

# Schlegel Weather Seal Range



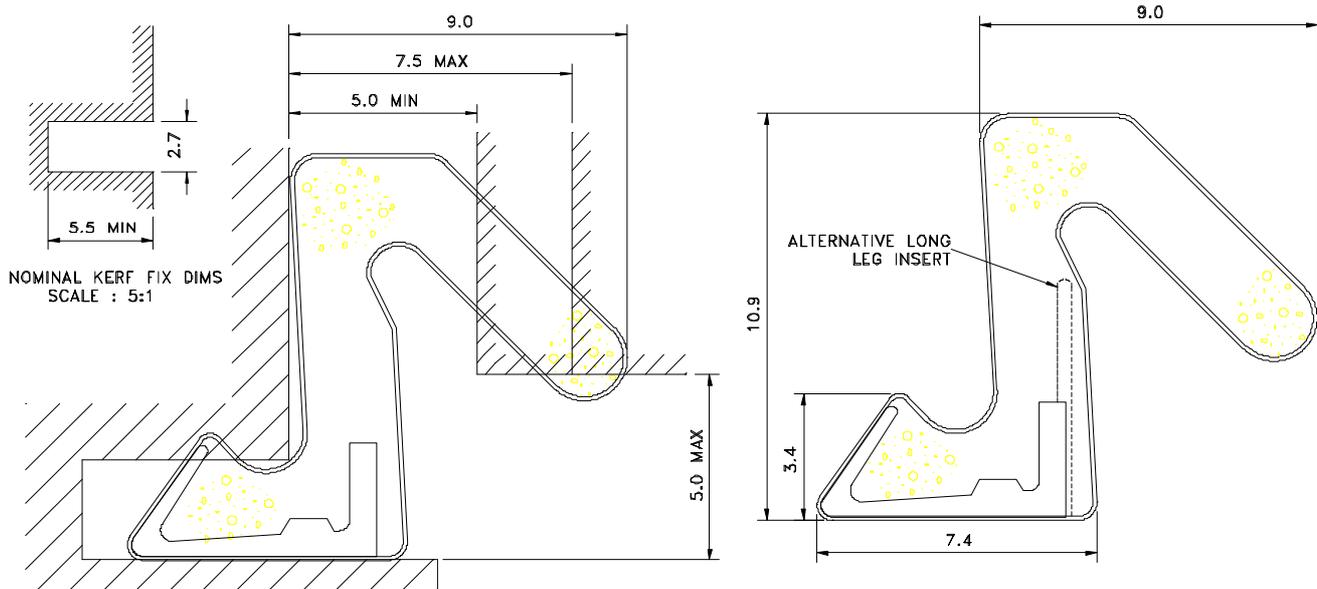
Technical Data Sheet  
Product = Aquamac 21

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

Specification			
Characteristic	Value	Units	Test Method
<b>ACLD</b> (Aged Compression Load Deflection)	0-5	Newtons per 100mm length	In House
<b>Compression Set</b>	>20% set after 24hours (50% compression) @ 70°C	% Recovery mm	In House
<b>Dimensions</b>		mm	In House

[BS EN 12365-1:2003](#) Classification W 3 3 5 6 0

## 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  
 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.*

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## Fire Rating

These seals are NOT fire resistant but can be used in conjunction with intumescent strips as 'smoke seals' – 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

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

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

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

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

*This information is general and should not be taken as specific to the above seal*

## Packaging Specification

UK Card packing; 2 Coils per box; Nominal 250m / Coil

Coil = 825 OD – 425 ID; Box = 710\*710\*380mm

02221250	AQ 21 WHT 250M	CL	250
02221252	AQ 21 BLK 250M	CL	250
02221254	AQ 21 L/OAK 250M	CL	250
02221255	AQ 21 BGE 250M	CL	250
02221259	AQ 21 C/NUT BRN 250M	CL	250
02221300	AQ 21 BRZ 250M	CL	250

## 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 unaffected 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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