



G3

- New generation of pile weatherseals
- Guaranteed on centre to always fit the profile resulting in effortless insertion



Propile

- Provides good resistance to air and water infiltration
- Economy, standard, premier and heavy density pile constructions
- Seals with very low resistance and noise
- Ideal as a secondary seal for composite door applications



Weatherfin

- Welded polypropylene centre fin
- Provides increased resistance to air and water infiltration
- Reduced noise transmission compared to standard pile seals



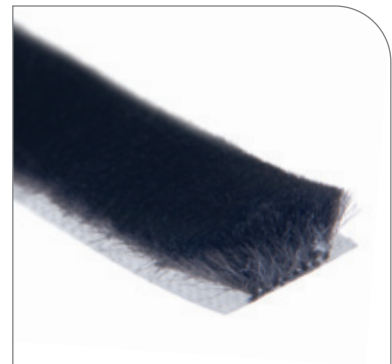
Weatherfin+

- Provides exceptional weather resistance with low breakaway forces
- Ideal for sliding door and window applications which have to pass continuously over the seal



Fringeseal/ T-Foot Fringe

- Designed specifically for narrow profile applications such as swing doors or roller shutters and narrow profile applications
- Light, medium, heavy and bristle pile types
- Four base shapes - crucifix, square and round
- 7mm to 30mm Fringeseal heights and 4.5mm to 6.9mm T-Foot Fringe heights in 0.5 increments



Dustplug

- Designed to suit large gaps in the corners and interlocks of folding and sliding doors
- Yarn stiffness options to suit specific applications
- Fin and SelfStik variants available
- 3mm to 25mm pile height
- Cut to length options

Schlegel Weather Seal Range



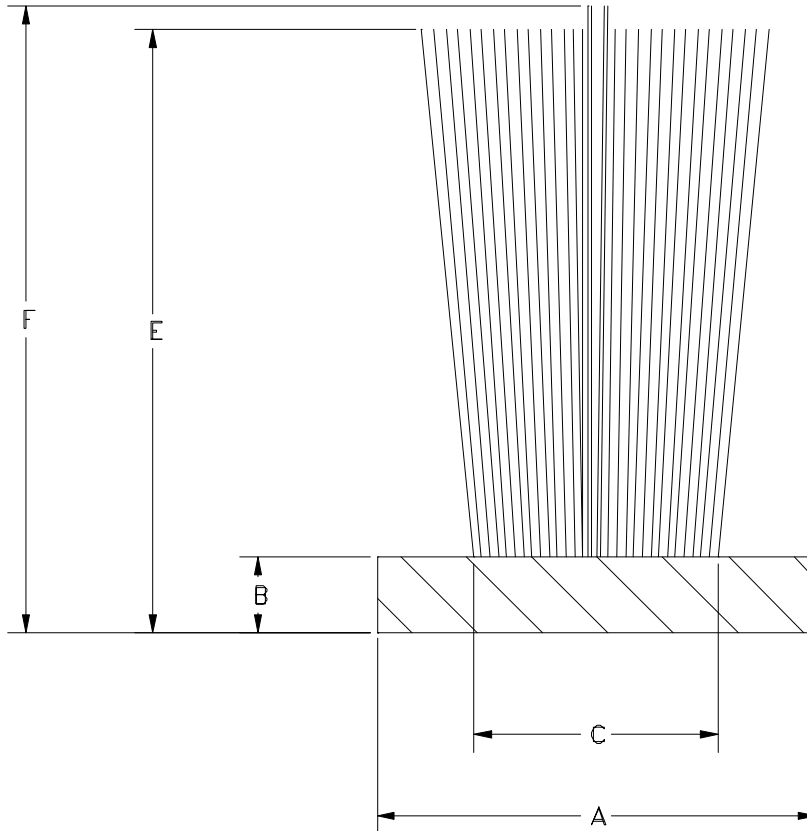
Technical Data Sheet

Product = PB-??-??- No Fin, FP, Cut Fin, Hi Fin

For specific part details and tolerance please contact our technical department

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

Drawing Detail



DIMENSIONAL SPECIFICATIONS & TOLERANCES

| Description | Nominal(mm) | Tolerances (mm) |
|-----------------------|--------------------|------------------|
| A = Base width | 4.8 – 6.7 – 6.9 | + 0,05 / -0,20 |
| B = Backing thickness | 0,8 | ± 0,15 |
| C = Pile base width | 1,90 | +0,20 / -0,30 |
| D = | | |
| E = Pile height | 3.5 - ~ | + 0,36 / - 0,225 |
| F = Fin height | Pile height + 0.25 | ± 0,20 |

MATERIAL SPECIFICATIONS:

| | |
|--------------------|----------------------------|
| Raw Material | POLYPROPYLENE |
| Fin | Polypropylene 100% |
| Pile Properties | 4 x 1200 Den/75F/R.S. Grey |
| Warp Yarn | 400/75/80 Natural |
| Filling Yarn | 320/75/100 Natural |
| Picks x inch : | 29 ppi |
| Water Repellency : | YES |
| U.V Stabilised : | YES |

1) Material Spec summary CP50.06870 , CP50.06871 & CP50.6872

Backing mat'l : 100% polypropylene natural
Pile mat'l : textured polypropylene multifilament yarn
Siliconized and UV-stabilised
Trilobal cross section
Colour: TBA
Coating: polypropylene resin
Film: 100% polypropylene 70 micron, UV-stabilised

2) Thermal Values of Pile Weather-strip

Pile weather-strip manufactured by Schlegel Limited is 100% homopolymer polypropylene.

We can only advise a general estimate of the value of the raw material, which is:-

0.95 Btu-in/ft² Hr°F or 0.12W/mKelvin .

This value is based on the density of polypropylene being 0.905gms/cm³ - the actual measured density of polypropylene pile weather-strip is in the range of

0.3gms/cm³ to 0.4gms/cm³ - therefore we would expect the thermal value of pile weather-strip to be better than the stated value of the polypropylene

3) Packaging Specification

Standard Card packing; 2 Coils per box; Nominal

GENERAL INFORMATION: Schlegel is the world's leading manufacturer of quality pile weatherseals. Pile weatherseals are closely woven textile yarns interlaced into a backing. They prevent the infiltration of dust, light, noise and air through the perimeter on a closed window or door.

TYPICAL APPLICATIONS :

- *Sliding windows and doors.
- *Shutter guide rails.
- *Sliding wardrobe doors.
- *Swing doors.
- *Door bottom seal.
- *Showcases etc.

Pile weatherseal



FIN-SEAL weatherseal



AVAILABLE TYPES:

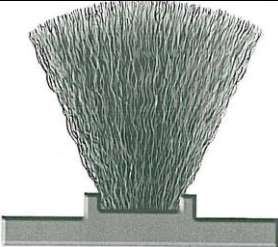
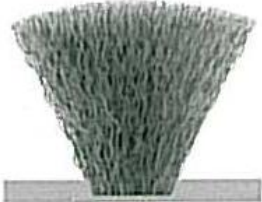
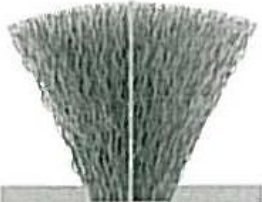
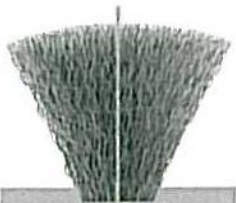
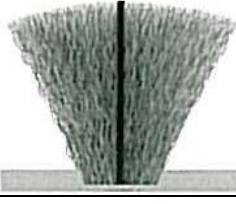
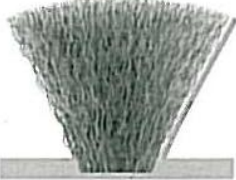
PB: Standard pile without fin.
FP: Pile with FIN-SEAL - for high air and water performance. Fin is 0.25mm above the pile.
HF: Pile with HIGH-FIN - as FP, for reducing break-off force of sliding elements. Fin 2.5mm +/- 0.5mm above the pile.
ZF: Pile with a Z shaped Fin - for increased crush resilience.

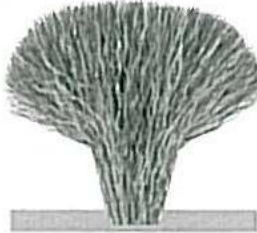
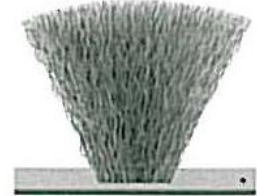


MATERIAL: Pile, base and fin - polypropylene, non-aging. Pile is silicone treated, water repellent.

| TO ORDER | Backing material = 'POLYBOND' | Backing width 4.8 or 6.9mm | Pile height 4 - 8.5mm | Pile density or fin type |
|----------|-------------------------------|----------------------------|-----------------------|--------------------------|
| Example | PB | 48 | 450 | 3P |

| Pile Height | Standard PB 48 | Standard PB 69 | Finpile PB 48/69 | Hi-Fin PB 48/69 | Z-Fin PB 48/69 |
|-------------|----------------|----------------|------------------|-----------------|----------------|
| 4 | 400 – 3P | 400 – 4P | 400 FP | 400 HIFIN | 400 ZFIN |
| 4.5 | 450 – 3P | 450 – 4P | 450 FP | 450 HIFIN | 450 ZFIN |
| 5 | 500 – 3P | 500 – 4P | 500 FP | 500 HIFIN | 500 ZFIN |
| 5.5 | 550 – 3P | 550 – 4P | 550 FP | 550 HIFIN | 550 ZFIN |
| 6 | 600 – 3P | 600 – 4P | 600 FP | 600 HIFIN | 600 ZFIN |
| 6.5 | 650 – 3P | 650 – 4P | 650 FP | 650 HIFIN | 650 ZFIN |
| 7 | 700 – 3P | 700 – 4P | 700 FP | 700 HIFIN | 700 ZFIN |
| 7.5 | 750 – 3P | 750 – 4P | 750 FP | 750 HIFIN | 750 ZFIN |
| 8 | 800 – 3P | 800 – 4P | 800 FP | 800 HIFIN | 800 ZFIN |
| 8.5 | 850 – 3P | 850 – 4P | 850 FP | 850 HIFIN | 850 ZFIN |

Pile Weatherseal Product Range

| | Product Name | Base/backing widths | Pile height |
|---|--|---------------------|-------------|
|  | <p>G3 G3 is the new generation of pile weatherseals. Guaranteed on centre to always fit the profile resulting in effortless insertion and zero downtime. Available with or without a central fin. Recommended compression 10-15%</p> | 4.5mm to 12.7mm | 5mm to 25mm |
|  | <p>ProPile For maximum economy ProPile offers good resistance to air infiltration and water penetration. Available in 4 grades, Standard (S) Economy (Ec) Premier (P) and Heavy Density (HD) Recommended compression 15-20%</p> | 3.5mm to 12.7mm | 3mm to 25mm |
|  | <p>Weatherfin For severe weather resistance, Weatherfin incorporates a welded polypropylene centre fin which provides a solid barrier against air infiltration and water penetration and significantly reduces noise transmission. This product can also be supplied with the fin below level of the pile. Recommended compression 10-15%</p> | 4.5mm to 12.7mm | 3mm to 25mm |
|  | <p>Weatherfin + Similar to Weatherfin but with a central fin barrier that extends above the pile to give exceptional performance with low breakaway forces. Suitable for sliding window and door applications. Recommended compression 5-10%</p> | 4.5mm to 12.7mm | 3mm to 25mm |
|  | <p>Quietfin Similar to Weatherfin but with a soft bonded centre fin to ensure quiet operation. This product can be supplied with the fin above or below the level of the pile. Recommended compression 10-15%</p> | 4.5mm to 12.7mm | 3mm to 25mm |
|  | <p>Sidesheild Similar to Weatherfin but with the fin on the sde of the pile instead of in the centre, Useful in protecting the pile from accidental paining or staining. Recommended compression 10-15%</p> | 4.8mm to 12.7mm | 3mm to 25mm |

| | | | |
|---|---|--------------------------------|----------------------------|
|  | <p>Glidefit A patented process, Glidefit fuses together the yarn at the base of the pile to aid insertion and retain pile stability. This process is available on most products.</p> | <p>4.5mm to 12.7mm</p> | <p>3mm to 25mm</p> |
|  | <p>Selfstik A self adhesive weatherstrip, The backing is coated with a high tack pressure sensitive adhesive and covered with a release liner which is removed prior to use. Ideal for retrofit and upgrading sliding doors and sliding sash windows..</p> | <p>4.8mm to 12.7mm</p> | <p>3mm to 25mm</p> |
|  | <p>Fringeseal and T-Foot Fringe. For sealing gaps around swing doors, roller shutter and the narrow profile applications. Available in light ,medium, heavy and bristle pile and in four base shapes, cross, square, round and diamond. It is also available with a T-Foot base.</p> | <p>2.4mm to 3.2mm</p> | <p>7mm to 30mm</p> |
|  | <p>Dustplug For sealing large gaps at corners and interlocks of sliding windows and doors. Available in various densities and constructions and incorporating yarn of different stiffness. Dustplugs can have fins and adhesive applied. And can be supplied on reels or cut to length.</p> | <p>14mm to 70mm</p> | <p>3mm to 25mm</p> |

National
Seal Systems
Limited

Unit 210 Holly Road, Western Industrial Estate.
Naas Road, Dublin 12
Ph 00353-1-4565170 Fax 00353-1-4502371
Email: info@nationalseal.ie web: www.nationalseal.ie