

Schlegel Weather Seal Range



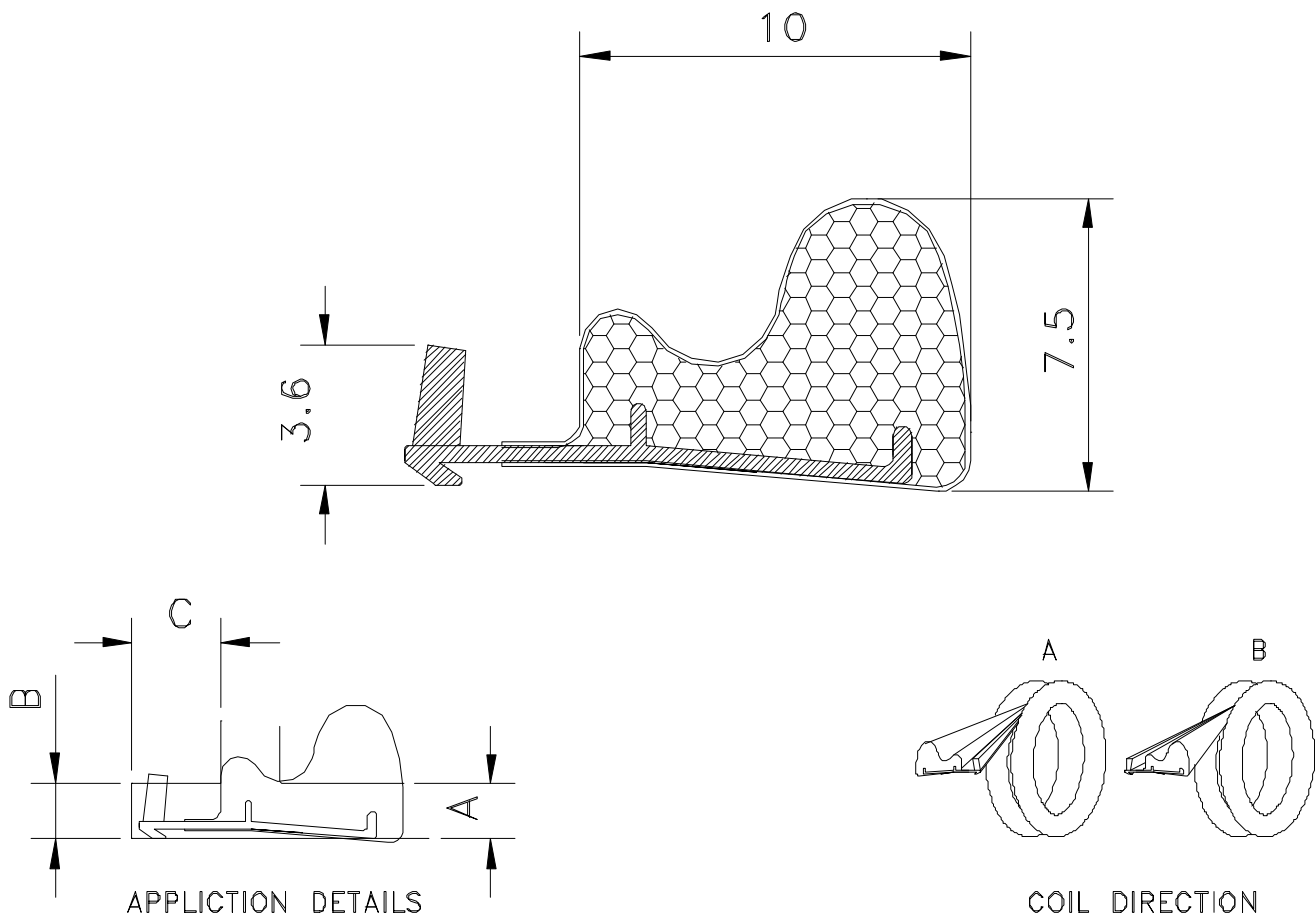
Technical Data Sheet
Product = QLON 3054

Testing undertaken to ISO 9001/2000; BSI Registration FM15052 (since 29/07/1992)

Specification			
Characteristic	Value	Units	Test Method
ACLD (Aged Compression Load Deflection)	6.0 – 12.0 N/100mm	Newtons per 100mm length	In House
Compression Set	>20% set after 24hours (50% compression) @ 70°C	% Recovery mm	In House
Dimensions		mm	In House

[BS EN 12365:2003](#) Part 4 Classification W 3 5 5 6 7 (Please note – ‘recovery after aging’ is not applicable to this assessment)

Drawing Detail



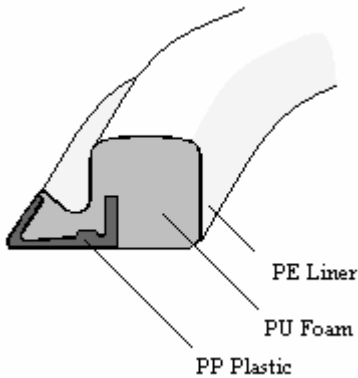
Material / Components

Exterior Liner = Poly-ethylene, low friction, UV stable

Exterior Liner Melt Index = approx. 0,85 g/10 min at 190 °C., 2,16 kg mass – 2.0MI

Hard Foot / insert = Poly-propylene OR Glass fibre roving (part specific) Poly-propylene back / TPE foot for exposed barb products

Foam Core = H/R Poly-Urethane, exhibiting excellent memory performance over wide temp range



Nominal Value of Thermal Conductivity

Low density P.E (used for the outer skin) is advised at 0.33 W/mKelvin

P.U.foam at a density of 70Kg / cubic mtr having a conductivity of 0.05 W/mKelvin

A proposed nominal value for all our seals = 0.06W/mKelvin.

CO-EFFICIENT OF FRICTION OF LINER (QLON SURFACE)

COF of Quality 163.00; film against steel; DIN EN ISO 8295				
	95 µm	140 µm		
Static	0.241	0.146		
Kinetic	0.251	0.157		

Fire Rating

These seals are NOT fire resistant but can be used in conjunction with intumescent strips as 'smokeseals' – Smoke seal application testing is undertaken on the whole door set and as such we are unable to provide information on individual seals

Nominal Values for Sound Reduction Weighting

$R_w(C, C_{tr}) = 32 (-1; -3)$ dB

$R_w(C, C_{tr}) = 22 (-1; -1)$ dB

$R_w(C, C_{tr}) = 16 (-1; 0)$ dB

$R_w(C, C_{tr}) = 29 (0; -2)$ dB

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Packaging Specification

UK Card packing; 2 Coils per box; Nominal ***m / Coil
Coil = 825 OD – 425 ID; Box = 710*710*380mm

GMBH Packaging 2 Coils per box; Nominal 150m / Coil
Coil = 790 OD – 570 ID; Box = 775*775*380mm

When supplied on 'Zero-Gap' packaging
Coil = 560 OD – 320 ID; Box = 580*580*380mm

Part Numbers – GMBH packaging

02030540 QL3053-0-200AQ 200M BRZ
02305410 QL3054-10-500AQ 250 GRAPH
02330540 QL3054-0-500AQ 250M BRZ
02330541 QL3054-1-500AQ 250M WHT
02330542 QL3054-2-500AQ 250M BLK
02330543 QL3054-4-500AQ 250M BGE
02330545 QL3054-5-500AQ 250M L/OAK
02330549 QL3054-8-500AQ CH-NUT

BBA Report

CRITERIA	B.B.A. 345/1 1993	B.B.A. Report 1990	Comments
TENSILE STRENGTH AFTER AGEING	< 25% REDUCTION AFTER 10 DAYS AT 70°C	0% REDUCTION AFTER 28 DAYS	Q-Lon Exceeds the requirement
ELONGATION AT BREAK AFTER AGEING.	< 25% REDUCTION	> 5% REDUCTION AFTER 28 DAYS.	Q-Lon Exceeds the requirement
HARDNESS CHANGE AFTER AGEING	< 25% REDUCTION AFTER 10 DAYS AT 70°C	COMPRESSION FORCE CHANGED BY 5% AFTER 28 DAYS	Q-Lon Exceeds the requirement
TEAR RESISTANCE	RAW MATERIAL TEST ONLY	NO ASSESSMENT	
DEFLECTION RECOVERY 24HRS @ 23°C	> 75% RECOVERY	91.67% RECOVERY @ 70°C	Q-Lon Exceeds the requirement
24hrs @ -15°C	> 75% RECOVERY (LESS THAN 25% SET	100% RECOVERY	
14DAYS @ 55°C	>25% RECOVERY	NOT ASSESSED	
OZONE RESISTANCE		NOT ASSESSED & NOT AFFECTED BY OZONE	This criteria is a limitation of Rubber / E.P.D.M.
DIMENSIONAL STABILITY	HEAT REVERSION < 2%	DIMENSIONAL STABILITY 0.01%	Q-Lon Exceeds the requirement

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The B.P.F. have reviewed the 345/1 document and are shortly to publish a revision. The revisions take account of current European draft standards for seals and will most likely include the following changes.

1. Test methods will not be limited to raw material assessment.
2. The test methods will allow the seal performance to be graded as opposed to minimum levels being specified. The system is intended to allow an appropriate seal to be specified for an application. Minimum performances are still assessed via the functionality tests of the complete window / door unit.

Performance Benefits Summary

Excellent memory – Returns to original shape after compression

Stability – Low/no stretch gained by GF internal cord or insert

Easily compressed – Low compression forces, Unaffected by temp variance (tested to -30oC to +70oC)

Acoustic performance – Independent testing and comparison data available

Paint and Stain Proof – Properties un-affected by standard paints and stains

Stabilised – Unaffected by rot, Fungi, UV light or Ozone.

Colour – Wide range of available options (bronze, white, black, greys, etc)

Jointing – Can be joined with silicone sealant or welded in situ'

Patented. – Selling Seals to the industry for over 30 years

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