Schlegel Weather Seal Range

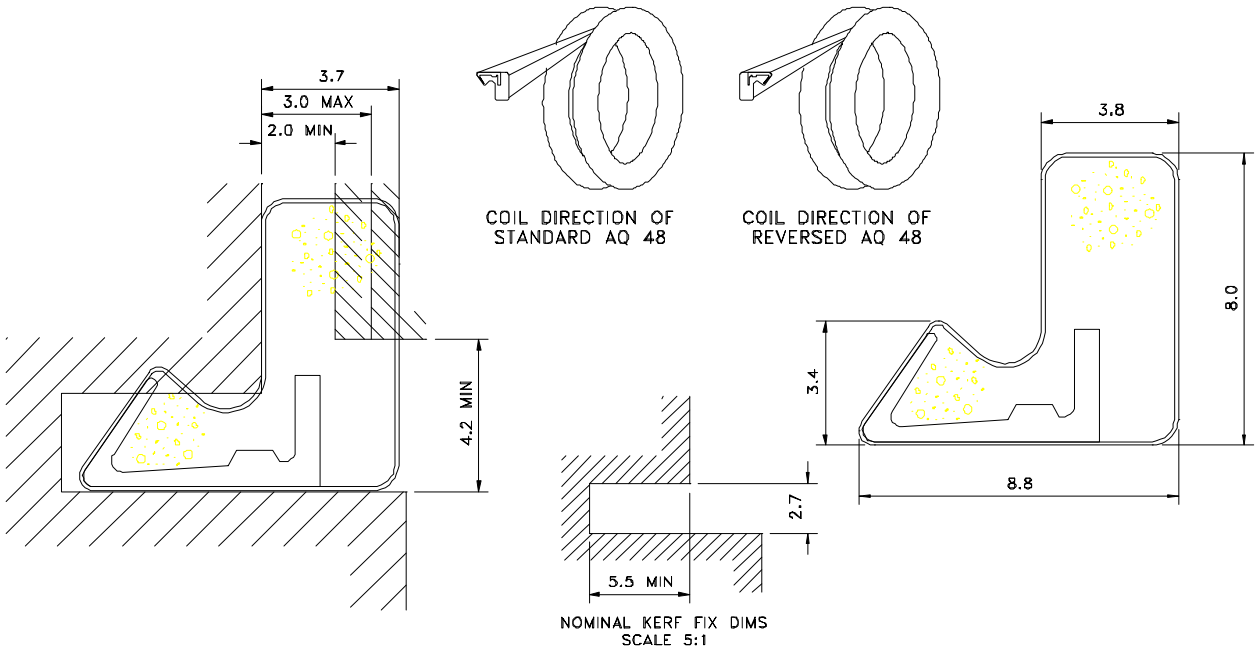
Technical Data Sheet
Product = Aquamac 48

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

Specification			
Characteristic	**Value**	**Units**	**Test Method**
ACLD (Aged Compression Load Deflection)	Standard = 4-11 High Density = 14-21	N/100mm N/100mm	In House
Compression Set	>20% set after 24hours (50% compression) @ 70°C	% Recovery mm	In House
Dimensions		mm	In House

BS EN 12365-1:2003 Classification W 2 4 5 6 6

Drawing Detail



Material / Components
Exterior Liner = Poly-ethylene
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

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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.

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 350m / Coil
Coil = 825 OD – 425 ID; Box = 710*710*380mm

02248050	AQ 48 BRZ NO SPL 350M	CL	350
02248052	AQ 48 WHT NO SPL 350M	CL	350
02248054	AQ 48 LGHT OAK NO SPL 350	CL	350
02248055	AQ 48 BLK NO SPL 350M	CL	350
02248060	AQ48 WHT 350M REV	CL	350
02248062	AQ48 BLK NO 350M REV	CL	350
02248100	AQ 48 (D) WHT 100M	CL	100
02248101	AQ 48 (D) BRZ 100M	CL	100
02248102	AQ 48 (D) BLK 100M	CL	100
02248110	AQ 48 WHT 100M CL	CL	100
02248111	AQ 48 BRZ 100M CL	CL	100
02248310	AQ 48 (D) BRZ 350M	CL	350
02248312	AQ 48 (D) WHT 350M	CL	350
02248314	AQ 48 RAL GRY 350M	CL	350
02248315	AQ 48 (D) BLK 350M	CL	350
02248316	AQ 48 BRZ (D) 350M SINGLE	CL	350
02248350	AQ 48 BRZ 350M	CL	350
02248351	AQ 48 BG 350M	CL	350
02248352	AQ 48 WHT 350M	CL	350
02248354	AQ 48 LGHT OAK 350M	CL	350
02248355	AQ 48 BLK 350M.	CL	350
02248356	AQ 48 BRZ 350M REV	CL	350
02248357	AQ 48 BG 350M REV	CL	350
02248358	AQ 48 WHT 350M REV	CL	350
02248359	AQ 48 BRZ 500M CL GMBH	CL	500
02248360	AQ 48 BLK 350M REV	CL	350
02248365	AQ 48 L/OAK 350M REV	CL	350
02248402	AQ 48 BLK 500M CL REV GMB	CL	500
02248500	AQ 48 BRZ 500M CL GMBH	CL	500
02248501	AQ 48 WHT 500M GMBH	CL	500
02248502	AQ 48 BLK 500M CL GMBH	CL	500
02248504	AQ 48 BGE 500M CL GMBH	CL	500
02248510	AQ 48 BRZ 500M REV GMBH	CL	500
02248511	AQ 48 WHT 500M REV GMBH	CL	500
02248512	AQ 48 BLK 500M REV GMBH	CL	500
02248514	AQ 48 BGE 500M REV GMBH	CL	500
02248516	AQ 48 GRY 500M REV GMBH	CL	500

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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 70^0C	O% 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 70^0C	COMPRESSION FORCE CHANGED BY 5% AFTER 28 DAYS	Q-Lon Exceeds the requirement
TEAR RESISTANCE	RAW MATERIAL TEST ONLY	NO ASSESSMENT	
DEFLECTION RECOVERY 24HRS @ 23^0C 24hrs @ -15^0C 14DAYS @ 55^0C	> 75% RECOVERY > 75% RECOVERY (LESS THAN 25% SET >25% RECOVERY	91.67% RECOVERY @ 70^0C 100% RECOVERY NOT ASSESSED	Q-Lon Exceeds the requirement
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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