



Pilkington **Activ**[™]

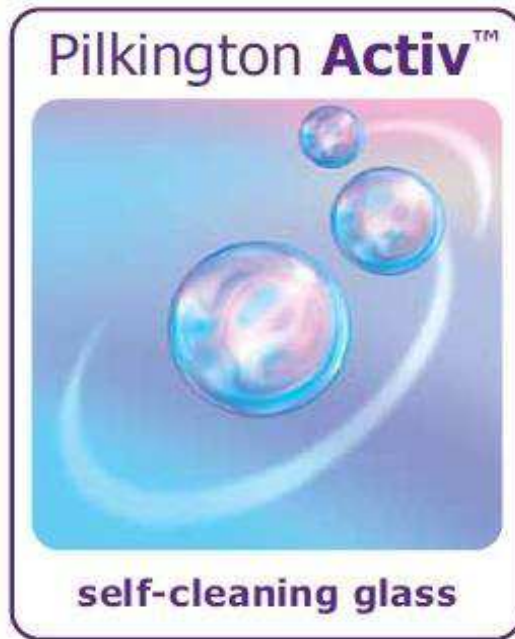


self-cleaning glass

Customer Technical Update

Pilkington **Activ**[™]

The world's first self-cleaning glass



Products Compatible with Pilkington Activ™
Oct-20

Testing has demonstrated that the use of incorrect materials and in particular silicone containing products with Pilkington **Activ™** can affect its performance. This list has been created to help identify compatible materials for use with Pilkington **Activ™**

This update contains information which is designed to provide you with up to date information about the technical aspects of Pilkington **Activ™**, in particular glazing materials that are compatible with the product.

New information added since the last edition is shown in RED so you can easily find it.

If you have any further questions, please contact your NSG Group Sales Manager.

Additional advice can be found in the "Handling and Processing Guidelines for Window Manufacturers".

Further information is also available from our website **www.pilkington.com**

The suppliers that are listed in this document submitted products for testing.

The samples submitted were tested for compatibility with Pilkington **Activ™** and the results were positive.

There may be other equivalent products that are also compatible, but which have not been tested.

For any product, guidance should be sought from the supplier regarding its suitability as a glazing material, or its compatibility with other glazing materials.

The glazing method should also take into account the recommendations given in relevant national standards, regulations, codes of practice and recommendations of the manufacturer or supplier of the glazing material.

Pilkington **Activ™** has been **successfully** tested to EN 1096-2 **Class A** which tests the durability of the coating **and meets the requirements of EN 1096-5** for self-cleaning performance.

The products are all listed with the dates that they were tested. Please check with the supplier that they have not changed their raw materials or manufacturing process in any way that would affect their product's compatibility. NSG Group supply this information as a service to their customers but accept no responsibility for any loss or damage incurred as a result of using this information.

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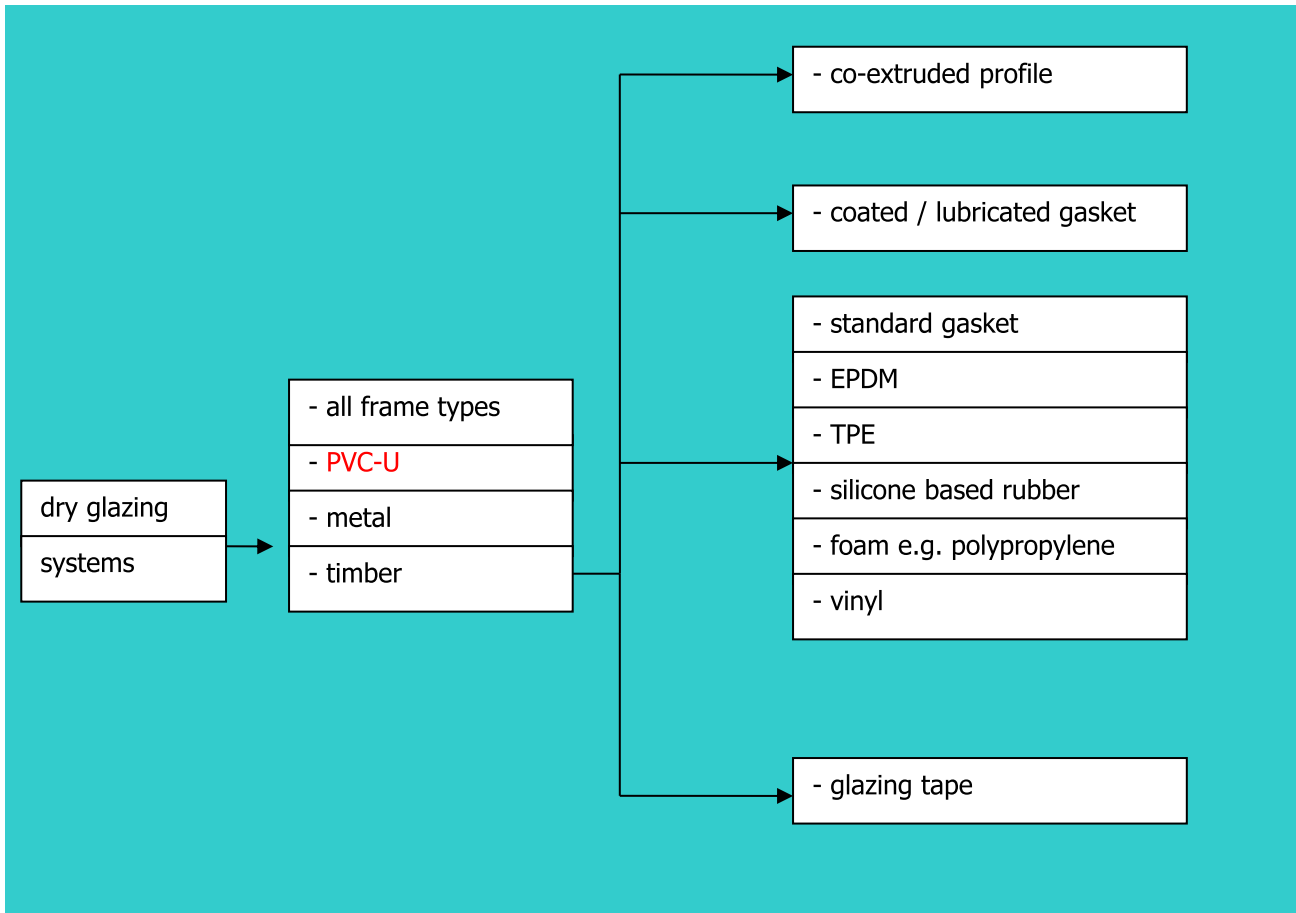
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1. Dry Glazing System Materials - Residential and Commercial Applications



When glazing Pilkington Activ™, the strongly preferred option is to use a co-extruded gasket or a dry rubber gasket.

Only if the use of a dry gasket or co-extruded system is not possible should a rubber gasket lubricated with glycerol or alternative silicone free / siloxane free lubricant be used.

If all of the above options are unavailable then Pilkington Activ™ may be glazed with a recommended silicone emulsion lubricant on a thermoplastic (TPE) rubber gasket. If this option is utilized care should be taken and the following points have to be taken into consideration.

1. All of the lubricated gaskets have been tested for compatibility with Pilkington Activ™ in the vertical orientation. Some of the gaskets that are lubricated with a siloxane emulsion have occasionally shown very low levels of leaching (<2 cm) around the perimeter of the glass.

2. Lubricants added to gaskets should only be applied by the manufacturer. Under no circumstances should additional lubricant be added to the gasket. Addition of extra lubricant is likely to result in uncured material on the surface and significantly increases the chances of leaching

3. Due to the longer residence time of water on the gasket, there is the potential for an increased level of leaching if these same gaskets used in sloped glazing. Please check with your supplier to ensure gaskets lubricated with siloxane emulsion are not used in sloped installations.

UNDER NO CIRCUMSTANCES SHOULD A SILICONE OIL LUBRICATED GASKET BE GLAZED AGAINST Pilkington Activ™.

1.1 Co-extruded Gaskets

Supplier	Product Name	Date Tested	Website	Telephone
Duraflex	Duraflex co-extruded gasket	01.12.2002	www.duraflex.co.uk	UK +44 1452 726010
Industrial Flexo	Co-extruded gasket. Sample ID: 22.97.8001.0	01.10.2003	www.avon-rubber.com	UK +44 1225 861100
Profile 22	Bubblex	15.2.06	www.profile22.co.uk	UK +44 1952 290910
Rehau AG	Rau-pren	13.12.2002	www.rehau.com	Germany +44 9131 92 5362
Ultraframe	Ultraframe Co-extruded profiles	12.3.2006	www.ultraframe.com	UK +44 1200 443311
Veka Ltd	Co-extruded profile	15.01.2003	www.vekauk.com	UK +44 1282 716611

1.2 Coated/Lubricated Gaskets *

Note: Lubricated/Coated samples sent for testing showed little or no hydrophobic leaching and therefore passed tests. Due to the nature of these lubricants they must be applied by the manufacturer and be fully dried prior to use. Under no circumstances should additional lubricant be applied on site.

Check with supplier that the amount of lubricant applied to the gasket has not change composition/increase, as this may reduce product compatibility.

Supplier	Product Name	Date Tested	Website	Telephone
ATEL SRL	EDPM 70PX (2GTC070) and EDPM 60PX gaskets with Promol Dip Solution 213 silicone-free lubricant	10.11.2017	www.atelitalia.com	Italy +39 02 5760 0821
AVATEC Industrie Produkte GmbH Lubricant Supplier	Polymer S EPDM Siloxane Lubricated	01.10.2005		Germany +49 2861 90297-0
Barbe	Silicone free mounting lubricant	15.2.06	www.barbe.de	Germany +49 611 182920
CGP Chemicals Ltd	CGP 2321 Profile Coating	15.2.06	www.cgpchemicals.co.uk	UK +441283511101 sales@cgpchemicals.co.uk
Deflex-Dichtsysteme	EPDM gasket with glycerol	01.12.2002	www.deflex.de	Germany +49 0203 31808-0
	EPDM + Talc	01.12.2002		
	Any TPE/EPDM Gasket with Deflex-Gummispray A1	Q2 08		
DJ Profiles	EPDM with glycerol	27.01.2003	www.trelleborg.com	UK +44 1952 290303
Fa. Dätwyler Inter GmbH	EPDM with special slip-polymer	01.12.2002	www.daetwyler.ch	Germany +49 50459109-22; Switzerland +41 41 875 1122; UK Swindon, France Estreé, Italy Milano, Poland Pruszkow
Fa. M.O.L. Gummiverarbeitung	EPDM with lubricant	Jan-05	www.mol-seals.de	Germany +49 4441 9245-0
Fabprene	Glycerol Lubricated EPDM	01.01.2006	www.fabprene.co.uk	UK +44 161 342 6902
FinnProfiles Oy	TPE 57SHA	13.11.2002		Finland +35 8 817 6090
Flevo Rubber	Talc Lubricated EPDM 60	01.11.2005	www.flevo-extrusion.nl	Netherlands +31 320 233007
	Talc Lubricated EPDM 70			
	Talc Lubricated EPDM 80			
	Promol Lubricated EPDM 60			
	EPDM 60 Shore with HC Glide 811 lubricant	10.2006		
	EPDM 70 Shore with HC Glide 811 lubricant			

Evonik Nutrition & Care GmbH	Getren 3300 Lubricated Siloxane Based Lubricant (any TPE/EPDM Getren 3300 Lubricated Gasket)	Jan-05	www.getren.com	Germany +49 201173 2570
	Any TPE/EPDM Getren 3600 lubricated gasket	11.2013		
Evonik Nutrition & Care GmbH (Lubricant Supplier)	TPE Gasket with Siloxane based Slip Coating Getren P3300	01.12.2002	www.getren.com	Germany +49 201173 2570
GTG Gummitechnik W. Bartelt	EPDM with slip coating	01.12.2002	www.gtg-group.com	Germany +49 9073 9507-0
	EPDM gasket with organic lubricant	01.12.2002		
	EPDM gasket with water based lubricant	01.12.2002		
IEB Gummitechnik Eisele & Co	TPE gasket with lubricant Getren P 3300	01.12.2002	www.ieb-gummitechnik.de	Germany +49 6061 9597-0
	TPE gasket with soapy water	01.12.2002		
Industrial Flexo	EPDM gasket with E5 lubricant. Sample ID: 22.95.8419.1	01.10.2003	www.avon-rubber.com	UK +44 1225 861100
J Allcock and Sons Ltd	Allcosil Lubricant on approved gasket	01.07.2007	www.allcocks.co.uk	UK +44 161 223 7181
KORALUB	Any KORALUB lubricated EPDM gasket	01.03.2010	www.obermeier.de	Germany +49 2751-5041
Leeser GmbH	EPDM with slip coating	Jun-08	www.leeser.de	Germany + 49 2433 4508 – 247
Linear	TPE 4058-101	02.09.2002		UK +44 1325 375126
M + R Dichtungstechnik GmbH	KORALUB Emulsion G EPDM gasket	01.03.2010	www.mur-dichtungstechnik.de	Germany +49 6182-9567-24
M + R Dichtungstechnik GmbH	KORALUB gasket with AC 600 lubricant	01.03.2010	www.mur-dichtungstechnik.de	Germany +49 6182-9567-24
Marbocote Ltd.	Rubber gaskets with silicone free lubricant DNS 150TP	29.09.2020	www.marbocote.co.uk	Unit 9, Dalton Way, Middlewich, Cheshire, CW10 0HU UK: +44 (0)1606 738737
Mehren	Mehren EPDM gasket with talc	18.06.2002	www.mehren.no	Norway +47 337 85500
Meteor Gummiwerke K. H. Bädje GmbH & Co. KG	Colourlock AC 600 EPDM	Jan-05	www.meteor.de	Germany +49 5067/25-0
Meteor Gummiwerke	MEPSOLAC S	7.2011	www.meteor.de	Rolf Hoppenheit Germany +49 5067/25-113
	MEPSOLAC E			
	lubricants			
Phoenix Benelux BVBA	EDPM with slip coating	01.08.2004	www.phoenix-benelux.com www.phoenix-dt.de	Belgium +32 3 206 7420 Germany +49 3622-633494
Profile 22	TPE Silicone	15.01.2003	www.profile22.co.uk	UK +44 1952 290910

Saargummi	Nova Strip	06.11.2002	www.saargummi.de	Germany +49 687469-0
Savatech	STL 50410 glycerol EPDM	13.12.2002	www.savatech.co.uk	UK +44 20 82883508
	STL 50410G glycerol EPDM	13.12.2002		
	STL 50410 talc (EPDM)	13.12.2002		
	STL 50410G talc (EPDM)	13.12.2002		
Schill + Seilacher AG	Struktol VP 5289 Siloxane Based Lubricant (Any TPE/EPDM Lubricated Gasket)	1.2007	www.struktol.de	Germany +49 40-733-62-240
	EPDM gaskets lubricated with Struktol VP 5379	02.04.2014		
Secil Rubber Industry & Trading Inc			www.seciltr.com	Turkey +90 324 616 1140
	Black gasket (Talkum)	07.07.2014		(Contact: Sedat Ergezer)
Semperit	EPDM with slip coating	14.02.2002	www.semperit.at	Germany +49 991 27020; Austria +43 2630 310 214; France +33 1 30 25 87 25; Italy +39 0425 410 680 (Roiter); Sweden +46 8 88
	EPDM gasket with glycerol	14.02.2002		
	EPDM + Talc	14.02.2002		
Slottseal Extrusions Ltd	Slottseal gasket TPE	05.11.2002		UK +44 1604 759535
Synseal	TPE gasket with glycerol	01.02.2004	www.synseal.com	UK +44 1623 443200
	VTP TPR Gasket Coated with Synseal Slip Coating	10.2006		
TPP	Easy Set EPDM and Glide Polymer	01.10.2005	www.tpp-bv.com	NL +31 578-677330

Trelleborg	EPDM with slip coating	01.08.2004	www.trelleborg.com/industrialprofiles	Sweden +46 370 48191; UK +44 121 352 3873; Norway +47 648 66160; Finland +358 3314 30900; Denmark +45 75 64 72 52; France +33 556 70 25 95; Belgium +32 55 20 67 64; Germany +49 626 192350; Poland +48 42 613 6322; export from Sweden +46 381 60519
	Trelleborg EPDM extruded gasket	18.12.2002		
	Plastmo 6805077 EPDM	01.08.2004		
	Plastmo 6805079 EPDM	01.08.2004		
	Trelleborg extruded gasket with talc	01.09.2002		
	EPDM gasket with potato starch	01.09.2002		
Vredestein	Tauchmittel 525A(EPDM) + glycerol	22.01.2003	www.vredestein-sealings.com	NL +31 317 399 256

1.3 Dry EPDM Gaskets

Supplier	Product Name	Date Tested	Website	Telephone
Conta flexible products	240-901	Q1 2012	www.conta.com.tr	
	470-901			
Fa. Dätwyler Inter	Dry EPDM	01.12.2002	www.daetwyler.ch	Germany +49 50459109-22; Switzerland +41 875
	Dry EPDM	Q1 2009		
Deceuninck	P1999	3.2015	www.deceuninck.co.uk	UK +44-1249-816-969
	P3299			
	EPDM gaskets			
Deflex	EPDM gasket	3.2012	www.deflex.de	Germany +49 203 31808-0
Flevo Rubber	Dry EPDM 60	01.11.2005	www.flevo-extrusion.nl	Netherlands +31 320 233007
	Dry EPDM 70			
	Dry EPDM 80			
Gruppo BMP	Dry EPDM 70	27.01.2009	www.bmp.it	Italy +390 331 57391
GTG Gummitechnik W. Bartelt	Dry EPDM gasket	01.12.2002	www.gtg-group.com	Germany +49 9073 9507-0
Industrial Flexo	Dry EPDM gasket 70. Sample ID: 22.80.8016.0	01.10.2003	www.avon-rubber.com	UK +44 1225 861100
Mehren	Peroxide EPDM gasket. Sample ID: 22.95.8419.0	01.10.2003	www.mehren.no	Norway +47 337 85500
	Mehren Gasket	18.06.2002		
PRODEX	Prodene 404	Q4 2011	www.prodex- elastomeres.com	France +33 237 257 783
	Prodene 503			
	Prodene P524			
	Prodene P704			
Reddiglaze	Reddiglaze EPDM	17.09.2002	www.reddiglaze.com	UK +44 1905 795432 (also export into Europe)
Rehau AG	Wooden frame gasket	17.09.2002	www.rehau.com	Germany +49 9131 92 5362
	Dry EPDM gasket	13.12.2002		
Sanok	3EP6502 (DES) 3EP6010 SEP7019 3EP8003 Dry EPDM gaskets	08.07.2017	www.sanokrubber.com	PL +48 13 465 4800 kontakt@sanokrubber.pl
SAPA	RU1600 EPDM gasket	01.06.2009	www.sapabuildingsyste ms.co.uk	UK +44 1684 853 500
SAPA	DFC1510 gasket	01.11.2010	www.sapabuildingsyste ms.co.uk	UK +44 1684 853 500
Semperit	Dry EPDM	10.10.2006	www.semperit.at	Germany +49 991 27020; Austria +43 2630 310 214; France +33 1 30 25 87 25; Italy +390425 410 680 (Roiter); Sweden +46 8 88 04 20; Netherlands +31 33 245 8324; UK +44 118 921 4801
	2631 and 2610			

Trelleborg	Trelleborg Extruded Gasket	01.09.2002	www.trelleborg.com/industrialprofiles	Sweden +46 370 48191; UK +44 121 352 3873; Norway +47 648 66160; Finland +358 3314 30900; Denmark +45 75 64 72 52; France +33 556 70 25 95; Belgium +32 55 20 67 64; Germany +49 626 192350; Poland +46 42 613 6322; export from Sweden +46 381 60519
Tremco	Peroxide EPDM 65	09.01.2003	www.tremcoeuropa.com	UK +44 1753 691696; Germany +49 2405 426662; Netherlands +31 55 533 6062; Sweden +46 31 57 00 10; Finland +358 95 499 4500; France +33 1 34 58 57 00; Italy +390 2 98 281854; Norway +47 2 32 71 70
Veka Ltd	VISIONstrip	01.08.2009	www.vekauk.com	UK +44 1282 716611
	70 Duro EPDM	09.01.2003		
	60 Duro EPDM	09.01.2003		
	SCR 900-70	09.01.2003		
	VEKA Extruded EPDM	15.01.2003		
Wilfried Becker GmbH	04150136, 04150138 and 04150145	1.5.2007	www.baulager.de	Germany +49 2131758100

1.4 Dry TPE Gaskets

Supplier	Product Name	Date Tested	Website	Telephone
Euroseal	Euroseal Blue Label Gasket	10.06.2003	www.euroseal.co.uk	UK +44 121 344 4100
FinnProfiles Oy	TPE 57SHA	13.11.2002		Finland +358 8 817 6090
Linear	TPE 4100-101	02.09.2002		UK +44 1325 375126
	TPE 4058-101	02.09.2002		
Profile 22	TPE Dry	15.01.2003	www.profile22.co.uk	UK +44 1952 290910
Reddiglaze	Reddiglaze TPR	02.09.2002	www.reddiglaze.com	UK +44 1905 795432 (also export into Europe)
Secil Rubber Industry & Trading Inc	Black gasket (dry)	07.07.2014	www.seciltr.com	Turkey +90 324 616 1140
				(Contact: Sedat Ergezer)
Slottseal Extrusions Ltd	Slottseal Gasket	01.11.2002		UK +44 1604 759535

1.5 Other Dry Gaskets

Supplier	Product Name	Date Tested	Website	Telephone
BIW Isolierstoffe GmbH	Silicon P60	-	www.biw.de	Germany +49 2333 83080
Deflex-Dichtsysteme	Dry silicone gasket	01.12.2002	www.deflex.de	Germany +49 203 31808-0
Eurocell	Eurocell E Gasket	15.5.2006	-	UK +44 01246 205577
FinnProfiles Oy	Silicone 65 SHA extruded or baked silicone versions	13.11.2002		Finland +358 8 817 6090
Hermann Gutmann Werke AG	Silicone gasket 750010 + 750011	Q2 08	www.gutmann.de	Germany +49 9141 9 92 - 0
Hydro Polymers	VA 2010	27.09.2004	www.hydro.com	Norway +47 22 53 81 00
Leeser GmbH	dry foamed rubber	Q2 08	www.leeser.de	Germany +49 2433 4508 – 247
Metal Technology	CA25	SD36	1.12.07	www.metaltchnology.com UK +44 2894 487777 (Fax 02894 487878)
	CA26	SD37		
	CA27	SD115		
	CA28	SD134		
	CA29	CW11		
	CS55	CW12		
	CS63	HR5059		
	WB757	HR50120		
	58	HR50121		
	63	VS122	21.01.2009	
	66	VS123/BK		
M+S Silicone GmbH		01.01.2006	www.ms-silicon.de	Germany +49 231967890-0
PAL Glazing	PAL glazing not lubricated	24.01.2003	www.palgroup.co.uk	UK +44 121 526 4048
Ravenscroft Plastics	Sapa C4169	07.03.2003	www.ravenscroft.co.uk	UK +44 1684 292272/299669
Reddiglaze	Reddiglaze PVC Dry Vinyl	02.09.2002	www.reddiglaze.com	UK +44 1905 795432 (also export into Europe)
Rehau AG	Dry silicone gasket	13.12.2002	www.rehau.com	Germany +49 9131 92 5362
REIFF Technische Produkte GmbH	Silicone rubber gaskets formulation No. 3056674_001	12.05.2014	www.reiff-gruppe.de	Germany +49 7121 323-436 (Contact: Hans-Peter Kilgus)
SAPA Building Systems (UK)	VSW gasket (PVC Nitrile) C520	Jun-11	www.sapabuildingsystems.co.uk	UK +44 1684 853 500 (Fax +44 1684 851 850)
Schlegel	Q-Lon Dry Foam	18.12.2001	www.schlegel.co.uk	UK +44 1462 815500; Germany +49 407 33290; Italy +390 221 36115; Belgium +32 59 270300

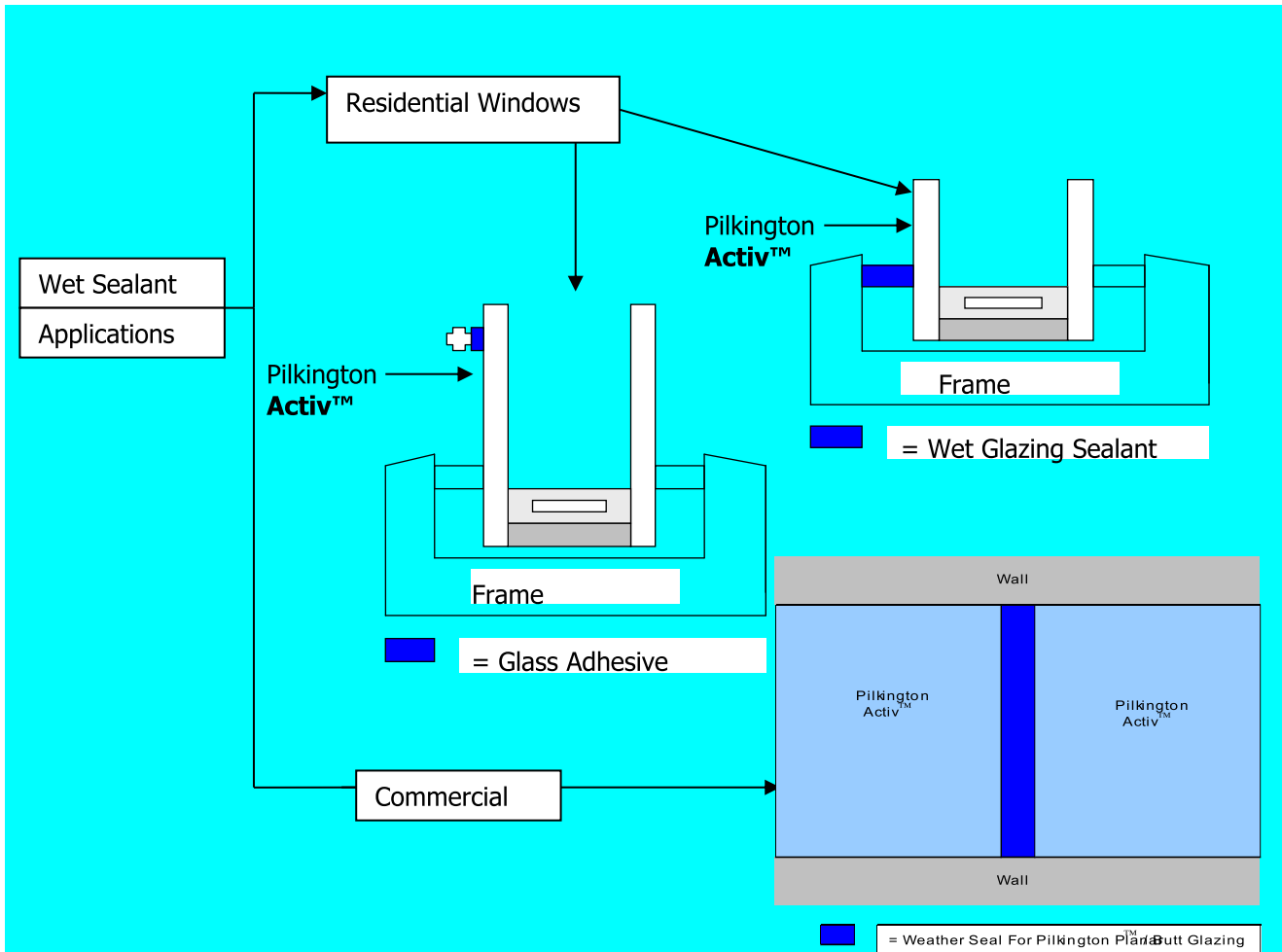
Senior Aluminium Systems	SMRTB4, SCG24, SW4G, SWFS, SWW6, SWDG, SWRG, SWDG02, SPGRG, SW4ATH, SRA35311, SMRG2, SRG10, SRA34025, SCWG, SWRG3, SWW4, SRG6, SSG201, SW3B, SW27G, SRA353111, SWW8, SW4C2, SW4B	Apr-08	www.senioraluminium.co.uk	UK +44 1790 772600, Fax +44 1709 772601
Silex GmbH	Tempered Silicone Gasket	01.11.2005	www. Silex-silikon.de	Germany +49 2323 98644-0
	Silicone foam	Q2 08		
Sipro (Saint Gobain Performance Plastics SIPRO GmbH)	Silproslide Type A black dry silicone gasket	01.12.2002	www.sipro.de	Germany +49 611 92813-0

1.6 Glazing Tape/Material Systems

Supplier	Product Name	Date Tested	Website	Telephone
3M	Acrylic Foam 4941 P	14.05.2003	www.mmm.com	Global +1-888-364-3577
	Acrylic Foam 4613	14.05.2003		
	Pressure Sensitive Tape-	14.05.2003		
	4408 A-30	01.02.2005		
Adshead Ratcliffe	glazing tape	26.03.2003	www.arbo.co.uk	UK +44 1773 821215
	sponge glazing tape	26.03.2003		
Biolink - from UK Industrial Tapes Ltd	ProLink 1500R, FoamLink 1603H	17.04.2003	www.ukindustrialtapes.co.uk	UK +44 191 487 3255
Hodgson Sealants	Profile Tape 8x4	01.12.2002	www.hodgson-sealants.co.uk	UK +44 1482 868321
	Foam Sekure XD (for	01.12.2002		
	Flexi Bond 15x3	01.12.2002		
	Flexi Strip 15x5	01.12.2002		
	Colourglaze Putty	10.2006		
	Butyl Glazing compound			
	Rapid Set Putty			
	Linseed Oil Putty			
	(Check Application			
Multipurpose Putty				
Illbruck Sealant Systems Uk	Alfas Glasket (Glazing	10.06.2003	www.illbruck.com	UK +44 191 419 0505
	Alfas SGT PVC - DSX (Security Glazing Tape)	10.06.2003		
	Alfas SGT PVC - DST (Security Glazing Tape)	10.06.2003		
	Alfas SGT PE - DSP (Security Glazing Tape)	10.06.2003		
	Alfas SGT Super (Security Glazing Tape)	10.06.2003		
Illbruck	Butyl tape ME403	3.2012	www.tremco-illbruck.com	Germany +49 2203 57550 600
Kawo	KAWO Vorlegeband (Art.Nr.4060905)	01.08.2004	www.kawo.de	Germany +49 5121 76 1935
	KAWO Vorlegeband (Art.Nr.4060905)	01.08.2004		
Metal Technology	Butyl backed foil tape – HR5064	Jun-08	www.metalttechnology.com	UK +44 2894 487777 (Fax +44 2894 487878)

Scapa Group	A1178	3594	08.08.2009	www.scapa.com	UK +44 161 301 7400; France +33 475 448 000; Italy +39 0161 867 311; Germany +49 800 72387 62
	A1179	3507			
	A1138	5169			
	A1130TP	5179			
	A11TO	5464			
	A177A	5404			
	A1139	5164			
	A1130TL	3099			
	A11BO	3209			
	A1270	5189			
	A1100	5469			
	3259	3154			
	3257	3509			
	A1160	3589			
A1170	5409				
Scmid Baukunststoffe	Butyl Tape	01.01.2005	www.scmid- baukunststoffe.de	Germany +49 35341 10 000	
Shand Higson	5189/4 (Security Glazing Tape)	17.04.2003	www.shandhigson .co.uk	UK +44151 207 5661	
Tremco	Tremco 440	02.09.2003	www.tremcoeurop e.com	UK +44 1753 691696; Germany +49 2405 426662; Netherlands +31 55 533 6062; Sweden +46 31 57 00 10; Finland +358 95 499 4500; France +33 1 34 58 57 00; Italy +390 2 98 281854; Norway +47 2 32 71 70	
	Tremco SST-800				
	Tremco NS tape				
	Tremco Butyl Tape				
	EPDM and Neoprene sponges				
Polyshim					
Tesa AG	Tesaband 50560	10.2006	www.tesa.de	Germany +49 40 4909 3400	
	Tesaband 50030 PVO				
	Tesaband 50550-60				
	Träger 7/06				
UK Industrial Tapes	ProLink 1500R	17.04.2003	www.ukindustrialt apes.co.uk	UK +44 (0)191 487 3255	
	FoamLink 1603H	17.04.2003			
Venture Tape	VG132, VG116, VG108, VG1316 (Security Glazing Tape)	22.04.2003	www.venturetape. com	UK +44 (0) 1327 876555	

2. Wet Glazing System Materials - Residential and Commercial Applications



Please Note: If there is a straightforward pathway for water run-off between the caulking and the Pilkington Activ™ surface, the caulking material used should NOT be silicone. Alternatives include Silicone hybrids, MS Polymers and polyurethanes.

2.1 Wet Glazing Sealants – SCG TEC

SCG-TEC based sealants have been specifically developed for use with Self Cleaning Glass. These products offer improved UV resistance and durability compared with MS Polymer based sealants and are certified to external standards (e.g. ISO 11600, further details are available from the individual sealant suppliers).

As with all approved sealants these materials have been tested for compatibility with Pilkington Activ™. These sealants are suitable for both residential and commercial applications. As with all sealant applications, checks with the sealant supplier that the material is suitable for the intended application should be undertaken.

Note. Henkel have withdrawn their SCG TEC sealant, which is no longer commercially available.

Use	Supplier	Product Name	Date Tested	Website	Telephone
Residential/ Commercial Sealant	ATE Distribution	Sealclean	1.11.2008		France +33 145 60 43 14
Residential/ Commercial Sealant	Geocel	Geocel 920	01.03.2010	www.geocel.co.uk	UK +44 1752 334 350
Residential/ Commercial Sealant	Merz and Benteli AG	Gomastit VG27	10.10.2006	www.merz- benteli.ch	CH +41 31 980 48 48
Residential/ Commercial Sealant		Merbenit UV27	01.03.2010		(Fax +41 31 980 48 49)
Residential/ Commercial Sealant	Soudal	SMX 505	31.05.2005	www.soudal.com	UK +44 1827 261092
Residential/ Commercial Sealant	Soudal	SMX 506 ISO 11600 20LM	01.04.2010	www.soudal.com	UK +44 1827 261 092

2.2 Wet Glazing Sealants – MS/Hybrid Technology

MS Polymer / Hybrid based sealants have been tested for compatibility with Pilkington Activ™. Suitability of these sealants for the intended application must be discussed with the individual manufacturer.

Use	Supplier	Product Name	Date Tested	Website	Telephone
Residential / Industrial Sealant	Adfast	Adseal DWSP 1943 hybrid	22.07.2020	www.adfastcorp.com	CAN +514 337 7534
Residential Sealant	Adolf WÜRth GmbH & Co. KG	WÜRth Sabesto Aktivglas Dichtstoff	10.10.2006		Adolf WÜRth GmbH & Co KG Kunzelsau, Germany
Residential Sealant	AKEMI GmbH	Quick Sealfix	22.06.2014	www.akemi.com	Germany +49 911 642960 (Contact: Josef Schoeffi)
Residential Sealant	DANA LIM A	Industrial Sealer 555 PF + Combi Flex 524	29.09.2020	www.danalim.com	DANA LIM A/S - KØBENHAVNSVEJ 220 - DK-4600 KØGE – Denmark info@danalim.com DK (+45) 56 64 00 70 Technical Services (+45) 56 64 00 75
Industrial Sealant		Danaseal Interior Sealer 521			
Residential Sealant	Den Braven	Hybriseal 2PS (also known as Hercuseal 305) NB. Coloured versions - white, black, grey and brown only.	03.01.2003	www.denbraven.nl	Netherlands +31 162 49 1000 Belgium +32 2 358 3556 Germany +49 5481 941510 Poland +48 618 143504 Greece +30 1 765 1365 Austria +43 263 341 399 Italy +390 461 534 388 UK (Siraflex) +44 1226 771600 France +33 3 44 91 68 68 Denmark +45 755 81230 Finland +358 201 980610
Residential Sealant	EGO	EGO MS808	01.07.2006	www.ego.de	EGO Dichtstoffwerke GmbH & Co. KG, Lilienthalstrasse 7,82205 Gilching Germany +49 08105 217-0
Residential Sealant	Fenotherm	Fenotherm MS Sealant	01.11.2008		Fa. Fenoplast Fügetchnik GmbH
Residential Sealant	Henkel AG & Co. KGaA	Terson MS 9399	18.01.2017	www.henkel.com	Germany +49 211 797 0

Residential Sealant	KENT (Premier Industrial Ltd)	KENT Rotabond 2000 with KENT MS Prep Primer	01.05.2001	www.kenturope.com	Belgium +32 (0)2 725 93 93 Denmark +45 4917 7888 France +33 1 30 95 40 60 Germany +49 02154 956736 Italy Free on 800 011 780 or +39 011 64 77 311 Netherlands +31 499 331919 Spain +34 91 883 50 54 Sweden +46 44 700 51 UK +44 1403 213349 KENT Distributors: Austria (Hubert Pokorny GmbH-) +43 2236 64939 Croatia (Pobus d.o.o) +385 513 323906 Estonia (Ou Kevamer Av) + 372 44 25 892 Finland (Jasper Oy) +35 833 450 580 Norway (C Frimann-Dahl AS) +47 22 51 17 00 Poland (Luna Polska sp. z o.o) + 48 32 208 6541 Slovenia (AT Team D.o.o) +386 15193333 Switzerland (Halco Trade) +41 14 348040
Residential Sealant	Ramsauer GmbH	Glasdicht 300	6.2008	www.ramsauer.at	Austria +43 6135 8205 - 0
Residential Sealant	Selena FM S.A. Poland	Sealant MS Cristal 131276 (QMS 320)	11.2012	www.selena.com	PL +48 71 78 38 290
Residential Sealant	Sika Schweiz AG	Sikasil WS-680 S.C.	4.201	www.che.sika.com	CH +41 56 649 31 11
Residential Sealant	Soudal	Soudaseal 4 all paint	01.01.2005	www.soudal.com	UK +44 1827 261092
Residential Sealant	Tremcoillbruck	Perennator SC805 MS580	4.201	www.tremco-illbruck.com	DE +49 2203/57550-0 (Fax +49 2203/57550-90)
Residential Sealant	tremco illbruck	Illbruck SP 030 (adhesive/sealant - SP polymer technology)	01.06.2016	www.tremco-illbruck.com	UK e: richard.willetts@tremco-illbruck.com
Residential Sealant	tremco illbruck	Illbruck SP 525 (low modulus sealant - SP polymer technology)	01.06.2016	www.tremco-illbruck.com	UK e: richard.willetts@tremco-illbruck.com
Residential Sealant	Ultraframe	ADV007	6.2008	www.ultraframe-conservatories.co.uk	UK +44 01200 443311 (Fax: +44 0870 414020)

2.3 Tapes and Adhesives

Use	Supplier	Product Name	Date Tested	Website	Telephone
Glass Adhesives	Bostik	Bostik Hybrid 2640	25.02.2003	www.bostik.com	Austria +43 5425 801-0; Belgium +32 2 370 20 62; Denmark +45 448 41 500; France +33 1 64 42 12 12; Germany +49 69 8900 10; Ireland +353 1840 14 61; Italy +390 2 24 10 93 1; Netherlands +31 165 590 590; Spain +34(93)586 0203; Switzerland +41 5425 801-0; UK +44 116 251 0015
			04.05.2004		
			25.02.2003		
			04.05.2004		
		Bostik Hybrid 2620			
Uretan 2637					
		Glasil Super			
Georgian Bar Tape	illbruck Sealant Systems UK	Alfas GBT General Bonding Tape	10.06.2003	www.illbruck.com	UK +44 (0)191 419 0505
		Alfas FAT Foamed Acrylic Tape	10.06.2003		
Tape	tremco illbruck	illbruck ME 402 Compriband Ali-Tape PB (sealant tape)	09.06.2016	www.tremco-illbruck.com	UK e: richard.willetts@tremco-illbruck.com
		illbruck ME 403 Butyl Band (sealant tape / filler)			
		illbruck ME 407 Butyl Tape NT			
Tape	Kent Industrial	Butyl HT Ivory	10.10.2006	www.kenturope.com	Belgium +32 2 725 93 93; Denmark +45 4917 7888; France +33 1 30 95 40 60; Germany +49 02154 956736; Italy Free on 800 011 780; Netherlands +31 499 331919; Spain +34 91 883 50 54; Sweden +46 44 700 51; UK +44 1403 213349
Protective tape	Scapa	Scapa 2903 low-tack protection tape	06.06.2009	www.scapa.com	UK +44 161 3017400
Georgian Bar Tape	Shand Higson	5300	17.04.2003	www.shandhigson.co.uk	UK +44 151 207 5661
Glass Adhesives	Sika	Sikaflex 11FC	25.02.2003	www.sika.co.uk	UK + 44 1707 39 44 44
		Sikafast 5215	24.02.2003		
Georgian Bar Tape	Technibond	Technibond double sided tape	27.06.2002	www.technibond.co.uk	UK +44 1628 642800

Glass Adhesives	Würth	Zebra MS Polymer Adhesive	25.02.2003	www.wurth.com	Austria +43 2743 70700; Belgium +32 14 445566; Denmark +45 79 323232; Finland +358 19 7701; France +33 3 88645300; Germany +49 7940 15-0; Ireland +353 61 412911; Italy +39 0471 828111; Netherlands +31 73 6291911; Norway +47 67 062500; Poland +48 22 8119041; Sweden +46 19 351000; Switzerland +41 61 7059111; UK +44 (0)1483 412800
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Note - Glass adhesives are not glazing sealants

2.4 Caulking Materials

Please Note: If there is a straightforward pathway for water run-off between the silicone caulking and the Pilkington **Activ™** surface, the caulking material should NOT be silicone. Alternatives include MS Polymers and polyurethanes. The product listed below has been tested and is compatible with Pilkington **Activ™** as a sealant to be used between window frame and brickwork, concrete or cladding material. To mount the glass into a window frame, other sealant types are available. Further details on application suitability is available from the supplier.

Product Type	Supplier	Product Name	Date Tested	Website	Telephone
MS Polymer	Soudal	Soudaseal 215LM	11.03.2004	www.soudal.be	Belgium +32 14 42 42 31
MS Polymer	Würth Denmark	MS20 Multifuge	1.7.2007	www.wuerth.dk	Denmark +45 79 323 242

3.0 Commercial Glazing Systems

Supplier	Gasket Name	System Name	Date Tested	Website	Telephone
DRL	Grey Silicone Gasket	DRL Curtain Wall	23.05.2003	www.oskomera.nl/DR	UK +44 1684 853500
Heywood Williams	1 broad, 1 narrow, Aluminium gaskets	Series 23 Commercial Window Systems, Series 24 Commercial Window Systems, Series 48 Curtain Walling Systems. Modular 70 Sloping Roof Glazing System.	07.03.2003	www.heywoodwilliams.com	UK +44 1484 487200
Kawneer	953-272 (R5961)	1202 curtain wall, 1203 Slope glazing, and 1612 curtain wall systems.	20.03.2003	www.kawneereurope.com www.alcoa.com	France + 33 (4)67 87 77 55; Germany + 49 2374 936 0; Ireland + 353 1 450 8809; Netherlands + 31 (0)341 464611; UK + 44 (0)1928 502500; USA +1 770 449-5555
	271-921		01.04.2005		
	953-273 (R5960)		20.03.2003		
Rehau	Rehau Weldable dry gasket (possibly known as Rauprene)		07.03.2003	www.rehau.com	Benelux, Denmark, Finland, Norway, Sweden: 09131 925 392; Switzerland: 09131 925 483; France: +33 38 70 55 807; UK: +44 19 89 762641; Poland: +48 618 49 8451
Santoprene	691-62W221 (beige)	For aluminium and wooden windows	22.05.2003	www.santoprene.com	France +33 1 41 457720; Germany +49 221 74907-0; Italy +39 02 8803452; Poland +48 22 6063972; Spain +34 936 002 150; Sweden +46-31-63-82-90; UK +44 1162 896122
	8691-58W805 (range of light colours)		22.05.2003		
	8221-60 (white)		22.05.2003		
	8221-70 (white)		22.05.2003		
Sapa	TPE non-lubricated gasket	W274E	01.04.2005	www.sapagroup.com/ uk/buildingsystems	
	TPE non - Lubricated	105/87, 105/88, 105/89, 105/90, 105/91, 105/135. 105/140, 105/166	01.08.2005		
	TPR	Gasket ref. RG110	Oct-06		

Schüco	224 063 (with yellow stripe)	Window systems: Royal S 45, 50, 50N, 65, 65AK, 70B and 70BS	07.03.2003	www.schueco.de	Germany +49 5 21 7830;
	224 606	Curtain Walling systems: FW50 ⁺ , FW60 ⁺ , FW50 ⁺ .1, FW60 ⁺ .1	07.03.2003		UK +44 1908 282 111
Schüco can offer alternative lubricants with their systems. To avoid misunderstandings please note on your order that you want to use Pilkington Activ™.					
Technal Viking	FX607G	Fxi Casement Window Suite: FXi 46, FXi 52, FXi 65	07.03.2003	www.technal.co.uk	UK +44 113 2961400
	MC6906	MC Curtain Wall range (fully framed systems)	07.03.2003		
	MC6906	MC Curtain Wall range (fully framed systems)	07.03.2003		

All of the lubricated gaskets have been tested for compatibility with Pilkington Activ™ in the vertical orientation. Some of the gaskets that are lubricated with a silicone emulsion have occasionally shown very low levels of leaching (<2 cm). However, due to the longer residence time of water on the gasket, there is the potential for an increased level of leaching if these same gaskets used in sloped glazing.

Under no circumstances should extra lubricant be used during installation.

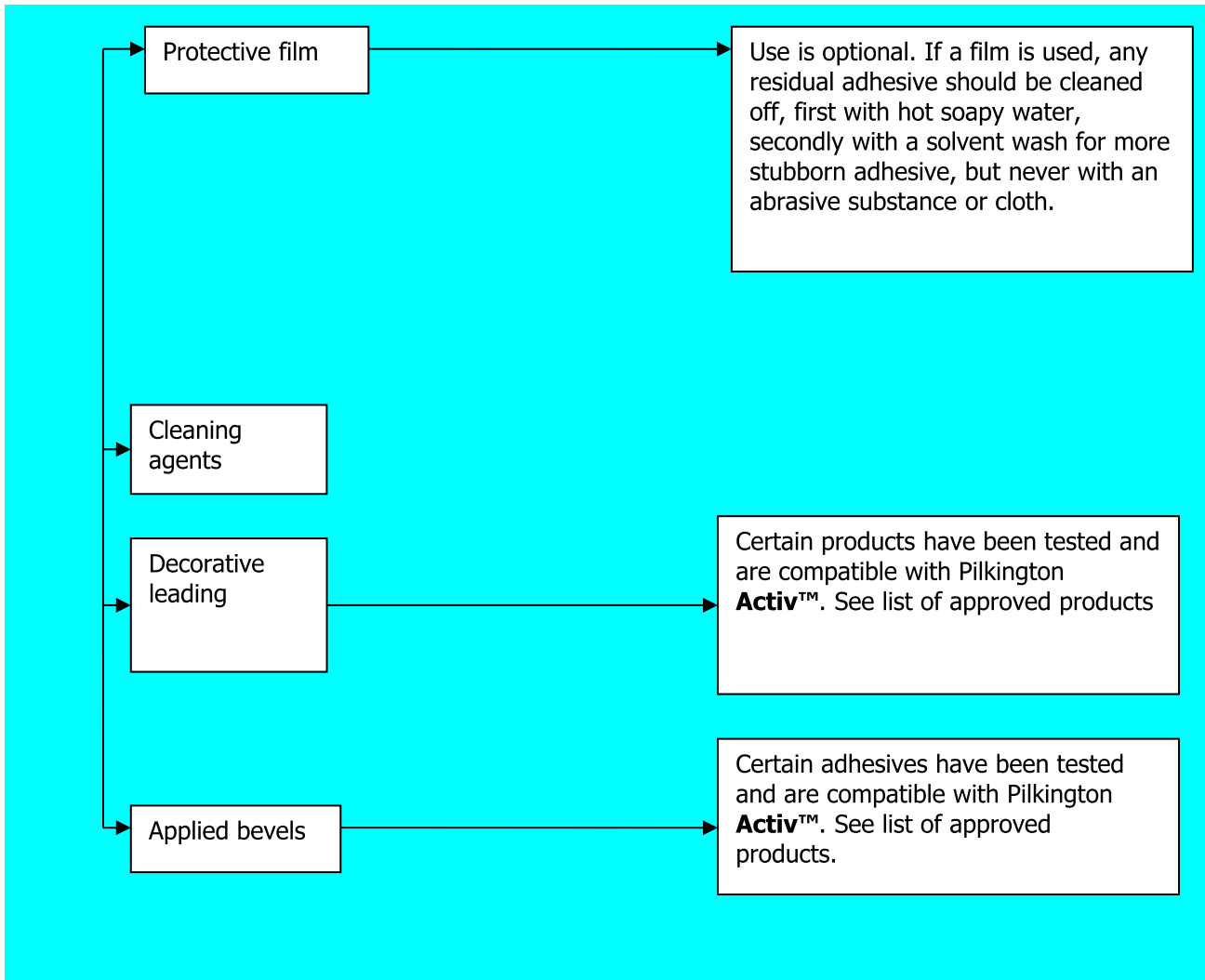
Please check with your supplier to ensure gaskets lubricated with silicone emulsion are NOT used in sloped installations.

In addition to the above specific systems, there are a number of suppliers who can supply non-silicone based gaskets, if they are specifically requested. This service is available from the German offices but can be discussed with your local representative. Please put on the order "Non-silicone gaskets required for use with Pilkington Activ™."

These suppliers are listed below, along with their contact phone number in Germany.

Supplier	Website	Telephone
Aluplast	www.aluplast.de	+49 (0) 7243 7742421
Brüggmann	www.brueggmann.de	+49 (0) 8245 520
Gealan	www.gealan.com	+49 (0) 9286 774130
Gutmann	www.gutmann-aluminium.de	+49 (0) 9141 992621
		+49 (0) 9194 992622
Heroal	www.heroal.de	+49 (0) 5246 507238
Hueck/Hartmann	www.eduard-hueck.de	+49 (0) 2351 1510
Klima Flex	www.klimaflex.de	+49 (0) 7171-97614-59
Kömmerling, KBE, Trocal (Profine)	www.profine-group.com	+49 (0) 6331 562598
Raico	www.raico.de	+49 (0) 8265-911-0
Rehau	www.rehau.com	+49 (0) 9131 925628
Reynaers	www.reynaers.com	+49 (0) 2043 96400
Salamander	www.brueggmann.de	+49 (0) 8245 520
Schüco	www.schueco.de	+49 (0) 521 783864
Solarlux	www.solarlux.com/	+49 (0) 5402-400-0
Sykon	www.sykon.de	+49 (0) 5223-9818-18
TS Aluminium	www.ts-alu.de/	+49 (0) 4943-9191-1
Veka	www.veka.de	+49 (0) 2526 294690
		+49 (0) 2526 294620
Wicona	www.wicona.de	+49 (0) 731 3984174

4. Miscellaneous



4.1 Protective Films

Supplier	Product Name	Date Tested	Website	Telephone
Forstner Glass	Protective film ECO coat	4.2012	www.forstnerglass.com	Austria: +43 676 411 7011
Nava Center Oy	Navaflex 15-1	01.12.2002	www.navacenter.com	Finland +358 8 443 596
Nitto	AP4058RL	01.12.2002	www.nittoeurope.com	France +33 297 46 92 00 (MEI)
Novacel	4331	01.03.2005	www.novacel.fr	UK +441582 583294
Shand Higson	2903	17.04.2003	www.shandhigson.co.uk	UK +44 151 207 5661
Spraylat	Glasstrip UV Resist PC100	01.12.2004	www.spraylat.co.uk	UK +44 1536 408409
	Glasstrip 785-3	01.01.2006		
White Mango Enterprises	PAW 55	01.06.2003	www.whitemango.com	UK +44 20 8861 9486
Many have been tested, and in general any film with an acrylic adhesive should be compatible.				

4.2 Leading/Bevels

Supplier	Product Name	Date Tested	Website	Telephone
Regalead	Natural 9mm Oval Antique 9mm Oval	26.02.2003	www.regalead.co.uk	UK +44 161 946 1164
Decra Led	any lead applied with the adhesives listed below	01.03.2004	www.decraled.co.uk	Poland +48 55 235 19 25; UK +44 161 368 4491; USA +1 608 742 8386
	Premium Lead Strip Adhesive	01.03.2004		
	Alpha Lead Strip Adhesive	01.03.2004		
	Hi-Tac Lead Strip Adhesive	01.03.2004		
Regalead	RB 334 bevel. Applied by UVTek 410 Visible Light Curing	26.02.2003	www.regalead.co.uk	UK +44 161 946 1164
	RB 334 bevel. Applied by UVTek FC 700 UV Curing	26.02.2003		
	RB 334 bevel applied by UVTek 116 UV Curing	26.02.2003		
Decra Led	Permabond	01.03.2004	www.decraled.co.uk	Poland +48 55 235 19 25; UK +44 161 368 4491; USA +1 608 742 8386
Remco Chemie	Remcolin Siebreiniger Screen Print Cleaner	01.12.2002		Germany +49 62 216 4850

4.3 Specialist Processing

Product Type	Supplier	Contact	Website	Telephone
Curved Toughened, Concave & convex, Single & IGU	Toughglass	emmanuelb@toughglass.com	www.toughglass.com	UK + 44 (0)28 4176 0918; ROI + 353 (0)1 466 2560; Export + 353 (0) 86 386 2366
Sag Bending, toughened	Novaglaze	sales@novaglaze.co.uk	www.novaglaze.co.uk	UK +44 (0)845-850-2363
Sag Bending, annealed	Jean Gobba	jean.gobba@gobba.com	www.gobba.com	France +33 4 74 05 98 00
Curved Glass	FINIGLAS Veredelung s GmbH	info@finiglas.de	www.finiglas.de	Germany: 00492594/78905-0 UK: +44(0)333 8000 005

4.4 List of Approved Cleaning Agents

Supplier and brandname
3M Scotch-Weld cleaner spray
Ajax 3-Fach Aktiv
Ajax Antistatic
Ajax Citrofrisch
Ajax Fete Des Fleurs
Ajax Glass Universal Double Action
Ajax Glasrein Zitro-Frisch
Ajax Kristall
Ajax Streak Free Professional Glass Cleaner
Ajax Tip-Top
Ajax Window Cleaner
Bluesky glass cleaner
Bluesky Sky Shield
Bohle Glasreiniger BO 5107800
Caramba Glasscleaner Foam
CIF Window Wipes
Cleani Glass Universal
Cosmofen 10 and 20 (with water rinse)
Decra Clean
Denk Mit Glasreiniger
Domol Glasklar
Elite Force 2000 UPVC Cleaner
Elite Force Extra Strength
Ettore Squeegee Off (concentrate)
Fenosol S10 (For PVC)
Frosch Spiritus Glas-Reiniger
Graffiti Wipes (Ritec International)
Gunge Wipes (Ritec International)
HG Glazen Glazen Wasser, HG le lave vitre des Pros
HG window cleaner, HG Fensterputzer
Innotec Easy Clean
Kent Glas Kleen 40-1 Superkonzentrat
Kent Glas Kleen Netoiie Vitres
Kent Rotanium Soft Surface Cleaner (article No. 83950)
Kent Surface Cleaner (article No: 83926)
Kristall Fenster
Mr Muscle Window Cleaner
Nationwide Glass Cleaner
Nova Window Cleaner
Ritec Glass Cleaner
<u>Sidolin</u>
<u>Brand names of Sidolin cleaners from Henkel:</u>
~ Sidolin 2 Phasen (DE)
~ Sidolin Streifenfrei Aktivschaum (DE)
~ Sidolin Streifenfrei Cristal (DE)
~ Sidolin Streifenfrei Zitrus-Frisch (DE)
~ Instanet Ruiten / Instanet Ruiten Citron (B, NL)
~ Clin Windows / Clin Universal (Austria, Eastern Europe)
~ Bref Vitre / Bref Vitre Citron (F)
~ Bref Multiuso (IT)
~ Tenn Crystales e Superficies / Tenn Multiusos (S)
~ Sonasol Vidros / Sonasol Vidos e Superficies (Pt)
~ Sidolin Christal

~ Sidolin Zitrus
Safeway Vecta Window Cleaner
Spontex Glass Wipes
Spray Clean Glass Universal
Sure Chemicals Ltd
- Premier Exterior Cleaner (Purple)
<i>Product code: SF THO 03</i>
- Premier Exterior Cleaner (Red)
<i>Product code: SO24</i>
- Premier Interior Cleaner
Product code: SF THO 02
[1 part cleaner to 20 parts water]
- Acidic Glass Cleaner 584 / 585
UVTek Professional Glass Cleaner
Wilko Window Cleaner
<u>Würth Cleaners</u>
Active glass cleaner (No. 890.25)
Ready diluted glass cleaner (No. 892.332.840)
Cleaner Type 10 (No. 892.100.10)
Cleaner Type 20 (No. 892.100.11)
Available from:-
<i>Winzer Würth Industrial Ltd, Catteshall Lane, Godalming, Surrey, GU7 1NP</i>
<i>Tel; 01483 412800 Fax; 01483 412805</i>
<i>E-mail; sales@winzerwurth.co.uk</i>
Zack Glasreiniger

IMPORTANT NOTICE

The use of silicone removers / abrasive cleaners on Pilkington **Activ™** is considered as a remedial action which should only be undertaken after consultation with the NSG Group Technical Advisory Service. Due to the nature of these materials, work should only be undertaken after reading the manufacturers' relevant safety literature. NSG Group cannot guarantee the effectiveness of the treatment or the effect the treatment will have on the coating as this will be severely affected by factors outside NSG Group's control, for example the nature and amount of the deposit.

The use of silicone eaters will not solve the problem if the original source of contamination is still present.

Di Aqua Forte Silicone Eater

Radora Brilliant Fensterglanz – Slightly Abrasive - Contact: Klaus Messmer + 497531 7 71 36

5. Available Products with Pilkington Activ™

5.1 Pilkington Activ™ - product range

Pilkington **Activ™** Clear – **4 mm, 6 mm, 8 mm, 10 mm**

Pilkington **Activ™** Blue – **4 mm, 6 mm**

Pilkington **Activ Suncool™** 71/39 – **6 mm, 8 mm (10 mm upon request)**

Pilkington **Activ Suncool™** 70/40 – **6 mm, 8 mm (10 mm upon request)**

Pilkington **Activ Suncool™** 70/35 – **6 mm, 8 mm (10 mm upon request)**

Pilkington **Activ Suncool™** 66/33 – **6 mm, 8 mm (10 mm upon request)**

Pilkington **Activ Suncool™** 61/34 T – **6 mm, 8 mm**

Pilkington **Activ Suncool™** Grey 61/32 – **6 mm, 8 mm (10 mm upon request)**

Pilkington **Activ Suncool™** 60/31 – **6 mm, 8 mm (10 mm upon request)**

Pilkington **Activ Suncool™** 50/25 – **6 mm, 8 mm (10 mm upon request)**

Pilkington **Activ Suncool™** Blue 50/27 – **6 mm, 8 mm (10 mm upon request)**

Pilkington **Activ Suncool™** Silver 50/30 – **6 mm, 8 mm (10 mm upon request)**

Pilkington **Activ Suncool™** 45/27 T – **6 mm, 8 mm**

Pilkington **Activ Suncool™** 40/22 – **6 mm, 8 mm (10 mm upon request)**

Pilkington **Activ Suncool™** 30/17 – **6 mm, 8 mm (10 mm upon request)**

Pilkington **Activ Suncool™** 30/16 – **6 mm, 8 mm (10 mm upon request)**

Pilkington **Activ SunShade™** Blue – **4 mm, 6 mm**

Pilkington **Activ SunShade™** Neutral – **4 mm, 6 mm**

Pilkington **Activ Optitherm™** S3 - **various thicknesses from 4 to 10 mm**

Pilkington **Activ Optilam™** - **various thicknesses and interlayers from 8.8 – 12.8**

Pilkington **Activ Suncool Optilam™** - **coatings and thicknesses as above**

Pilkington **Activ Optilam™** Therm S3 - **various thicknesses and interlayers from 8.8 – 12.8**

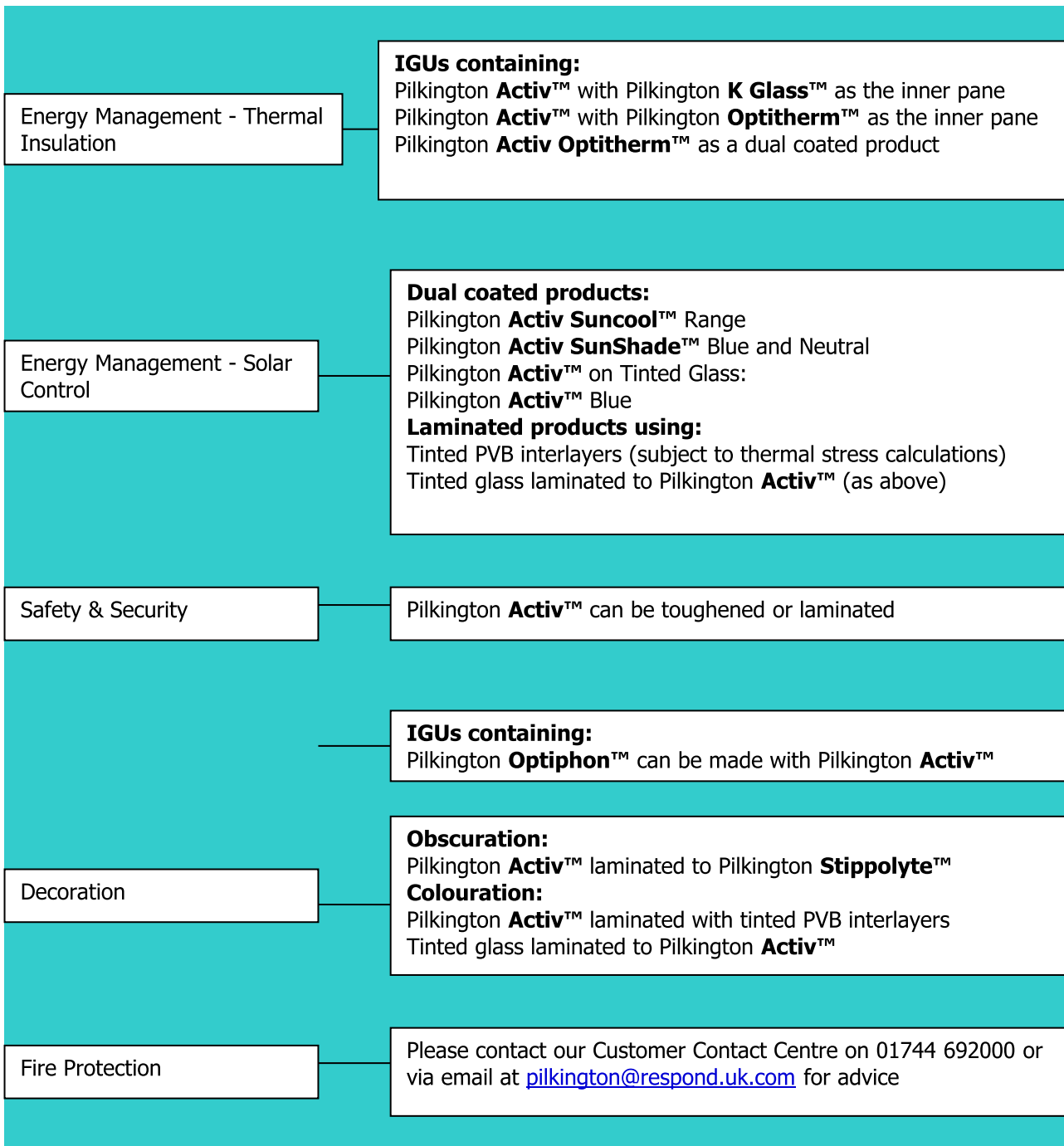
Pilkington **Activ Optiphon™** - **various thicknesses and interlayers from 8.8 – 12.8**

Pilkington **Activ Optilam K Glass™** - **various thicknesses and interlayers from 8.8 – 12.8**

[Note. For more information about products: www.pilkington.com](http://www.pilkington.com)

5.2 Possible Combinations

It is possible to combine Pilkington **Activ™** with other products to obtain additional benefits. Please contact your IGU supplier.



This publication provides only a general description of the products. Further, more detailed, information may be obtained from your local supplier of Pilkington products. It is the responsibility of the user to ensure that the use of these products is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington, "Activ", "Suncool", "SunShade", "Optitherm", "Optilam", "Optiphon", "K Glass" and "Stippolyte" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.



CE marking confirms that a product complies with its relevant harmonised European Norm.
The Declaration of Performance for each product, including declared values, can be found at www.pilkington.com/CE



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