | 2 | 7 | 5 |
| QL 3074  | W | 2 | 6 | 2 | 7 | 6 |
| QL 3076  | W | 3 | 4 | 2 | 6 | 6 |
| QL 3078  | W | 3 | 3 | 2 | 6 | 6 |
| QL 3079  | W | 2 | 4 | 2 | 6 | 6 |
| QL 3082  | W | 3 | 5 | 2 | 7 | 5 |
| QL 3091  | W | 4 | 4 | 2 | 6 | 5 |
| QL 3093  | W | 4 | 4 | 2 | 6 | 6 |
| QL 3094  | W | 3 | 2 | 2 | 6 | 5 |
| QL 3095  | W | 3 | 2 | 2 | 7 | 5 |
| QL 3096  | W | 3 | 3 | 2 | 6 | 5 |
| QL 3097  | W | 3 | 5 | 2 | 6 | 6 |
| QL 3098  | W | 3 | 3 | 2 | 6 | 6 |
| QL 3099  | W | 3 | 3 | 2 | 6 | 6 |
| QL 3101  | W | 3 | 5 | 2 | 7 | 6 |
| QL 3102  | W | 3 | 3 | 2 | 6 | 6 |
| QL 3104  | W | 4 | 4 | 2 | 7 | 5 |
| QL 3106  | W | 2 | 5 | 2 | 7 | 6 |
| QL 3109  | W | 4 | 3 | 2 | 7 | 6 |
| QL 3110  | W | 2 | 5 | 2 | 6 | 6 |
| QL 3111  | W | 3 | 5 | 2 | 5 | 6 |
| QL 3113  | W | 3 | 5 | 2 | 6 | 6 |
| QL 3116  | W | 3 | 4 | 2 | 6 | 6 |
| QL 3117  | W | 2 | 3 | 2 | 6 | 6 |
| QL 3118  | W | 3 | 1 | 2 | 7 | 6 |
| QL 3121  | W | 3 | 2 | 2 | 6 | 6 |
| QL 3122  | W | 1 | 7 | 2 | 7 | 6 |
| QL 3124  | W | 1 | 6 | 2 | 7 | 6 |
| QL 3126  | W | 1 | 7 | 2 | 7 | 6 |
| QL 3128  | W | 3 | 2 | 2 | 6 | 5 |
| QL 3131  | W | 2 | 5 | 2 | 6 | 6 |
| QL 3138  | W | 2 | 5 | 2 | 7 | 6 |
| QL 3139  | W | 3 | 1 | 2 | 7 | 6 |
| QL 3140  | W | 3 | 5 | 2 | 6 | 6 |
| QL 3141  | W | 3 | 5 | 2 | 5 | 5 |
| QL 3141  | W | 2 | 4 | 2 | 5 | 5 |
| QL 3143  | W | 2 | 6 | 2 | 7 | 5 |
| QL 3147  | W | 3 | 4 | 2 | 6 | 6 |
| QL 3150  | W | 3 | 3 | 2 | 6 | 6 |
| QL 3151  | W | 3 | 3 | 2 | 6 | 6 |
| QL 3152  | W | 3 | 3 | 2 | 6 | 6 |
| QL 4465  | W | 2 | 5 | 2 | 6 | 6 |
| QL 45    | W | 2 | 7 | 2 | 7 | 6 |
| QL 46105 | W | 3 | 6 | 2 | 7 | 6 |
| QL 46800 | W | 2 | 5 | 2 | 6 | 6 |
| QL 48400 | W | 1 | 6 | 2 | 6 | 6 |
| QL 48510 | W | 1 | 5 | 2 | 5 | 6 |
| QL 48650 | W | 2 | 5 | 2 | 5 | 6 |
| QL 4870  | W | 2 | 3 | 2 | 6 | 6 |
| QL 48700 | W | 3 | 3 | 2 | 7 | 6 |
| QL 48750 | W | 2 | 5 | 2 | 6 | 6 |
| QL 48800 | W | 3 | 4 | 2 | 7 | 6 |
| QL 48950 | W | 3 | 4 | 2 | 6 | 6 |
| QL 50    | W | 2 | 5 | 2 | 7 | 6 |
| QL 55    | W | 2 | 5 | 2 | 6 | 6 |
| QL 5570  | W | 2 | 4 | 2 | 6 | 6 |
| QL 5626  | W | 3 | 3 | 2 | 5 | 6 |
| QL 5694  | W | 4 | 3 | 2 | 6 | 6 |
| QL 57700 | W | 2 | 5 | 2 | 6 | 6 |
| QL 5878  | W | 2 | 5 | 2 | 4 | 6 |
| QL 60    | W | 3 | 5 | 2 | 7 | 6 |
| QL 6571  | W | 3 | 5 | 2 | 6 | 6 |
| QL 6750  | W | 3 | 4 | 2 | 6 | 6 |
| QL 69400 | W | 1 | 5 | 2 | 5 | 6 |
| QL 69510 | W | 1 | 5 | 2 | 4 | 6 |
| QL 69650 | W | 1 | 5 | 2 | 6 | 6 |
| QL 69700 | W | 3 | 3 | 2 | 7 | 6 |
| QL 69750 | W | 2 | 4 | 2 | 6 | 6 |
| QL 69800 | W | 3 | 4 | 2 | 6 | 6 |
| QL 6991  | W | 2 | 5 | 2 | 6 | 6 |
| QL 69950 | W | 3 | 4 | 2 | 6 | 6 |
| QL 7000  | W | 5 | 2 | 2 | 6 | 6 |
| QL 70012 | W | 3 | 2 | 2 | 6 | 6 |
| QL 70013 | W | 3 | 2 | 2 | 6 | 6 |
| QL 70014 | W | 3 | 4 | 2 | 7 | 6 |
| QL 7066  | W | 3 | 3 | 2 | 6 | 6 |
| QL 7307  | W | 3 | 5 | 2 | 7 | 6 |
| QL 836   | W | 3 | 3 | 2 | 6 | 6 |
| QL 9005  | W | 2 | 4 | 2 | 6 | 6 |
| QL 9100  | W | 3 | 5 | 2 | 7 | 6 |
| QL 9111  | W | 3 | 4 | 2 | 6 | 6 |
| QL 9112  | W | 3 | 5 | 2 | 7 | 6 |
| QL 9154  | W | 3 | 5 | 2 | 6 | 6 |
| QL 9171  | W | 2 | 5 | 2 | 6 | 6 |
| QL 9257  | W | 3 | 3 | 2 | 7 | 6 |
| QL 9489  | W | 2 | 6 | 2 | 7 | 6 |
| QL 9536  | W | 4 | 3 | 2 | 7 | 6 |
| QL 9596  | W | 2 | 6 | 2 | 7 | 6 |
| QL 9646  | W | 3 | 5 | 2 | 7 | 6 |
| QL 9608  | W | 3 | 3 | 2 | 7 | 6 |
| QL 9613  | W | 3 | 3 | 2 | 7 | 6 |
| QL 9688  | W | 3 | 3 | 2 | 7 | 6 |
| QL 9898  | W | 3 | 5 | 2 | 7 | 6 |
| QL 9926  | W | 3 | 3 | 2 | 7 | 6 |
| QL 9928  | W | 3 | 4 | 2 | 7 | 6 |
| QL 9985  | W | 3 | 5 | 2 | 7 | 6 |



# RANGE OVERVIEW

## UNIVERSAL SURFACE FITTING

| Code    | Dimensions (mm) |        |             |            |
|---------|-----------------|--------|-------------|------------|
|         | Seal            |        | Application |            |
|         | Width           | Height | Rebate      | Seal gap   |
| Taped   |                 |        |             |            |
| QL 1026 | 12.0            | 4.0    | 12.0        | 1.0 - 3.0  |
| QL 1032 | 12.0            | 7.0    | 12.0        | 2.0 - 6.0  |
| QL 3116 | 10.8            | 8.7    | 11.0        | 3.0 - 5.5  |
| QL 3117 | 11.2            | 6.5    | 11.0        | 3.0 - 5.5  |
| QL 3121 | 15.0            | 12.0   | 15.0        | 5.0 - 10.0 |
| QL 3122 | 7.0             | 2.2    | 7.0         | 0.5 - 2.0  |
| QL 3124 | 6.4             | 3.7    | 6.0         | 2.5 - 3.5  |
| QL 3126 | 10.0            | 3.0    | 10.0        | 1.0 - 2.5  |
| QL 9171 | 8.0             | 6.0    | 8.0         | 4.5        |
| Untaped |                 |        |             |            |
| QL 3042 | 11.2            | 6.5    | 11.0        | 3.0 - 5.5  |
| QL 3059 | 10.8            | 8.7    | 11.0        | 3.0 - 5.5  |
| QL 3061 | 15.0            | 12.0   | 15.0        | 5.0 - 10.0 |
| QL 9171 | 8.0             | 6.0    | 8.0         | 4.5        |

## INTERIOR DESIGN (TIMBER DOORS AND FURNITURE)

| Code     | Dimensions (mm) |            |        |           |
|----------|-----------------|------------|--------|-----------|
|          | Groove          |            | Rebate | Seal gap  |
|          | Throat width    | Min. depth |        |           |
| QL 50    | 2.7 - 3.0       | 6.0        | 10.0   | 3.0 - 5.0 |
| QL 55    | 2.7 - 3.0       | 6.0        | 10.0   | 3.0 - 4.5 |
| QL 60    | 2.7 - 3.0       | 6.0        | 10.0   | 3.0 - 4.5 |
| QL 3037  | 2.7 - 3.0       | 6.0        | 10.0   | 3.5 - 5.6 |
| QL 3056  | 2.7 - 3.0       | 6.0        | 9.0    | 4.0 - 7.5 |
| QL 3072  | 2.7 - 3.2       | 6.5        | 10.0   | 2.7 - 4.3 |
| QL 3091  | 4.0 - 5.0       | 7.5        | 15.0   | 4.0 - 8.0 |
| QL 3094  | 2.7 - 3.2       | 6.5        | 10.0   | 4.0 - 6.0 |
| QL 3097  | 4.0 - 5.0       | 7.5        | 18.0   | 3.5 - 6.0 |
| QL 3100  | 3.5 - 4.0       | 6.5        | 12.0   | 4.0 - 7.5 |
| QL 3106  | 3.5 - 4.0       | 6.5        | 12.0   | 3.0 - 5.0 |
| QL 3110  | 3.5 - 4.0       | 6.5        | 12.0   | 3.5 - 4.0 |
| QL 3113  | 3.5 - 4.0       | 7.0        | 12.0   | 4.0 - 7.5 |
| QL 3138  | 2.7 - 3.2       | 6.0        | 8.0    | 3.0 - 4.5 |
| QL 9985  | 2.7 - 3.0       | 6.0        | 10.0   | 3.0 - 6.5 |
| QL 70014 | 4.0             | 7.0        | 8.0    | 4.1 - 7.0 |

## INTERIOR DESIGN (TIMBER DOORS AND FURNITURE)

| Location | Dimensions (mm) |       |            |
|----------|-----------------|-------|------------|
|          | Groove          |       | Seal gap   |
|          | Throat width    | Depth |            |
| QL 3006  | 2.7 - 3.0       | 6.0   | 5.0 - 13.0 |
| QL 3009  | 2.7 - 3.0       | 6.0   | 4.0 - 7.5  |
| QL 3011  | 2.7 - 3.0       | 6.0   | 3.5 - 5.5  |
| QL 3012  | 2.7 - 3.0       | 6.0   | 4.0 - 6.5  |
| QL 3013  | 2.7 - 3.0       | 6.0   | 2.0 - 3.0  |
| QL 3034  | 2.7 - 3.0       | 8.0   | 0.0 - 1.5  |
| QL 3070  | 2.7 - 3.0       | 8.0   | 0.0 - 1.5  |
| QL 3073  | 4.0 - 5.0       | 7.5   | 5.0 - 8.0  |
| QL 3074  | 2.7 - 3.2       | 6.5   | 3.5 - 5.5  |
| QL 3077  | 2.7 - 3.0       | 6.0   | 2.0 - 3.0  |
| QL 3078  | 3.0 - 3.3       | 6.0   | 4.0 - 7.5  |
| QL 3079  | 3.2 - 4.0       | 6.5   | 2.7 - 4.3  |
| QL 3093  | 2.7 - 3.0       | 7.0   | 4.0 - 8.0  |
| QL 3095  | 3.5 - 4.0       | 6.5   | 4.0 - 6.0  |
| QL 3096  | 4.0 - 5.0       | 7.5   | 3.0 - 6.0  |
| QL 3098  | 3.0 - 4.0       | 7.5   | 3.0 - 6.0  |
| QL 3099  | 3.0 - 3.3       | 6.0   | 4.0 - 7.5  |
| QL 3102  | 3.7 - 4.2       | 7.0   | 5.0 - 7.5  |
| QL 3104  | 4.0 - 5.0       | 7.5   | 5.0 - 9.0  |
| QL 3109  | 4.0 - 5.0       | 7.0   | 5.0 - 9.0  |
| QL 3118  | 3.0 - 3.3       | 7.0   | 4.0 - 7.5  |
| QL 3128  | 2.7 - 3.0       | 7.0   | 4.0 - 7.5  |
| QL 3131  | 2.7 - 3.0       | 8.0   | 0.0 - 1.5  |
| QL 3139  | 2.7 - 3.0       | 7.0   | 4.0 - 7.5  |
| QL 5626  | 2.7 - 3.0       | 6.0   | 4.7 - 7.5  |
| QL 5694  | 2.7 - 3.0       | 6.0   | 6.0 - 11.0 |
| QL 7000  | 2.7 - 3.0       | 6.0   | 4.0 - 10.8 |
| QL 7066  | 2.7 - 3.0       | 6.0   | 4.8 - 7.7  |
| QL 9111  | 3.0 - 3.3       | 6.0   | 4.8 - 7.9  |
| QL 9480  | 2.7 - 3.0       | 6.0   | 3.5 - 7.0  |

## TIMBER WINDOWS

|              | Dimensions (mm) |            |        |            |
|--------------|-----------------|------------|--------|------------|
| Code         | Groove          |            | Rebate | Seal gap   |
|              | Throat width    | Min. depth |        |            |
| Centre seal  |                 |            |        |            |
| QL 3053      | 4.0 - 5.0       | 7.5        | 12.0   | 4.5 - 6.0  |
| QL 3063      | 4.0 - 5.0       | 7.5        | 12.0   | 5.5 - 7.5  |
| QL 3067      | 4.0 - 5.0       | 7.5        | 12.0   | 4.0 - 6.0  |
| QL 3068      | 3.4 - 4.2       | 6.5        | 11.0   | 4.5 - 6.5  |
| QL 3072      | 2.7 - 3.2       | 6.5        | 10.0   | 2.7 - 4.3  |
| QL 3076      | 3.0 - 3.5       | 6.0        | 10.0   | 3.0 - 6.0  |
| QL 3079      | 3.2 - 4.0       | 6.5        | 10.0   | 2.7 - 4.3  |
| QL 3101      | 2.7 - 3.2       | 7.0        | 13.0   | 3.5 - 6.0  |
| QL 3111      | 3.5 - 4.0       | 7.0        | 12.0   | 3.5 - 4.0  |
| QL 3140      | 4.0 - 5.0       | 7.5        | 15.0   | 4.0 - 6.5  |
| QL 3141      | 2.7 - 3.2       | 5.5        | 12.0   | 4.0 - 6.5  |
| QL 3147      | 3.0 - 3.5       | 6.0        | 10.0   | 3.0 - 6.0  |
| Overlap seal |                 |            |        |            |
| QL 3034      | 2.7 - 3.0       | 8.0        | 8.5    | 0.0 - 1.5  |
| QL 3054      | 2.8 - 3.2       | 5.5        | 10.0   | 4.0 - 6.0  |
| QL 3070      | 2.7 - 3.0       | 8.0        | 8.0    | 0.0 - 1.5  |
| QL 3097      | 4.0 - 5.0       | 7.5        | 18.0   | 3.5 - 6.0  |
| QL 3131      | 2.7 - 3.0       | 8.0        | 8.0    | 0.0 - 1.5  |
| QL 3141      | 2.7 - 3.2       | 5.5        | 12.0   | 4.0 - 6.5  |
| Frame seal   |                 |            |        |            |
| QL 3004      | 2.7 - 3.0       | 6.0        | 10.5   | 3.0 - 5.0  |
| QL 3005      | 2.7 - 3.0       | 6.0        | 8.0    | 3.4 - 5.4  |
| QL 3006      | 2.7 - 3.0       | 6.0        | 13.0   | 5.0 - 13.0 |
| QL 3009      | 2.7 - 3.0       | 6.0        | 11.0   | 4.0 - 7.5  |
| QL 3011      | 2.7 - 3.0       | 6.0        | 10.0   | 3.5 - 5.5  |
| QL 3012      | 2.7 - 3.0       | 6.0        | 11.0   | 4.0 - 6.5  |
| QL 3013      | 2.7 - 3.0       | 6.0        | 8.0    | 2.0 - 3.0  |
| QL 3025      | 2.7 - 3.0       | 6.0        | 10.5   | 3.0 - 5.0  |
| QL 3037      | 2.7 - 3.0       | 6.0        | 10.0   | 3.5 - 5.6  |
| QL 3056      | 2.7 - 3.0       | 6.0        | 9.0    | 4.0 - 7.5  |
| QL 3074      | 2.7 - 3.2       | 6.5        | 8.5    | 3.5 - 5.5  |
| QL 3077      | 2.7 - 3.0       | 6.0        | 8.0    | 2.0 - 3.0  |
| QL 3078      | 3.0 - 3.3       | 6.0        | 10.5   | 4.0 - 7.5  |
| QL 3082      | 2.7 - 3.2       | 5.0        | 8.0    | 3.0 - 5.0  |
| QL 3099      | 3.0 - 3.3       | 6.0        | 10.5   | 4.0 - 7.5  |
| QL 3118      | 3.0 - 3.3       | 7.0        | 9.0    | 4.0 - 7.5  |
| QL 3128      | 2.7 - 3.0       | 7.0        | 9.0    | 4.0 - 7.5  |
| QL 3139      | 2.7 - 3.0       | 7.0        | 9.0    | 4.0 - 7.5  |
| QL 3143      | 2.7 - 3.0       | 6.0        | 10.5   | 3.0 - 5.0  |
| QL 5878      | 2.7 - 3.0       | 6.0        | 10.0   | 3.2 - 4.9  |
| QL 9985      | 2.7 - 3.0       | 6.0        | 10.0   | 3.0 - 6.5  |

## ALUMINIUM WINDOWS AND DOORS

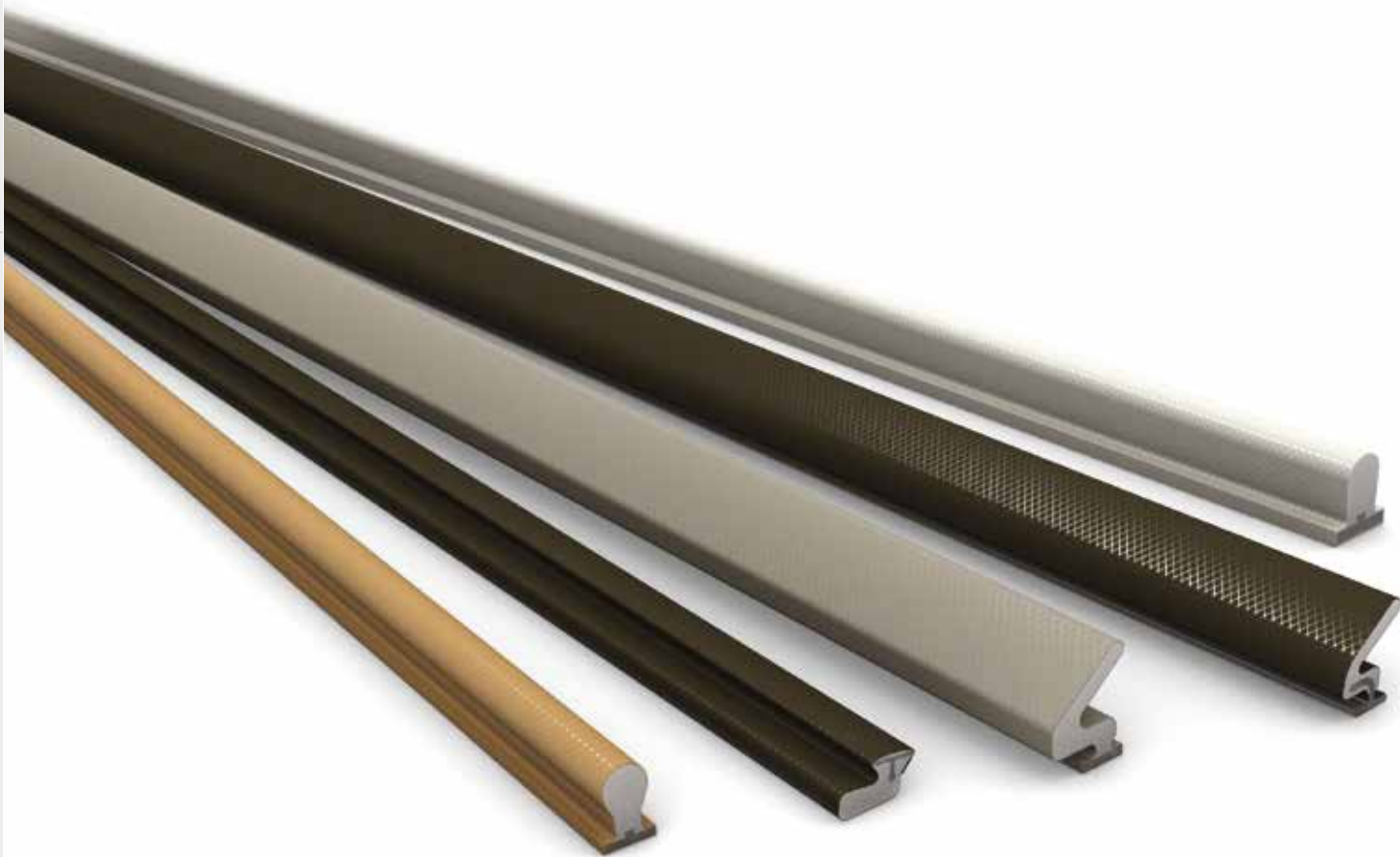
|                 | Dimensions (mm) |       |           |
|-----------------|-----------------|-------|-----------|
|                 | Location        |       | Seal gap  |
| Code            | Throat width    | Depth |           |
| Type A (5.3 mm) |                 |       |           |
| QL 46105        | 3 - 3.2         | 2.3   | 5 - 5.5   |
| QL 46800        | 2.6 - 3.2       | 2.3   | 3 - 3.5   |
| QL 4636         | 3.2             | 2.3   | 1.0 - 2.5 |
| QL 4870         | 3.2             | 2.3   | 2.5 - 4.0 |
| QL 48100        | 3.2             | 2.3   | 5.5 - 7.0 |
| QL 48400        | 3.2             | 2.3   | 0.5 - 2.0 |
| QL 48510        | 3.2             | 2.3   | 1.1 - 2.4 |
| QL 48650        | 3.2             | 2.3   | 1.8 - 3.4 |
| QL 48700        | 3.2             | 2.3   | 2.5 - 6.0 |
| QL 48800        | 3.2             | 2.3   | 2.5 - 7.0 |
| QL 48750        | 3.2             | 2.3   | 2.7 - 4.6 |
| QL 48950        | 3.2             | 2.3   | 4.0 - 6.5 |
| QL 70013        | 3.2             | 5.3   | 4.5 - 8.5 |
| Type B (6.3 mm) |                 |       |           |
| QL 57700        | 3.8             | 2.3   | 2.3 - 4.0 |
| Type C (7.5 mm) |                 |       |           |
| QL 6970         | 4.6             | 2.3   | 2.5 - 4.0 |
| QL 69100        | 4.6             | 2.3   | 5.5 - 7.0 |
| QL 69400        | 4.6             | 2.3   | 0.5 - 1.5 |
| QL 69510        | 4.6             | 2.3   | 1.1 - 2.4 |
| QL 69650        | 4.6             | 2.3   | 1.8 - 3.4 |
| QL 69700        | 4.6             | 2.3   | 2.5 - 6.0 |
| QL 69750        | 4.6             | 2.3   | 2.7 - 4.6 |
| QL 69800        | 4.6             | 2.3   | 2.5 - 7.0 |
| QL 69950        | 4.6             | 2.3   | 4.0 - 6.5 |
| QL 70012        | 4.6             | 7.5   | 4.5 - 8.5 |





PVC-U WINDOWS AND DOORS

| Code    | Dimensions (mm) |           |
|---------|-----------------|-----------|
|         | Location        | Seal gap  |
|         | Throat width    |           |
| QL 4465 | 4.2             | 3.0 - 4.8 |
| QL 5570 | 3.3             | 3.0 - 4.8 |
| QL 6571 | 3.0             | 3.0 - 5.0 |
| QL 6991 | 3.9             | 2.0 - 3.2 |
| QL 7307 | 3.2             | 2.8 - 4.4 |
| QL 9005 | 2.4             | 2.5 - 4.1 |
| QL 9100 | 2.4             | 2.7 - 4.4 |
| QL 9112 | 3.2             | 3.0 - 4.9 |
| QL 9154 | 3.2             | 2.8 - 4.5 |
| QL 9257 | 3.2             | 4.5 - 7.1 |
| QL 9489 | 3.4             | 2.5 - 4.0 |
| QL 9536 | 3.9             | 4.0 - 8.0 |
| QL 9596 | 3.4             | 2.5 - 4.0 |
| QL 9646 | 3.6             | 3.5 - 5.5 |
| QL 9688 | 2.8             | 3.0 - 7.0 |
| QL 9898 | 3.2             | 3.0 - 5.5 |
| QL 9926 | 3.2 - 3.4       | 3.0 - 7.5 |
| QL 9928 | 3.2 - 3.4       | 3.0 - 7.5 |



# CERTIFICATIONS CRADLE TO CRADLE

The construction industry is just one of many sectors that are adapting to meet the need for **more sustainable production processes** and more efficient use of resources.

The current transition towards a circular economy is driving **Schlegel** towards the use of materials and products free from chemicals

In 2020 Schlegel joined the certification programme led by the Cradle to Cradle Products Innovation Institute. This innovative initiative promotes sustainability by driving the transformation towards the design and production of products with a positive impact.

The Cradle to Cradle Certified® Products Programme is a multi-attribute, continuous improvement methodology that evaluates products across five categories of human and environmental health.

It evaluates products across five categories of human and environmental health. Each product is assigned a level for each category.

The standard encourages continuous improvement over time by awarding certification based on ascending levels of achievement.

Cradle to Cradle Certified® is recognised as a preferred product certification by many leading brands, organisations and sustainability standards. For Schlegel this is only the first step towards more ambitious goals.



Find out more about the **Cradle to Cradle®** certification system

that harm people and the environment, without however reducing our high quality standards.

Sustainability certifications also hold important value in the market, especially since some countries have imposed mandatory environmental certification for specific products.



## MATERIAL HEALTH

Products are designed and developed through a process of inventorying, assessing and optimising chemical materials.

## CIRCULAR ECONOMY

No more waste: products remain in a perpetual cycle of use and reuse.

## RENEWABLE ENERGY & CARBON MANAGEMENT

Products are manufactured using renewable energy.

## WATER STEWARDSHIP

Since water is a valuable resource, watersheds are protected, leaving clean water available to people and all other organisms.

## SOCIAL FAIRNESS

Business operations have to take into account all people and natural systems affected by a product manufacturing cycle.

TRUSTED CERTIFICATIONS

EN 12365

Performance requirement and classification of gaskets for fenestration. Aiding in seal selection

COMPRESSION SET TESTING

Based on EN 12365-4 Recovery after ageing at maximum working temperature. For improved sealing life

UV RESISTANCE

Accelerated weather test acc. to DIN EN ISO 4892-2 - Surface liner. Tests at: 2 GJ/m², 4 GJ/m² (6 GJ/m², 8 GJ/m²) for improved longevity

THERMAL CONDUCTIVITY

Tested to EN 12667:2001 ;D = 0.041 W/(m • K). Low thermal transmittance supports improved window classification.

KOMO

KOMO is the premier quality mark for the building and infrastructure sector in the Netherlands

FIRE RETARDANT VERSION

Tested according EN 13501-1 Class E. For Fire Rated doors.

EXTREME WEATHER RESISTANCE (RUSSIAN STANDARD)

TU5775-001-4900-1519-07.

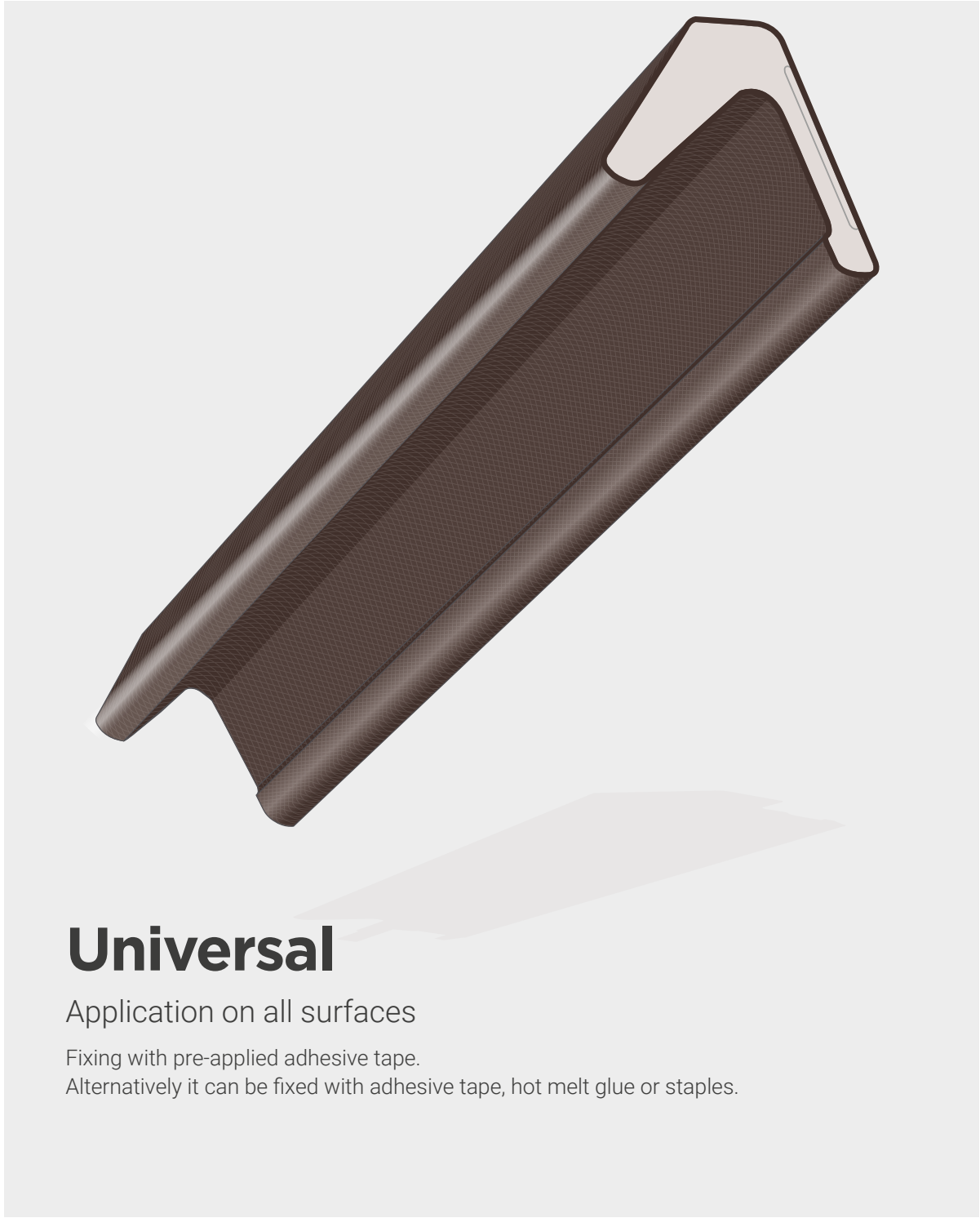
Testing various properties and performance of seals at extreme climatic conditions - eg-60C



| Code     | Certification |      |     |        |                  |
|----------|---------------|------|-----|--------|------------------|
|          | EN 12365      | KOMO | SKZ | Sintef | Cradle to Cradle |
| QL 3104  | x             | x    |     | x      | x                |
| QL 3106  | x             | x    |     |        | x                |
| QL 3109  | x             | x    |     |        | x                |
| QL 3110  | x             |      |     |        | x                |
| QL 3111  | x             | x    |     |        | x                |
| QL 3113  |               | x    |     |        | x                |
| QL 3116  | x             | x    |     |        | x                |
| QL 3117  | x             | x    |     |        | x                |
| QL 3118  | x             | x    |     | x      | x                |
| QL 3121  | x             | x    |     |        | x                |
| QL 3122  | x             | x    |     |        | x                |
| QL 3124  | x             | x    |     |        | x                |
| QL 3126  | x             | x    |     |        | x                |
| QL 3128  | x             | x    |     | x      | x                |
| QL 3131  | x             | x    |     |        | x                |
| QL 3138  | x             |      |     |        | x                |
| QL 3139  | x             | x    |     |        | x                |
| QL 3140  | x             | x    |     |        | x                |
| QL 3141  | x             | x    |     |        | x                |
| QL 3143  | x             | x    |     | x      | x                |
| QL 3147  | x             | x    |     | x      | x                |
| QL 3150  | x             | x    |     |        |                  |
| QL 3151  | x             | x    |     |        | x                |
| QL 3152  | x             |      |     |        |                  |
| QL 4465  | x             | x    | x¹  |        | x                |
| QL 45    | x             | x    | x¹  |        |                  |
| QL 46105 | x             |      | x¹  |        | x                |
| QL 46800 | x             |      | x¹  |        | x                |
| QL 48400 | x             | x    | x¹  |        | x                |
| QL 48510 | x             | x    | x¹  |        | x                |
| QL 48650 | x             | x    | x¹  |        | x                |
| QL 4870  | x             | x    | x¹  |        | x                |
| QL 48700 | x             | x    | x¹  |        | x                |
| QL 48750 | x             | x    | x¹  |        | x                |
| QL 48800 | x             | x    | x¹  |        | x                |
| QL 48950 | x             | x    | x¹  |        | x                |
| QL 50    | x             | x    |     |        | x                |
| QL 55    | x             | x    |     |        | x                |
| QL 5570  | x             | x    | x¹  | x      | x                |
| QL 5626  | x             | x    |     |        |                  |
| QL 5694  | x             | x    |     |        | x                |

| Code     | Certification |      |     |        |                  |
|----------|---------------|------|-----|--------|------------------|
|          | EN 12365      | KOMO | SKZ | Sintef | Cradle to Cradle |
| QL 57700 | x             | x    | x¹  |        | x                |
| QL 5878  | x             | x    | x¹  |        | x                |
| QL 60    | x             | x    |     |        | x                |
| QL 6571  | x             | x    | x¹  |        | x                |
| QL 69400 | x             | x    | x¹  |        | x                |
| QL 69510 | x             | x    | x¹  |        | x                |
| QL 69650 | x             | x    | x¹  |        | x                |
| QL 69700 | x             | x    | x¹  |        | x                |
| QL 69750 | x             | x    | x¹  |        | x                |
| QL 69800 | x             | x    | x¹  |        | x                |
| QL 6991  | x             | x    | x¹  |        | x                |
| QL 69950 | x             | x    | x¹  |        | x                |
| QL 7000  | x             | x    |     |        | x                |
| QL 70012 | x             |      |     |        |                  |
| QL 70013 | x             |      |     |        |                  |
| QL 70014 | x             |      |     |        |                  |
| QL 7066  | x             | x    | x¹  |        | x                |
| QL 7307  | x             | x    | x¹  |        | x                |
| QL 836   | x             | x    | x¹  |        | x                |
| QL 9005  | x             | x    | x¹  |        | x                |
| QL 9100  | x             | x    | x¹  |        | x                |
| QL 9111  | x             | x    |     |        | x                |
| QL 9112  | x             | x    | x¹  |        | x                |
| QL 9154  | x             | x    | x¹  |        | x                |
| QL 9171  | x             |      |     |        |                  |
| QL 9257  | x             | x    | x¹  |        | x                |
| QL 9480  |               |      |     |        |                  |
| QL 9489  | x             | x    |     | x      | x                |
| QL 9536  | x             | x    | x¹  |        |                  |
| QL 9596  | x             | x    | x¹  |        |                  |
| QL 9646  | x             | x    | x¹  | x      | x                |
| QL 9608  | x             | x    | x¹  |        |                  |
| QL 9613  | x             | x    | x¹  |        |                  |
| QL 9688  | x             | x    | x¹  |        | x                |
| QL 9898  | x             | x    | x¹  |        | x                |
| QL 9926  | x             | x    | x¹  |        | x                |
| QL 9928  | x             | x    | x¹  |        | x                |
| QL 9985  | x             | x    |     |        | x                |

¹Q-LON seal material was SKZ tested on the suitability for plastic windows in the colours white, silver grey and black



# Universal

Application on all surfaces

Fixing with pre-applied adhesive tape.  
Alternatively it can be fixed with adhesive tape, hot melt glue or staples.

|                                                                                                        |       |
|--------------------------------------------------------------------------------------------------------|-------|
| QL 1026                                                                                                | 2Q000 |
| Width: 12.0<br>Height: 4.0<br>Rebate: 12.0<br>Seal gap: 1.0 - 3.0<br>Pack size: 250 m x 2<br>500 m x 2 |       |
| Universal with adhesive                                                                                |       |
| W26276                                                                                                 |       |
| Cradle to Cradle Certified® Bronze                                                                     |       |

|                                                                                                        |       |
|--------------------------------------------------------------------------------------------------------|-------|
| QL 1032                                                                                                | 2Q007 |
| Width: 12.0<br>Height: 7.0<br>Rebate: 12.0<br>Seal gap: 2.0 - 6.0<br>Pack size: 250 m x 2<br>500 m x 2 |       |
| Universal with adhesive                                                                                |       |
| W35276                                                                                                 |       |
| Cradle to Cradle Certified® Bronze                                                                     |       |

|                                                                                             |       |  |
|---------------------------------------------------------------------------------------------|-------|--|
| QL 3042                                                                                     | 2Q098 |  |
| Width: 11.2<br>Height: 6.5<br>Rebate: 11.0<br>Seal gap: 3.0 - 5.5<br>Pack size: 400 m x 2   |       |  |
| Universal without adhesive                                                                  |       |  |
| W24276                                                                                      |       |  |
| Cradle to Cradle Certified® Bronze                                                          |       |  |
| QL 3059                                                                                     | 2Q119 |  |
| Width: 10.8<br>Height: 8.7<br>Rebate: 11.0<br>Seal gap: 3.0 - 5.5<br>Pack size: 300 m x 2   |       |  |
| Universal without adhesive                                                                  |       |  |
| W33266                                                                                      |       |  |
| Cradle to Cradle Certified® Bronze                                                          |       |  |
| QL 3061                                                                                     | 2Q140 |  |
| Width: 15.0<br>Height: 12.0<br>Rebate: 15.0<br>Seal gap: 5.0 - 10.0<br>Pack size: 250 m x 2 |       |  |
| Universal without adhesive                                                                  |       |  |
| W33266                                                                                      |       |  |
| Cradle to Cradle Certified® Bronze                                                          |       |  |
| QL 3116                                                                                     | 2Q357 |  |
| Width: 10.8<br>Height: 8.7<br>Rebate: 11.0<br>Seal gap: 3.0 - 5.5<br>Pack size: 300 m x 2   |       |  |
| Universal with adhesive                                                                     |       |  |
| W34266                                                                                      |       |  |
| Cradle to Cradle Certified® Bronze                                                          |       |  |
| QL 3117                                                                                     | 2Q364 |  |
| Width: 11.2<br>Height: 6.5<br>Rebate: 11.0<br>Seal gap: 3.0 - 5.5<br>Pack size: 400 m x 2   |       |  |
| Universal with adhesive                                                                     |       |  |
| W23266                                                                                      |       |  |
| Cradle to Cradle Certified® Bronze                                                          |       |  |
| QL 3121                                                                                     | 2Q385 |  |
| Width: 15.0<br>Height: 11.0<br>Rebate: 15.0<br>Seal gap: 5.0 - 10.0<br>Pack size: 225 m x 2 |       |  |
| Universal with adhesive                                                                     |       |  |
| W32266                                                                                      |       |  |
| Cradle to Cradle Certified® Bronze                                                          |       |  |

|                                                                                             |       |  |
|---------------------------------------------------------------------------------------------|-------|--|
| QL 3121 FR                                                                                  | 2Q386 |  |
| Fire retardant                                                                              |       |  |
| Width: 15.0<br>Height: 11.0<br>Rebate: 15.0<br>Seal gap: 5.0 - 10.0<br>Pack size: 225 m x 2 |       |  |
| Universal with adhesive                                                                     |       |  |
| W32266                                                                                      |       |  |
| QL 3122                                                                                     | 2Q231 |  |
| Width: 7.0<br>Height: 2.2<br>Rebate: 7.0<br>Seal gap: 0.5 - 2.0<br>Pack size: 200 m x 2     |       |  |
| Universal with adhesive                                                                     |       |  |
| W17276                                                                                      |       |  |
| Cradle to Cradle Certified® Bronze                                                          |       |  |
| QL 3124                                                                                     | 2Q406 |  |
| Width: 6.4<br>Height: 3.7<br>Rebate: 6.0<br>Seal gap: 2.5 - 3.5<br>Pack size: 1000 m x 2    |       |  |
| Universal with adhesive                                                                     |       |  |
| W16276                                                                                      |       |  |
| Cradle to Cradle Certified® Bronze                                                          |       |  |
| QL 3126                                                                                     | 2Q413 |  |
| Width: 10.0<br>Height: 3.0<br>Rebate: 10.0<br>Seal gap: 1.0 - 2.5<br>Pack size: 700 m x 2   |       |  |
| Universal with adhesive                                                                     |       |  |
| W17276                                                                                      |       |  |
| Cradle to Cradle Certified® Bronze                                                          |       |  |
| QL 9171                                                                                     | 2Q840 |  |
| Width: 8.0<br>Height: 6.0<br>Rebate: 8.0<br>Seal gap: 2.5 - 5.0<br>Pack size: 500 m x 2     |       |  |
| Universal with and without adhesive                                                         |       |  |
| W25266                                                                                      |       |  |







|                                                                                                  |       |
|--------------------------------------------------------------------------------------------------|-------|
| QL 3034                                                                                          | 2Q084 |
| Groove width: 3.0 - 3.2<br>Min. groove depth: 8.0<br>Seal gap: 0.0 - 1.5<br>Pack size: 400 m x 2 |       |
|                                                                                                  |       |
| Doors                                                                                            |       |
| W36276                                                                                           |       |
| Cradle to Cradle Certified® Bronze                                                               |       |

|                                                                                                                  |       |
|------------------------------------------------------------------------------------------------------------------|-------|
| QL 3037                                                                                                          | 2Q091 |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 2.7<br>Rebate: 13.0<br>Seal gap: 3.5 - 7.5<br>Pack size: 125 m x 2 |       |
|                                                                                                                  |       |
| Doors                                                                                                            |       |
| W44266                                                                                                           |       |
| Cradle to Cradle Certified® Bronze                                                                               |       |

|                                                                                                                 |       |
|-----------------------------------------------------------------------------------------------------------------|-------|
| QL 3056                                                                                                         | 2Q056 |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 6.0<br>Rebate: 9.0<br>Seal gap: 4.0 - 7.5<br>Pack size: 300 m x 2 |       |
|                                                                                                                 |       |
| Doors                                                                                                           |       |
| W34275                                                                                                          |       |
| Cradle to Cradle Certified® Bronze                                                                              |       |

|                                                                                                  |       |
|--------------------------------------------------------------------------------------------------|-------|
| QL 3070                                                                                          | 2Q175 |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 8.0<br>Seal gap: 0.0 - 1.5<br>Pack size: 400 m x 2 |       |
|                                                                                                  |       |
| Doors                                                                                            |       |
| W25266                                                                                           |       |
| Cradle to Cradle Certified® Bronze                                                               |       |

|                                                                                                                  |       |
|------------------------------------------------------------------------------------------------------------------|-------|
| QL 3072                                                                                                          | 2Q182 |
| Groove width: 2.7 - 3.2<br>Min. groove depth: 6.5<br>Rebate: 10.0<br>Seal gap: 2.7 - 4.3<br>Pack size: 300 m x 2 |       |
|                                                                                                                  |       |
| Doors                                                                                                            |       |
| W24265                                                                                                           |       |
| Cradle to Cradle Certified® Bronze                                                                               |       |

|                                                                                                                  |       |
|------------------------------------------------------------------------------------------------------------------|-------|
| QL 3073                                                                                                          | 2Q189 |
| Groove width: 4.0 - 5.0<br>Min. groove depth: 7.5<br>Rebate: 13.0<br>Seal gap: 5.0 - 8.0<br>Pack size: 150 m x 2 |       |
|                                                                                                                  |       |
| Doors                                                                                                            |       |
| W344275                                                                                                          |       |
| Cradle to Cradle Certified® Bronze                                                                               |       |

|                                                                                                                               |       |
|-------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3091                                                                                                                       | 2Q231 |
| Groove width: 4.0 - 5.0<br>Min. groove depth: 7.5<br>Rebate: 15.0<br>Seal gap: 4.0 - 8.0<br>Pack size: 150 m x 2<br>400 m x 1 |       |
|                                                                                                                               |       |
| Doors                                                                                                                         |       |
| W44265                                                                                                                        |       |
| Cradle to Cradle Certified® Bronze                                                                                            |       |

|                                                                                                                                      |       |
|--------------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3091 FR                                                                                                                           | 2Q233 |
| Fire retardant                                                                                                                       |       |
| Groove width: 4.0 - 5.0<br>Min. groove depth: 7.5<br>Rebate: 15.0<br>Seal gap: 4.0 - 8.0<br>Pack size: 150 m x 2<br>400 m x 10 m x 1 |       |
|                                                                                                                                      |       |
| Doors                                                                                                                                |       |
| W44265                                                                                                                               |       |

|                                                                                                                               |       |
|-------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3093                                                                                                                       | 2Q238 |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 7.0<br>Rebate: 13.0<br>Seal gap: 4.0 - 8.0<br>Pack size: 150 m x 2<br>400 m x 1 |       |
|                                                                                                                               |       |
| Doors                                                                                                                         |       |
| W44266                                                                                                                        |       |
| Cradle to Cradle Certified® Bronze                                                                                            |       |

|                                                                                                                  |       |
|------------------------------------------------------------------------------------------------------------------|-------|
| QL 3094                                                                                                          | 2Q245 |
| Groove width: 2.7 - 3.2<br>Min. groove depth: 6.5<br>Rebate: 10.0<br>Seal gap: 4.0 - 6.0<br>Pack size: 250 m x 2 |       |
|                                                                                                                  |       |
| Doors                                                                                                            |       |
| W32265                                                                                                           |       |
| Cradle to Cradle Certified® Bronze                                                                               |       |

|                                                                                                                  |       |
|------------------------------------------------------------------------------------------------------------------|-------|
| QL 3095                                                                                                          | 2Q252 |
| Groove width: 3.5 - 4.0<br>Min. groove depth: 6.5<br>Rebate: 10.0<br>Seal gap: 4.0 - 6.0<br>Pack size: 250 m x 2 |       |
|                                                                                                                  |       |
| Doors                                                                                                            |       |
| W32275                                                                                                           |       |
| Cradle to Cradle Certified® Bronze                                                                               |       |

|                                                                                                                  |       |
|------------------------------------------------------------------------------------------------------------------|-------|
| QL 3096                                                                                                          | 2Q259 |
| Groove width: 4.0 - 5.0<br>Min. groove depth: 7.5<br>Rebate: 12.0<br>Seal gap: 3.0 - 6.0<br>Pack size: 200 m x 2 |       |
|                                                                                                                  |       |
| Doors                                                                                                            |       |
| W35265                                                                                                           |       |
| Cradle to Cradle Certified® Bronze                                                                               |       |

|                                                                                                                  |       |
|------------------------------------------------------------------------------------------------------------------|-------|
| QL 3097                                                                                                          | 2Q266 |
| Groove width: 4.0 - 5.0<br>Min. groove depth: 7.5<br>Rebate: 18.0<br>Seal gap: 3.5 - 6.0<br>Pack size: 150 m x 2 |       |
|                                                                                                                  |       |
| Doors                                                                                                            |       |
| W35266                                                                                                           |       |
| Cradle to Cradle Certified® Bronze                                                                               |       |

|                                                                                                                  |       |
|------------------------------------------------------------------------------------------------------------------|-------|
| QL 3098                                                                                                          | 2Q273 |
| Groove width: 3.0 - 4.0<br>Min. groove depth: 7.5<br>Rebate: 14.0<br>Seal gap: 3.0 - 6.0<br>Pack size: 150 m x 2 |       |
|                                                                                                                  |       |
| Doors                                                                                                            |       |
| W33266                                                                                                           |       |
| Cradle to Cradle Certified® Bronze                                                                               |       |

|                                                                                                               |       |
|---------------------------------------------------------------------------------------------------------------|-------|
| QL 3099<br>(QL 3078 RV)                                                                                       | 2Q217 |
| Groove width: 3.0 - 3.3<br>Min. groove depth: 6.0<br>Seal gap: 4.0 - 7.5<br>Pack size: 150 m x 2<br>300 m x 2 |       |
|                                                                                                               |       |
| Doors                                                                                                         |       |
| W33266                                                                                                        |       |
| Cradle to Cradle Certified® Bronze                                                                            |       |

|                                                                                                                  |       |
|------------------------------------------------------------------------------------------------------------------|-------|
| QL 3102                                                                                                          | 2Q294 |
| Groove width: 3.7 - 4.2<br>Min. groove depth: 7.0<br>Rebate: 11.0<br>Seal gap: 5.0 - 7.5<br>Pack size: 200 m x 2 |       |
|                                                                                                                  |       |
| Doors                                                                                                            |       |
| W33266                                                                                                           |       |
| Cradle to Cradle Certified® Bronze                                                                               |       |

|                                                                                                                  |       |
|------------------------------------------------------------------------------------------------------------------|-------|
| QL 3104                                                                                                          | 2Q308 |
| Groove width: 4.0 - 5.0<br>Min. groove depth: 7.5<br>Rebate: 12.0<br>Seal gap: 5.0 - 9.0<br>Pack size: 200 m x 2 |       |
|                                                                                                                  |       |
| Doors                                                                                                            |       |
| W44275                                                                                                           |       |
| Cradle to Cradle Certified® Bronze                                                                               |       |

|                                                                                                                  |       |
|------------------------------------------------------------------------------------------------------------------|-------|
| QL 3106                                                                                                          | 2Q152 |
| Groove width: 3.5 - 4.0<br>Min. groove depth: 6.5<br>Rebate: 12.0<br>Seal gap: 3.0 - 5.0<br>Pack size: 250 m x 2 |       |
|                                                                                                                  |       |
| Doors                                                                                                            |       |
| W25276                                                                                                           |       |
| Cradle to Cradle Certified® Bronze                                                                               |       |

|                                                                                                                  |       |
|------------------------------------------------------------------------------------------------------------------|-------|
| QL 3109                                                                                                          | 2Q322 |
| Groove width: 4.0 - 5.0<br>Min. groove depth: 7.0<br>Rebate: 18.0<br>Seal gap: 5.0 - 9.0<br>Pack size: 100 m x 2 |       |
|                                                                                                                  |       |
| Doors                                                                                                            |       |
| W43276                                                                                                           |       |
| Cradle to Cradle Certified® Bronze                                                                               |       |

|                                                                                                                 |       |
|-----------------------------------------------------------------------------------------------------------------|-------|
| QL 3110                                                                                                         | 2Q329 |
| Groove width: 3.5 -4.0<br>Min. groove depth: 6.5<br>Rebate: 12.0<br>Seal gap: 3.5 - 4.0<br>Pack size: 150 m x 2 |       |
|                                                                                                                 |       |
| Doors                                                                                                           |       |
| W25266                                                                                                          |       |
| Cradle to Cradle Certified® Bronze                                                                              |       |



|                                                                                                                                         |       |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3095                                                                                                                                 | 2Q252 |
| <p>Groove width: 3.5 - 4.0</p> <p>Min. groove depth: 6.5</p> <p>Rebate: 10.0</p> <p>Seal gap: 4.0 - 6.0</p> <p>Pack size: 250 m x 2</p> |       |
|                                                                                                                                         |       |
| Doors                                                                                                                                   |       |
| W32275                                                                                                                                  |       |
| Cradle to Cradle Certified® Bronze                                                                                                      |       |

|                                                                                                                                         |       |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3096                                                                                                                                 | 2Q259 |
| <p>Groove width: 4.0 - 5.0</p> <p>Min. groove depth: 7.5</p> <p>Rebate: 12.0</p> <p>Seal gap: 3.0 - 6.0</p> <p>Pack size: 200 m x 2</p> |       |
|                                                                                                                                         |       |
| Doors                                                                                                                                   |       |
| W35265                                                                                                                                  |       |
| Cradle to Cradle Certified® Bronze                                                                                                      |       |

|                                                                                                                                         |       |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3097                                                                                                                                 | 2Q266 |
| <p>Groove width: 4.0 - 5.0</p> <p>Min. groove depth: 7.5</p> <p>Rebate: 18.0</p> <p>Seal gap: 3.5 - 6.0</p> <p>Pack size: 150 m x 2</p> |       |
| Doors                                                                                                                                   | 0     |
| W35266                                                                                                                                  |       |
| Cradle to Cradle Certified® Bronze                                                                                                      |       |

|                                                                                                                                         |       |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3098                                                                                                                                 | 2Q273 |
| <p>Groove width: 3.0 - 4.0</p> <p>Min. groove depth: 7.5</p> <p>Rebate: 14.0</p> <p>Seal gap: 3.0 - 6.0</p> <p>Pack size: 150 m x 2</p> |       |
|                                                                                                                                         |       |
| Doors                                                                                                                                   |       |
| W33266                                                                                                                                  |       |
| Cradle to Cradle Certified® Bronze                                                                                                      |       |

|                                                                                                               |              |
|---------------------------------------------------------------------------------------------------------------|--------------|
| <b>QL 3099</b><br>(QL 3078 RV)                                                                                | <b>2Q217</b> |
| Groove width: 3.0 - 3.3<br>Min. groove depth: 6.0<br>Seal gap: 4.0 - 7.5<br>Pack size: 150 m x 2<br>300 m x 2 |              |
|                                                                                                               |              |
| <b>Doors</b>                                                                                                  |              |
| <b>W33266</b>                                                                                                 |              |
| Cradle to Cradle Certified® Bronze                                                                            |              |

|                                                                                                                                         |       |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3102                                                                                                                                 | 2Q294 |
| <p>Groove width: 3.7 - 4.2</p> <p>Min. groove depth: 7.0</p> <p>Rebate: 11.0</p> <p>Seal gap: 5.0 - 7.5</p> <p>Pack size: 200 m x 2</p> |       |
|                                                                                                                                         |       |
| Doors                                                                                                                                   |       |
| W33266                                                                                                                                  |       |
| Cradle to Cradle Certified® Bronze                                                                                                      |       |

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>QL 3104</p> <p>2Q308</p>                                                                                                             |  |
| <p>Groove width: 4.0 - 5.0</p> <p>Min. groove depth: 7.5</p> <p>Rebate: 12.0</p> <p>Seal gap: 5.0 - 9.0</p> <p>Pack size: 200 m x 2</p> |  |
| <p>Doors</p>                                                                                                                            |  |
| <p>W44275</p>                                                                                                                           |  |
| <p>Cradle to Cradle Certified® Bronze</p>                                                                                               |  |

|                                                                                                                                         |       |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3106                                                                                                                                 | 2Q152 |
| <p>Groove width: 3.5 - 4.0</p> <p>Min. groove depth: 6.5</p> <p>Rebate: 12.0</p> <p>Seal gap: 3.0 - 5.0</p> <p>Pack size: 250 m x 2</p> |       |
| Doors                                                                                                                                   |       |
| W25276                                                                                                                                  |       |
| Cradle to Cradle Certified® Bronze                                                                                                      |       |

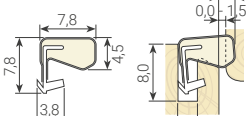
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|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3109                                                                                                                                 | 2Q322 |
| <p>Groove width: 4.0 - 5.0</p> <p>Min. groove depth: 7.0</p> <p>Rebate: 18.0</p> <p>Seal gap: 5.0 - 9.0</p> <p>Pack size: 100 m x 2</p> |       |
|                                                                                                                                         |       |
| Doors                                                                                                                                   |       |
| W43276                                                                                                                                  |       |
| Cradle to Cradle Certified® Bronze                                                                                                      |       |

|                                                                                                                                         |       |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3110                                                                                                                                 | 2Q329 |
| <p>Groove width: 3.5 - 4.0</p> <p>Min. groove depth: 6.5</p> <p>Rebate: 12.0</p> <p>Seal gap: 3.5 - 4.0</p> <p>Pack size: 150 m x 2</p> |       |
|                                                                                                                                         |       |
| Doors                                                                                                                                   |       |
| W25266                                                                                                                                  |       |
| Cradle to Cradle Certified® Bronze                                                                                                      |       |

|                                                                                                                 |       |  |
|-----------------------------------------------------------------------------------------------------------------|-------|--|
| QL 3113                                                                                                         | 2Q343 |  |
| Groove width: 3.5 -4.0<br>Min. groove depth: 7.0<br>Rebate: 12.0<br>Seal gap: 4.0 - 7.5<br>Pack size: 200 m x 2 |       |  |
| Doors                                                                                                           |       |  |
| W35266                                                                                                          |       |  |
| Cradle to Cradle Certified® Bronze                                                                              |       |  |

|                                                                                                                  |       |
|------------------------------------------------------------------------------------------------------------------|-------|
| QL 3113 FR                                                                                                       | 2Q345 |
| Fire retardant                                                                                                   |       |
| Groove width: 3.5 - 4.0<br>Min. groove depth: 7.0<br>Rebate: 12.0<br>Seal gap: 4.0 - 7.5<br>Pack size: 200 m x 2 |       |
|                                                                                                                  |       |
| Doors                                                                                                            |       |
| W35266                                                                                                           |       |

|                                                                                                  |       |  |
|--------------------------------------------------------------------------------------------------|-------|--|
| QL 3128                                                                                          | 2Q420 |  |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 7.0<br>Seal gap: 4.0 - 7.5<br>Pack size: 300 m x 2 |       |  |
| Doors                                                                                            |       |  |
| W32265                                                                                           |       |  |
| Cradle to Cradle Certified® Bronze                                                               |       |  |

|                                                                                                  |                                                                                       |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| QL 3131<br>(QL 3070 RV)                                                                          | <b>2Q427</b>                                                                          |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 8.0<br>Seal gap: 0.0 - 1.5<br>Pack size: 400 m x 2 |  |
| Doors                                                                                            |                                                                                       |
| W25266                                                                                           |                                                                                       |
| Cradle to Cradle Certified® Bronze                                                               |                                                                                       |

|                                                                                                                  |       |  |
|------------------------------------------------------------------------------------------------------------------|-------|--|
| QL 3138                                                                                                          | 2Q462 |  |
| Groove width: 2.7 - 3.2<br>Min. groove depth: 6.0<br>Rebate: 10.0<br>Seal gap: 3.0 - 4.5<br>Pack size: 250 m x 2 |       |  |
| Doors                                                                                                            |       |  |
| W25276                                                                                                           |       |  |
| Cradle to Cradle Certified® Bronze                                                                               |       |  |

|                                                                                                                     |  |
|---------------------------------------------------------------------------------------------------------------------|--|
| <p>QL 3139<br/>(QL 3118 RV)</p> <p><b>2Q469</b></p>                                                                 |  |
| <p>Groove width: 3.0 - 3.3</p> <p>Min. groove depth: 7.0</p> <p>Seal gap: 4.0 - 7.5</p> <p>Pack size: 700 m x 1</p> |  |
| Doors                                                                                                               |  |
| W31276                                                                                                              |  |
| Cradle to Cradle Certified® Bronze                                                                                  |  |

|                                                                                                                                   |       |
|-----------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3150                                                                                                                           | 2Q500 |
| <p>Groove width: 3.0</p> <p>Min. groove depth: 6.5</p> <p>Rebate: 12.0</p> <p>Seal gap: 3.5 - 6.0</p> <p>Pack size: 250 m x 2</p> |       |
| <p>Windows</p>                                                                                                                    |       |
| <p>W33266</p>                                                                                                                     |       |

|                                                                                                                                    |       |
|------------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3152                                                                                                                            | 2Q502 |
| <p>Groove width: 3.0</p> <p>Min. groove depth: 6.5</p> <p>Rebate: 14/15</p> <p>Seal gap: 3.5 - 6.0</p> <p>Pack size: 150 m x 2</p> |       |
|                                                                                                                                    |       |
| Doors                                                                                                                              |       |
| W33266                                                                                                                             |       |

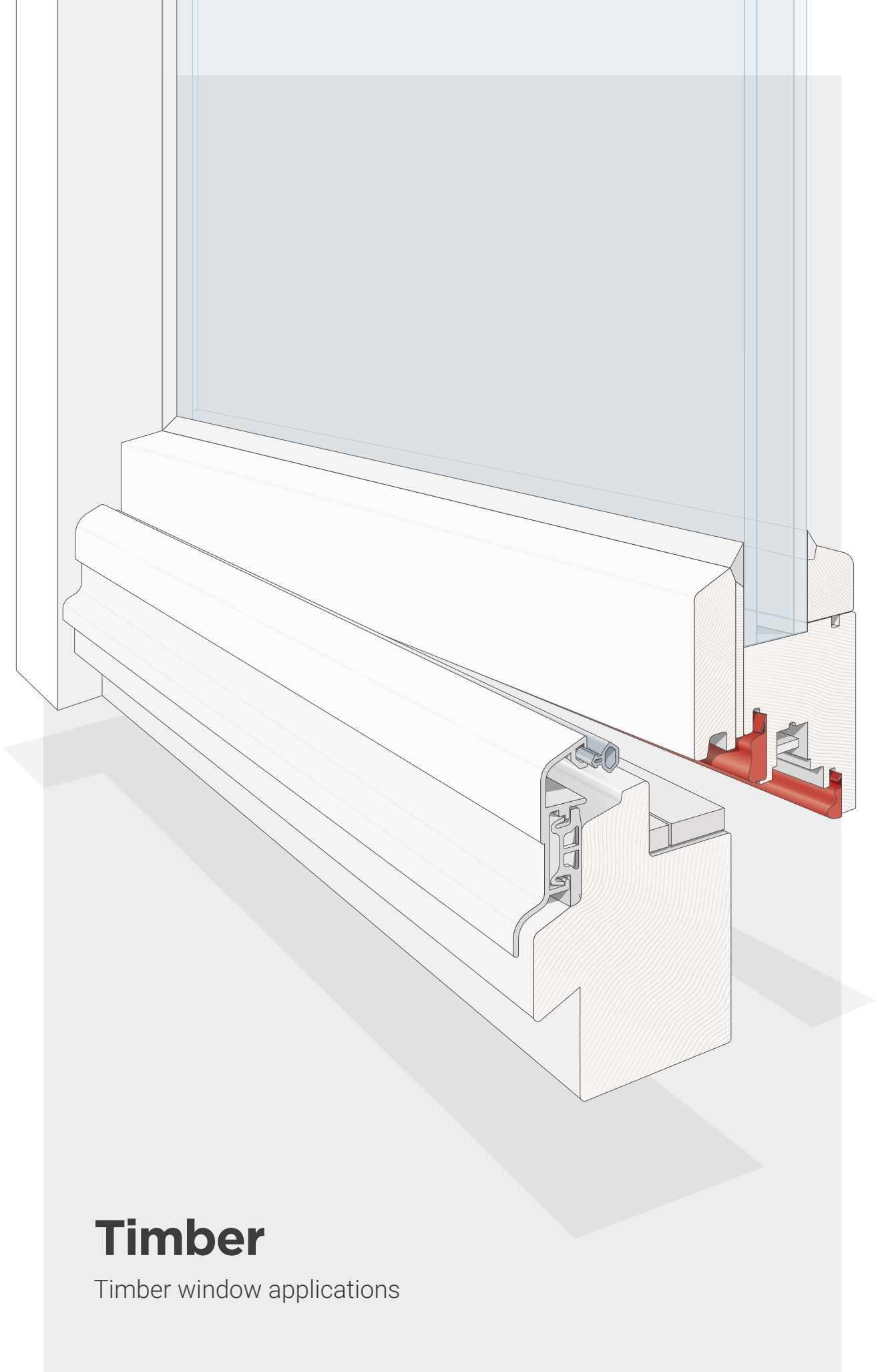
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|--------------------------------------------------------------------------------------------------|-------|--|
| QL 5626                                                                                          | 2Q609 |  |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 6.0<br>Seal gap: 4.7 - 7.5<br>Pack size: 300 m x 2 |       |  |
| Doors                                                                                            |       |  |
| W33256                                                                                           |       |  |

|                                                                                                                      |       |
|----------------------------------------------------------------------------------------------------------------------|-------|
| QL 5694                                                                                                              | 2Q616 |
| <p>Groove width: 2.7 - 3.0</p> <p>Min. groove depth: 6.0</p> <p>Seal gap: 6.0 - 11.0</p> <p>Pack size: 200 m x 2</p> |       |
|                                                                                                                      |       |
| Doors                                                                                                                |       |
| W43266                                                                                                               |       |
| Cradle to Cradle Certified® Bronze                                                                                   |       |



Timber

Timber window applications



|                                                                                                                     |       |  |
|---------------------------------------------------------------------------------------------------------------------|-------|--|
| QL 3004                                                                                                             | 2Q014 |  |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 6.0<br>Rebate: 10.5<br>Seal gap: 3.0 - 5.0<br>Pack size: 350 m x 2    |       |  |
| Windows                                                                                                             | F     |  |
| W26276                                                                                                              |       |  |
| Cradle to Cradle Certified® Bronze                                                                                  |       |  |
| QL 3005                                                                                                             | 2Q021 |  |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 6.0<br>Rebate: 8.0<br>Seal gap: 3.4 - 5.4<br>Pack size: 300 m x 2     |       |  |
| Windows                                                                                                             | F     |  |
| W35266                                                                                                              |       |  |
| Cradle to Cradle Certified® Bronze                                                                                  |       |  |
| QL 3006                                                                                                             | 2Q028 |  |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 6.0<br>Rebate: 13.0<br>Seal gap: 5.0 - 13.0<br>Pack size: 2.1 m x 150 |       |  |
| Windows                                                                                                             | F     |  |
| W62276                                                                                                              |       |  |
| Cradle to Cradle Certified® Bronze                                                                                  |       |  |
| QL 3011                                                                                                             | 2Q042 |  |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 6.0<br>Rebate: 10.0<br>Seal gap: 3.5 - 5.5<br>Pack size: 250 m x 2    |       |  |
| Windows                                                                                                             | F     |  |
| W35276                                                                                                              |       |  |
| Cradle to Cradle Certified® Bronze                                                                                  |       |  |
| QL 3012                                                                                                             | 2Q049 |  |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 6.0<br>Rebate: 11.0<br>Seal gap: 4.0 - 6.5<br>Pack size: 200 m x 2    |       |  |
| Windows                                                                                                             | F     |  |
| W45276                                                                                                              |       |  |
| Cradle to Cradle Certified® Bronze                                                                                  |       |  |

|                                                                                                                  |       |  |
|------------------------------------------------------------------------------------------------------------------|-------|--|
| QL 3013                                                                                                          | 2Q210 |  |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 6.0<br>Rebate: 8.0<br>Seal gap: 2.0 - 3.0<br>Pack size: 500 m x 2  |       |  |
| Windows                                                                                                          | F S   |  |
| W15276                                                                                                           |       |  |
| Cradle to Cradle Certified® Bronze                                                                               |       |  |
| QL 3025<br>(QL 3004 RV)                                                                                          | 2Q014 |  |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 6.0<br>Rebate: 10.5<br>Seal gap: 3.0 - 5.0<br>Pack size: 350 m x 2 |       |  |
| Windows                                                                                                          | F     |  |
| W25266                                                                                                           |       |  |
| Cradle to Cradle Certified® Bronze                                                                               |       |  |
| QL 3034                                                                                                          | 2Q084 |  |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 8.0<br>Rebate: 8.5<br>Seal gap: 0.0 - 1.5<br>Pack size: 400 m x 2  |       |  |
| Windows                                                                                                          | O S   |  |
| W36276                                                                                                           |       |  |
| Cradle to Cradle Certified® Bronze                                                                               |       |  |
| QL 3037                                                                                                          | 2Q091 |  |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 6.0<br>Rebate: 10.0<br>Seal gap: 3.5 - 5.6<br>Pack size: 200 m x 2 |       |  |
| Windows                                                                                                          | F     |  |
| W35266                                                                                                           |       |  |
| Cradle to Cradle Certified® Bronze                                                                               |       |  |
| QL 3053                                                                                                          | 2Q105 |  |
| Groove width: 4.0 - 5.0<br>Min. groove depth: 7.5<br>Rebate: 12.0<br>Seal gap: 4.5 - 6.0<br>Pack size: 200 m x 2 |       |  |
| Windows                                                                                                          | C S   |  |
| W35266                                                                                                           |       |  |
| Cradle to Cradle Certified® Bronze                                                                               |       |  |

F Suitable for Frame Seal

S Suitable for Sash Seal

O Suitable for Overlap Seal

C Suitable for Centre Seal



|                                                                                                                                                             |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3054                                                                                                                                                     | 2Q112 |
| <div>Groove width: 2.8 - 3.2</div> <div>Min. groove depth: 5.5</div> <div>Rebate: 10.0</div> <div>Seal gap: 4.0 - 6.0</div> <div>Pack size: 250 m x 2</div> |       |
| Windows                                                                                                                                                     | O     |
| W35276                                                                                                                                                      |       |
| Cradle to Cradle Certified® Bronze                                                                                                                          |       |

The technical drawing illustrates the dimensions of the QL 3054 profile. The left view is a cross-section showing a total height of 14.5, a top flange width of 7.5, a central cavity width of 10.0, a bottom flange width of 4.0, and a base thickness of 3.7. The right view is a side profile showing a total height of 10.0, a top flange width of 7.6, a central cavity width of 4.0, a bottom flange width of 6.0, a base thickness of 5.5, and a bottom flange width of 2.8 - 3.2.

|                                                                                                                  |       |  |
|------------------------------------------------------------------------------------------------------------------|-------|--|
| QL 3063                                                                                                          | 2Q147 |  |
| Groove width: 4.0 - 5.0<br>Min. groove depth: 7.5<br>Rebate: 12.0<br>Seal gap: 5.5 - 7.5<br>Pack size: 200 m x 2 |       |  |
| Windows                                                                                                          | C S   |  |
| W36266                                                                                                           |       |  |
| Cradle to Cradle Certified® Bronze                                                                               |       |  |

|                                                                                                                  |       |  |
|------------------------------------------------------------------------------------------------------------------|-------|--|
| QL 3063 FR                                                                                                       | 2Q149 |  |
| Fire retardant                                                                                                   |       |  |
| Groove width: 4.0 - 5.0<br>Min. groove depth: 7.5<br>Rebate: 12.0<br>Seal gap: 5.5 - 7.5<br>Pack size: 200 m x 2 |       |  |
| Windows                                                                                                          | C S   |  |
| W36266                                                                                                           |       |  |

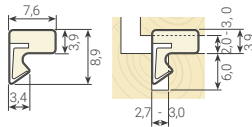
|                                                                                                                                                             |       |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---|
| QL 3067                                                                                                                                                     | 2Q161 |   |
| <div>Groove width: 4.0 - 5.0</div> <div>Min. groove depth: 7.5</div> <div>Rebate: 12.0</div> <div>Seal gap: 4.0 - 6.0</div> <div>Pack size: 200 m x 2</div> |       |   |
| Windows                                                                                                                                                     | C     | S |
| W25266                                                                                                                                                      |       |   |
| Cradle to Cradle Certified® Bronze                                                                                                                          |       |   |

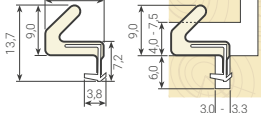
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|------------------------------------------------------------------------------------------------------------------|-------|--|
| QL 3068                                                                                                          | 2Q168 |  |
| Groove width: 3.4 - 4.2<br>Min. groove depth: 6.5<br>Rebate: 11.0<br>Seal gap: 4.5 - 6.5<br>Pack size: 200 m x 2 |       |  |
| Windows                                                                                                          | C S   |  |
| W35275                                                                                                           |       |  |
| Cradle to Cradle Certified® Bronze                                                                               |       |  |

|                                                                                                                  |       |  |
|------------------------------------------------------------------------------------------------------------------|-------|--|
| QL 3072                                                                                                          | 2Q182 |  |
| Groove width: 2.7 - 3.2<br>Min. groove depth: 6.5<br>Rebate: 10.0<br>Seal gap: 2.7 - 4.3<br>Pack size: 300 m x 2 |       |  |
| Windows                                                                                                          | C S   |  |
| W24265                                                                                                           |       |  |
| Cradle to Cradle Certified® Bronze                                                                               |       |  |

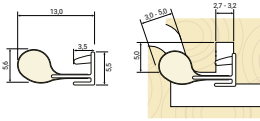
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|-----------------------------------------------------------------------------------------------------------------|-------|--|
| QL 3074                                                                                                         | 2Q196 |  |
| Groove width: 2.7 - 3.2<br>Min. groove depth: 6.5<br>Rebate: 8.5<br>Seal gap: 3.5 - 5.5<br>Pack size: 300 m x 2 |       |  |
| Windows                                                                                                         | F     |  |
| W22276                                                                                                          |       |  |
| Cradle to Cradle Certified® Bronze                                                                              |       |  |

|                                                                                                                                                             |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3076                                                                                                                                                     | 2Q203 |
| <div>Groove width: 3.0 - 3.5</div> <div>Min. groove depth: 6.0</div> <div>Rebate: 10.0</div> <div>Seal gap: 3.0 - 6.0</div> <div>Pack size: 250 m x 2</div> |       |
| Windows                                                                                                                                                     | F     |
| W34266                                                                                                                                                      |       |
| Cradle to Cradle Certified® Bronze                                                                                                                          |       |

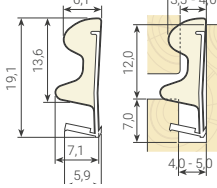
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|-----------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|
| QL 3077<br>(QL 3013 RV)                                                                                         | 2Q210 |  |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 6.0<br>Rebate: 8.0<br>Seal gap: 2.0 - 3.0<br>Pack size: 500 m x 2 |       |                                                                                       |
| Windows                                                                                                         | F S   |                                                                                       |
| W36266                                                                                                          |       |                                                                                       |
| Cradle to Cradle Certified® Bronze                                                                              |       |                                                                                       |

|                                                                                                                               |       |                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|
| QL 3078                                                                                                                       | 2Q217 |  |
| Groove width: 3.0 - 3.3<br>Min. groove depth: 6.0<br>Rebate: 10.5<br>Seal gap: 4.0 - 7.5<br>Pack size: 250 m x 2<br>300 m x 2 |       |                                                                                       |
| Windows                                                                                                                       | F     |                                                                                       |
| W34266                                                                                                                        |       |                                                                                       |
| Cradle to Cradle Certified® Bronze                                                                                            |       |                                                                                       |

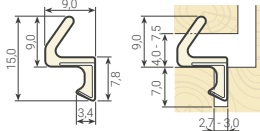
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|------------------------------------------------------------------------------------------------------------------|-------|--|
| QL 3079                                                                                                          | 2Q224 |  |
| Groove width: 3.2 - 4.0<br>Min. groove depth: 6.5<br>Rebate: 10.0<br>Seal gap: 2.7 - 4.3<br>Pack size: 300 m x 2 |       |  |
| Windows                                                                                                          | F S   |  |
| W24266                                                                                                           |       |  |
| Cradle to Cradle Certified® Bronze                                                                               |       |  |

|                                                                                                                 |       |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|
| QL 3082                                                                                                         | 2Q308 |  |
| Groove width: 2.7 - 3.2<br>Min. groove depth: 5.0<br>Rebate: 8.0<br>Seal gap: 3.0 - 5.0<br>Pack size: 250 m x 2 |       |                                                                                     |
| Windows                                                                                                         | F     |                                                                                     |
| W35275                                                                                                          |       |                                                                                     |
| Cradle to Cradle Certified® Bronze                                                                              |       |                                                                                     |

|                                                                                                                                         |       |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| QL 3101                                                                                                                                 | 2Q021 |
| <p>Groove width: 2.7 - 3.2</p> <p>Min. groove depth: 7.0</p> <p>Rebate: 13.0</p> <p>Seal gap: 3.5 - 6.0</p> <p>Pack size: 200 m x 2</p> |       |
| Windows                                                                                                                                 | C     |
| W35276                                                                                                                                  |       |
| Cradle to Cradle Certified® Bronze                                                                                                      |       |

|                                                                                                                  |       |                                                                                       |
|------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|
| QL 3111                                                                                                          | 2Q336 |  |
| Groove width: 3.5 - 4.0<br>Min. groove depth: 7.0<br>Rebate: 12.0<br>Seal gap: 3.5 - 4.0<br>Pack size: 200 m x 2 |       |                                                                                       |
| Windows                                                                                                          | C S   |                                                                                       |
| W35256                                                                                                           |       |                                                                                       |
|                                                                                                                  |       |                                                                                       |

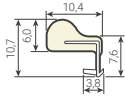
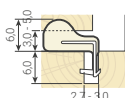
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|------------------------------------|-------|--|
| Cradle to Cradle Certified® Bronze |       |  |
| QL 3118                            | 2Q371 |  |
| Groove width: 3.0 - 3.3            |       |  |
| Min. groove depth: 7.0             |       |  |
| Rebate: 9.0                        |       |  |
| Seal gap: 4.0 - 7.5                |       |  |
| Pack size: 300 m x 2               |       |  |
| Windows                            | F     |  |
| W31276                             |       |  |

|                                                                                                                 |       |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|
| QL 3128                                                                                                         | 2Q420 |  |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 7.0<br>Rebate: 9.0<br>Seal gap: 4.0 - 7.5<br>Pack size: 300 m x 2 |       |                                                                                     |
| Windows                                                                                                         | F     |                                                                                     |
| W32265                                                                                                          |       |                                                                                     |
| Cradle to Cradle Certified® Bronze                                                                              |       |                                                                                     |

|                                                                                                                 |       |  |
|-----------------------------------------------------------------------------------------------------------------|-------|--|
| QL 3131<br>(QL 3070 RV)                                                                                         | 2Q427 |  |
| Groove width: 2.7 - 3.0<br>Min. groove depth: 8.0<br>Rebate: 8.0<br>Seal gap: 0.0 - 1.5<br>Pack size: 400 m x 2 |       |  |
| Windows                                                                                                         | O     |  |
| W25266                                                                                                          |       |  |
| Cradle to Cradle Certified® Bronze                                                                              |       |  |

|                                                                                                                  |       |  |
|------------------------------------------------------------------------------------------------------------------|-------|--|
| QL 3140                                                                                                          | 2Q476 |  |
| Groove width: 4.0 - 5.0<br>Min. groove depth: 7.5<br>Rebate: 15.0<br>Seal gap: 4.0 - 6.5<br>Pack size: 200 m x 2 |       |  |
| Windows                                                                                                          | C     |  |
| W35266                                                                                                           |       |  |
| Cradle to Cradle Certified® Bronze                                                                               |       |  |

|                                                                                                                                         |       |   |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|---|
| Cradle to Cradle Certified® Bronze                                                                                                      |       |   |
| QL 3141                                                                                                                                 | 2Q483 |   |
| <p>Groove width: 2.7 - 3.2</p> <p>Min. groove depth: 5.5</p> <p>Rebate: 12.0</p> <p>Seal gap: 4.0 - 6.5</p> <p>Pack size: 300 m x 2</p> |       |   |
| Windows                                                                                                                                 | C     | O |
| W35255                                                                                                                                  |       |   |

|                                                                                                                                                                                                   |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Cradle to Cradle Certified® Bronze                                                                                                                                                                |       |
| QL 3143                                                                                                                                                                                           | 2Q490 |
| <div>Groove width: 2.7 - 3.0</div> <div>Min. groove depth: 6.0</div> <div>Rebate: 10.5</div> <div>Seal gap: 3.0 - 5.0</div> <div>Pack size: 350 m x 2</div>                                       |       |
| <div></div> <div></div> |       |
| Windows                                                                                                                                                                                           |       |
| W26275                                                                                                                                                                                            |       |
| Cradle to Cradle Certified® Bronze                                                                                                                                                                |       |

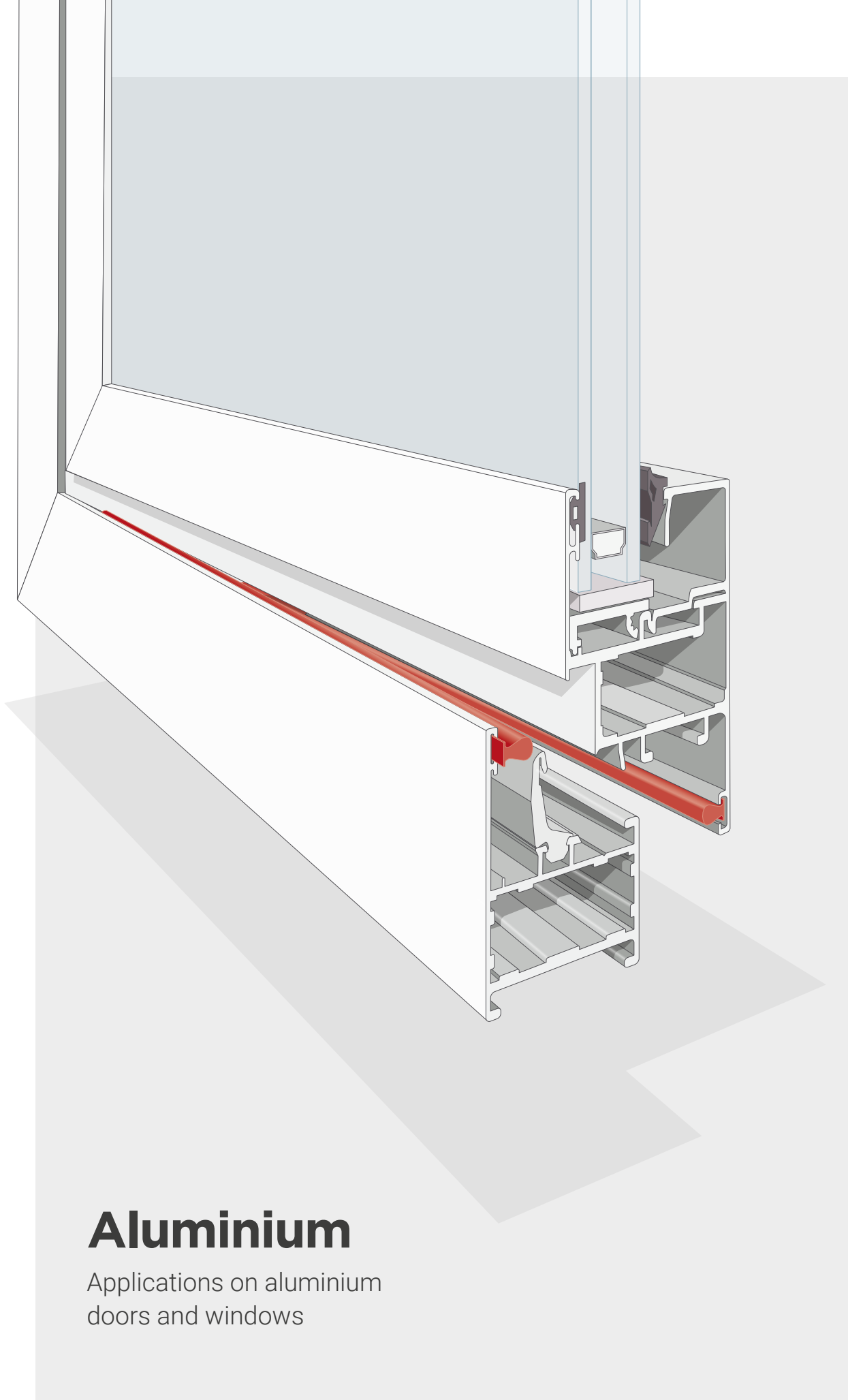
C Suitable for Centre Seal

O Suitable for Overlap Seal

S Suitable for Sash Seal

F Suitable for Frame Seal





# Aluminium

Applications on aluminium doors and windows

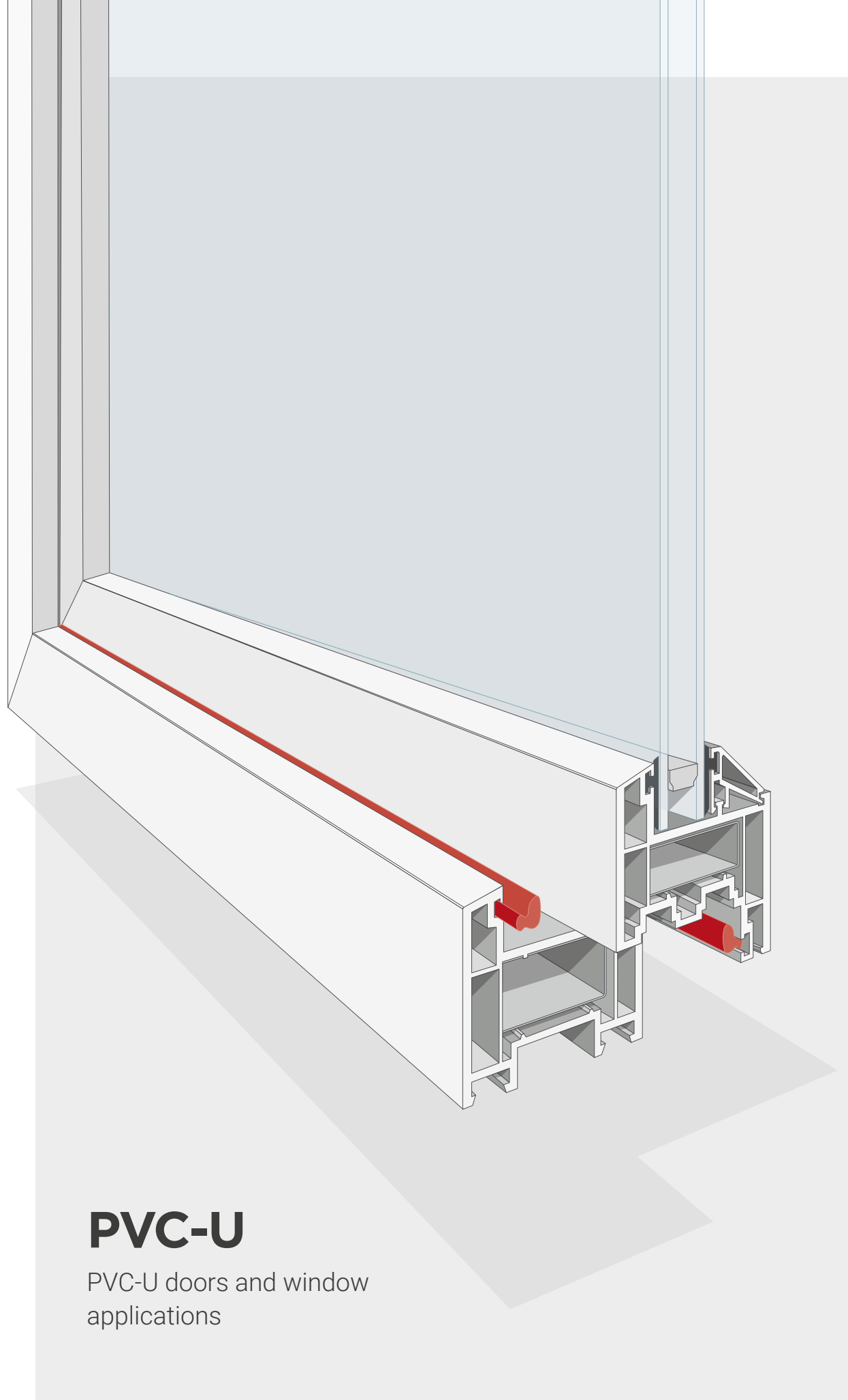
|                                                                                               |       |  |
|-----------------------------------------------------------------------------------------------|-------|--|
| QL 4636                                                                                       | 2Q512 |  |
| Throat width: 3.2<br>Min. groove depth: 2.3<br>Seal gap: 1.0 - 2.5<br>Pack size: 300 m x 2    |       |  |
| Windows / other<br>T-slot type A (5.3)                                                        |       |  |
| Cradle to Cradle Certified® Bronze                                                            |       |  |
| QL 4870                                                                                       | 2Q517 |  |
| Throat width: 3.2<br>Min. groove depth: 2.3<br>Seal gap: 2.5 - 4.0<br>Pack size: 250 m x 2    |       |  |
| Windows / doors / other<br>T-slot type A (5.3)                                                |       |  |
| W23266                                                                                        |       |  |
| Cradle to Cradle Certified® Bronze                                                            |       |  |
| QL 6970                                                                                       | 2Q693 |  |
| Throat width: 4.6<br>Min. groove depth: 2.3<br>Seal gap: 2.5 - 4.0<br>Pack size: 250 m x 2    |       |  |
| Windows / doors / other<br>T-slot type C (7.5)                                                |       |  |
| Cradle to Cradle Certified® Bronze                                                            |       |  |
| QL 46105                                                                                      | 2Q529 |  |
| Throat width: 3 - 3.2<br>Groove width: 5 - 5.6<br>Seal gap: 5 - 5.6<br>Pack size: 250 m x 2   |       |  |
| Overlap seal                                                                                  |       |  |
| W36276                                                                                        |       |  |
| Cradle to Cradle Certified® Bronze                                                            |       |  |
| QL 46800                                                                                      | 2Q577 |  |
| Throat width: 2.6 - 3.2<br>Groove width: 5 - 5.6<br>Seal gap: 3 - 3.5<br>Pack size: 250 m x 2 |       |  |
| Overlap seal                                                                                  |       |  |
| W25266                                                                                        |       |  |
| Cradle to Cradle Certified® Bronze                                                            |       |  |

|                                                                                                                 |       |  |
|-----------------------------------------------------------------------------------------------------------------|-------|--|
| QL 48100                                                                                                        | 2Q516 |  |
| Throat width: 3.2<br>Min. groove depth: 2.3<br>Seal gap: 5.5 - 7.0<br>Pack size: 250 m x 2                      |       |  |
| Windows / doors / other<br>T-slot type A (5.3)                                                                  |       |  |
| Cradle to Cradle Certified® Bronze                                                                              |       |  |
| QL 48400                                                                                                        | 2Q518 |  |
| Throat width: 3.2<br>Groove depth: 2.3<br>Seal gap: 1.1 - 2.4<br>Pack size: 200 m x 2<br>700 m x 2<br>900 m x 2 |       |  |
| Windows / other<br>T-slot type A (5.3)                                                                          |       |  |
| W16266                                                                                                          |       |  |
| Cradle to Cradle Certified® Bronze                                                                              |       |  |
| QL 48510                                                                                                        | 2Q532 |  |
| Throat width: 3.2<br>Groove depth: 2.3<br>Seal gap: 1.1 - 2.4<br>Pack size: 200 m x 2<br>500 m x 2<br>900 m x 2 |       |  |
| Windows / other<br>T-slot type A (5.3)                                                                          |       |  |
| W15256                                                                                                          |       |  |
| Cradle to Cradle Certified® Bronze                                                                              |       |  |
| QL 48650                                                                                                        | 2Q539 |  |
| Throat width: 3.2<br>Groove depth: 2.3<br>Seal gap: 1.8 - 3.4<br>Pack size: 200 m x 2<br>500 m x 2<br>800 m x 2 |       |  |
| Windows / other<br>T-slot type A (5.3)                                                                          |       |  |
| W25256                                                                                                          |       |  |
| Cradle to Cradle Certified® Bronze                                                                              |       |  |
| QL 48650 FR                                                                                                     | 2Q536 |  |
| Fire retardant                                                                                                  |       |  |
| Throat width: 3.2<br>Groove depth: 2.3<br>Seal gap: 1.8 - 3.4<br>Pack size: 500 m x 2                           |       |  |
| Windows / other<br>T-slot type A (5.3)                                                                          |       |  |
| W25256                                                                                                          |       |  |



Technical drawing of a Z-profile. The left part shows a full profile with dimensions: top flange width 8.5, top flange thickness 1.8, web height 8.9, total height 11.6, bottom flange width 6.9, and bottom flange thickness 1.3. The right part shows a cross-section with dimensions: total height A, web thickness C, bottom flange width B, and bottom flange thickness D.

Technical drawing of a Z-profile. The main view shows a profile with dimensions: top flange width 8.5, top flange thickness 1.6, web thickness 1.3, bottom flange width 4.85, web height 8.9, and total height 11.6. Two cross-sections are shown: the left one shows the profile's thickness A, and the right one shows the internal dimensions B, C, and D.



# PVC-U

PVC-U doors and window applications

|                                                                                            |       |  |
|--------------------------------------------------------------------------------------------|-------|--|
| QL 4465                                                                                    | 2Q505 |  |
| Throat width: 4.2<br>Min. groove depth: 5.7<br>Seal gap: 3.0 - 4.8<br>Pack size: 250 m x 2 |       |  |
| Doors / windows                                                                            |       |  |
| W25266                                                                                     |       |  |
| Cradle to Cradle Certified® Bronze                                                         |       |  |

|                                                                                            |       |  |
|--------------------------------------------------------------------------------------------|-------|--|
| QL 4636                                                                                    | 2Q512 |  |
| Throat width: 3.2<br>Min. groove depth: 2.3<br>Seal gap: 1.0 - 2.5<br>Pack size: 300 m x 2 |       |  |
| Windows                                                                                    |       |  |
| T-slot type A (5.3 mm)                                                                     |       |  |
| Cradle to Cradle Certified® Bronze                                                         |       |  |

|                                                                                            |       |  |
|--------------------------------------------------------------------------------------------|-------|--|
| QL 5570                                                                                    | 2Q602 |  |
| Throat width: 3.3<br>Min. groove depth: 5.5<br>Seal gap: 3.0 - 4.8<br>Pack size: 250 m x 2 |       |  |
| Windows                                                                                    |       |  |
| W24266                                                                                     |       |  |
| Cradle to Cradle Certified® Bronze                                                         |       |  |

|                                                                                            |       |  |
|--------------------------------------------------------------------------------------------|-------|--|
| QL 6571                                                                                    | 2Q680 |  |
| Throat width: 3.0<br>Min. groove depth: 4.9<br>Seal gap: 3.0 - 5.0<br>Pack size: 250 m x 2 |       |  |
| Windows                                                                                    |       |  |
| W35266                                                                                     |       |  |
| Cradle to Cradle Certified® Bronze                                                         |       |  |

|                                                                                            |       |  |
|--------------------------------------------------------------------------------------------|-------|--|
| QL 6991                                                                                    | 2Q735 |  |
| Throat width: 3.9<br>Min. groove depth: 5.3<br>Seal gap: 2.0 - 3.2<br>Pack size: 300 m x 2 |       |  |
| Windows                                                                                    |       |  |
| W25266                                                                                     |       |  |
| Cradle to Cradle Certified® Bronze                                                         |       |  |

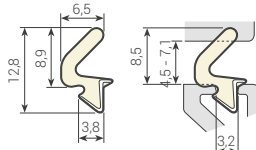
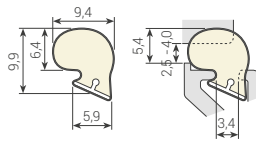
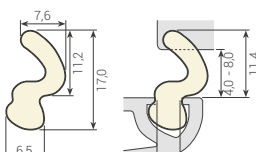
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|--------------------------------------------------------------------------------------------|-------|--|
| QL 7307                                                                                    | 2Q770 |  |
| Throat width: 3.2<br>Min. groove depth: 4.8<br>Seal gap: 2.8 - 4.4<br>Pack size: 250 m x 2 |       |  |
| Windows                                                                                    |       |  |
| W35276                                                                                     |       |  |
| Cradle to Cradle Certified® Bronze                                                         |       |  |

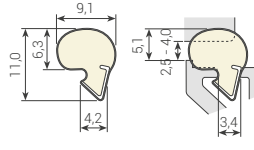
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|--------------------------------------------------------------------------------------------|-------|--|
| QL 9005                                                                                    | 2Q785 |  |
| Throat width: 2.4<br>Min. groove depth: 5.2<br>Seal gap: 2.5 - 4.1<br>Pack size: 300 m x 2 |       |  |
| Windows                                                                                    |       |  |
| W24266                                                                                     |       |  |
| Cradle to Cradle Certified® Bronze                                                         |       |  |

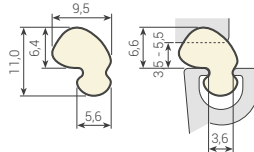
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|--------------------------------------------------------------------------------------------|-------|--|
| QL 9100                                                                                    | 2Q791 |  |
| Throat width: 2.4<br>Min. groove depth: 5.3<br>Seal gap: 2.7 - 4.4<br>Pack size: 250 m x 2 |       |  |
| Windows                                                                                    |       |  |
| W35276                                                                                     |       |  |
| Cradle to Cradle Certified® Bronze                                                         |       |  |

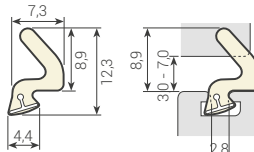
|                                                                                            |       |  |
|--------------------------------------------------------------------------------------------|-------|--|
| QL 9112                                                                                    | 2Q819 |  |
| Throat width: 3.2<br>Min. groove depth: 4.8<br>Seal gap: 3.0 - 4.9<br>Pack size: 300 m x 2 |       |  |
| Windows                                                                                    |       |  |
| W35276                                                                                     |       |  |
| Cradle to Cradle Certified® Bronze                                                         |       |  |

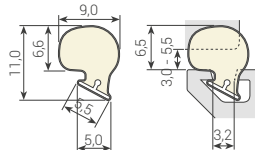
|                                                                                            |       |  |
|--------------------------------------------------------------------------------------------|-------|--|
| QL 9154                                                                                    | 2Q834 |  |
| Throat width: 3.2<br>Min. groove depth: 4.7<br>Seal gap: 2.8 - 4.5<br>Pack size: 300 m x 2 |       |  |
| Windows                                                                                    |       |  |
| W35266                                                                                     |       |  |
| Cradle to Cradle Certified® Bronze                                                         |       |  |

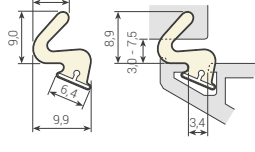
|                                                                                            |       |                                                                                    |
|--------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------|
| QL 9257                                                                                    | 2Q842 |   |
| Throat width: 3.2<br>Min. groove depth: 4.4<br>Seal gap: 4.5 - 7.1<br>Pack size: 300 m x 2 |       |                                                                                    |
| Doors / windows                                                                            |       |                                                                                    |
| W33276                                                                                     |       |                                                                                    |
| Cradle to Cradle Certified® Bronze                                                         |       |                                                                                    |
| QL 9489                                                                                    | 2Q855 |   |
| Throat width: 3.4<br>Min. groove depth: 4.0<br>Seal gap: 2.5 - 4.0<br>Pack size: 250 m x 2 |       |                                                                                    |
| Doors / windows                                                                            |       |                                                                                    |
| W26276                                                                                     |       |                                                                                    |
| Cradle to Cradle Certified® Bronze                                                         |       |                                                                                    |
| QL 9536                                                                                    | 2Q861 |  |
| Throat width: 3.9<br>Min. groove depth: 6.3<br>Seal gap: 4.0 - 8.0<br>Pack size: 250 m x 2 |       |                                                                                    |
| Doors                                                                                      |       |                                                                                    |
| W43276                                                                                     |       |                                                                                    |

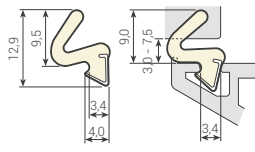
|                                                                                            |       |                                                                                     |
|--------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|
| QL 9596                                                                                    | 2Q873 |  |
| Throat width: 3.4<br>Min. groove depth: 5.2<br>Seal gap: 2.5 - 4.0<br>Pack size: 300 m x 2 |       |                                                                                     |
| Windows                                                                                    |       |                                                                                     |
| W26276                                                                                     |       |                                                                                     |

|                                                                                            |       |                                                                                     |
|--------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|
| QL 9646                                                                                    | 2Q878 |  |
| Throat width: 3.6<br>Min. groove depth: 5.1<br>Seal gap: 3.5 - 5.5<br>Pack size: 250 m x 2 |       |                                                                                     |
| Windows                                                                                    |       |                                                                                     |
| W35276                                                                                     |       |                                                                                     |
| Cradle to Cradle Certified® Bronze                                                         |       |                                                                                     |

|                                                                                            |       |                                                                                      |
|--------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------|
| QL 9688                                                                                    | 2Q882 |  |
| Throat width: 2.8<br>Min. groove depth: 3.9<br>Seal gap: 3.0 - 7.0<br>Pack size: 400 m x 2 |       |                                                                                      |
| Doors / windows                                                                            |       |                                                                                      |
| W33276                                                                                     |       |                                                                                      |
| Cradle to Cradle Certified® Bronze                                                         |       |                                                                                      |

|                                                                                            |       |                                                                                     |
|--------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|
| QL 9898                                                                                    | 2Q911 |  |
| Throat width: 3.2<br>Min. groove depth: 4.9<br>Seal gap: 3.0 - 5.5<br>Pack size: 300 m x 2 |       |                                                                                     |
| Windows                                                                                    |       |                                                                                     |
| W35276                                                                                     |       |                                                                                     |
| Cradle to Cradle Certified® Bronze                                                         |       |                                                                                     |

|                                                                                                  |       |                                                                                     |
|--------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|
| QL 9926                                                                                          | 2Q931 |  |
| Throat width: 3.2 - 3.4<br>Min. groove depth: 5.0<br>Seal gap: 3.0 - 7.5<br>Pack size: 300 m x 2 |       |                                                                                     |
| Doors / windows                                                                                  |       |                                                                                     |
| W33276                                                                                           |       |                                                                                     |
| Cradle to Cradle Certified® Bronze                                                               |       |                                                                                     |

|                                                                                                  |       |                                                                                      |
|--------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------|
| QL 9928                                                                                          | 2Q940 |  |
| Throat width: 3.2 - 3.4<br>Min. groove depth: 3.9<br>Seal gap: 3.0 - 7.5<br>Pack size: 300 m x 2 |       |                                                                                      |
| Doors / windows                                                                                  |       |                                                                                      |
| W34276                                                                                           |       |                                                                                      |
| Cradle to Cradle Certified® Bronze                                                               |       |                                                                                      |



COLOURS APPENDIX

Q-LON: polyurethane foam seals

| Colour           | RAL Code | Schlegel Code |
|------------------|----------|---------------|
| Standard Colours |          |               |
| White            | 9003     | 222           |
| Silver           | 7001     | 212           |
| Brown            | 8019     | 220           |
| Black            | 9005     | 223           |

| Colour        | RAL Code | Schlegel Code |
|---------------|----------|---------------|
| Extra Colours |          |               |
| Beige         | 1001     | 211           |
| Light Oak     | 8003     | 217           |
| Fawn Brown    | 8007     | 218           |
| Pure White    | 9010     | 221           |
| Light Grey    | 7035     | 215           |
| Pebble Grey   | 7032     | 213           |
| Graphite Grey | 7024     | 214           |

Brush pile seals and sealing profiles

| Colour                        | RAL Code | Schlegel Code |
|-------------------------------|----------|---------------|
| Standard Colours Monofilament |          |               |
| Grey                          | 7045     | 277           |
| Black                         | 9005     | 288           |

| Colour                         | RAL Code | Schlegel Code |
|--------------------------------|----------|---------------|
| Standard Colours Multifilament |          |               |
| Grey                           | 7045     | 277           |
| Black                          | 9005     | 288           |
| Extra Colours Multifilament    |          |               |
| Brown                          | 8028     | 264           |
| Beige                          | 1011     | 241           |
| White                          | 9003     | 287           |

Extruded seals

| Colour           | RAL Code | Schlegel Code |
|------------------|----------|---------------|
| Standard Colours |          |               |
| White            | 9003     | 287           |
| Black            | 9005     | 288           |

| Colour        | RAL Code | Schlegel Code |
|---------------|----------|---------------|
| Extra Colours |          |               |
| Grey          | 7040     | 224           |
| Graphite Grey | 7024     | 273           |
| Light Grey    | 7035     | 275           |
| Dust Grey     | 7037     | 276           |
| Grey          | 7045     | 277           |
| Brown         | 8019     | 285           |



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