

Schlegel Weather Seal Range



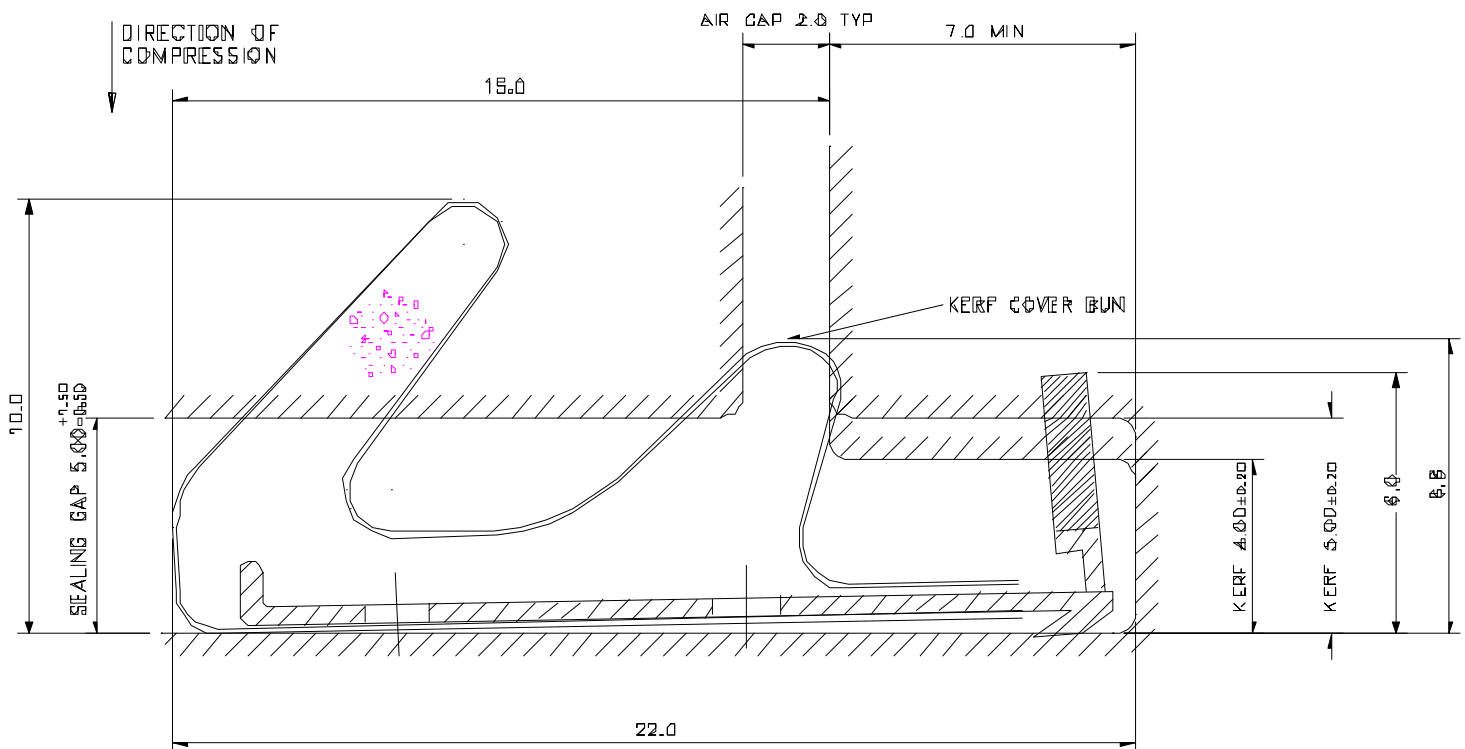
Technical Data Sheet
Product = QLON 3091

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

Specification			
Characteristic	Value	Units	Test Method
ACLD (Aged Compression Load Deflection)	10.0 – 17.0 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 3 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 back / TPE foot
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.

Fire Rating

These seals are NOT fire resistant but can be used in conjunction with intumesant 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

Packaging Specification

UK Card packing; 2 Coils per box; Nominal ***m / Coil N/A
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

Part Numbers

02030910	QL3091 WHITE	CL	
02030911	QL3091 BRONZE	CL	
02330912	QL 3091 BLK 400M CL	CL	400
02330913	QL 3091 D GRY 400M CL	CL	400
02331910	QL 3091 WHT 150M CL M5	CL	150
02331911	QL 3091 BRZ 150M CL M5	CL	150
02331912	QL 3091 BLK 150M CL M5	CL	150
02334910	QL 3091 WHT 400M CL M5	CL	400
02334911	QL 3091 BRZ 400M CL M5	CL	400
02334912	QL 3091 BLK 400M CL M5	CL	
02730910	QL3091-1-400 WHITE	CL	400
02730911	QL3091-0-400 BRONZE	CL	200
02730912	QL3091-2-400 BLACK	CL	200
02731911	QL3091-0-200 BRONZE	CL	200
02731912	QL3091-2-300AQ BLACK	CL	150

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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 ⁰ 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 ⁰ 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 ⁰ C	> 75% RECOVERY	91.67% RECOVERY @ 70 ⁰ C	Q-Lon Exceeds the requirement
24hrs @ -15 ⁰ C	> 75% RECOVERY (LESS THAN 25% SET	100% RECOVERY	
14DAYS @ 55 ⁰ 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

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.

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