VEER ALUMINIUM

VEER ALUMINIUM

BUILDING & CONSTRUCTION PROFILE CATALOGUE

www.veeraluminium.com

info@veeraluminium.com

010 054 9842

Temper	Description	Applications
T1	Naturally aged after solution heat treatment	Suitable for applications necessitating moderate strength, emphasizing formability, and corrosion resistance.
T4	Solution heat-treated and naturally aged	Offers enhanced formability with superior properties compared to F or O conditions. Applied in various industries.
T6	Solution heat-treated and artificially aged	Employed in applications where the utmost mechanical properties are imperative.

The alloys 6063, 6005, and 6061 exhibit various temper conditions, each tailored to meet specific requirements in diverse applications.

Extrusion Alloy Offered and Summary:

Alloy	Temper	6063	6005	6061
Description	-	Suited for intricate sections with medium strength. Exhibits excellent formability in both "T4" and "T1" conditions. Possesses high corrosion resistance and achieves a commendable surface finish.	A medium-strength alloy characterized by good extrudability, making it suitable for intricate shapes and profiles. This alloy is well-suited for applications where a balance between strength and formability is essential.	A versatile alloy designed for general-purpose structural applications. Demonstrates good mechanical properties, corrosion resistance, and weldability.
Strength	-	Medium	Medium - High	High
Finishing Response	-	Excellent	Good	Good
Yield strength, (MPa)	T4	95	70	145
	T6	225	260	275
Tensile strength, (MPa)	T4	190	160	220
	T6	250	285	310
Elongation, A5 %	T4	24	22	20
	T6	10	8	10
Brinell Hardness, HB	T4	47	47	65
	T6	81	92	100

Alloy	Temper	6063	6005	6061
Density (kg/m^{2})	-	2 700	2 700	2 700
Young's Modulus (MPa)	-	69 000	69 000	69 000
Coefficient of expansion 20-100 °C (x10-6 / °C)	-	23	23	24
Thermal conductivity 20 °C (W/mK)	-	200	200	180
Electrical conductivity % IACS	-	52	52	46
Melting Point (°C)	-	600-655	615-655	580-650
Common Application	-	Utilized in the construction of architectural components like window frames and shop-fitting designs. Also employed in the manufacturing of irrigation tubes, demonstrating versatility for general-purpose use.	Ladders and design applications that demand properties falling between those of 6063 and 6061.	Applied in a diverse range of structural applications, including road and rail transport, mine cages, cranes, bridges, towers, roof trusses, and more.

Extrusion Alloy Offered and Summary:

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35	0.10	0.10	0.45 - 0.90	0.10	0.10	0.10
6005	0.6 0 - 0.90	0.35	0.10	0.10	0.40 - 0.60	0.10	0.10	0.10
6061	0.40 - 0.80	0.40	0.15 - 0.40	0.20 - 0.35	0.70 - 1.00	0.10	0.20	0.20

Note:

- Aluminium (Al) constitutes the remaining portion.
- All values represent maximum limits unless specified otherwise.
- The material adheres to multiple international standards.

Quality System and Accreditations:

- Veer Aluminium Extrusions operates a quality management system accredited to ISO 9001:2008, adhering to dimensional tolerances outlined in EN 755.
- This system enables comprehensive quality management, starting from the initial contract review to the final product shipment. Our laboratory facilities are equipped to support quality assurance and conduct essential metallurgical testing.
- Veer Aluminium Extrusions proudly holds the esteemed ISO 14001:2004 Environmental Management Systems accreditation, demonstrating our commitment to environmental stewardship. We actively promote the recycling of aluminium and responsibly manage other process waste, reflecting our dedication to sustainable practices.

Standard Terms:

- The minimum order quantity for any die/profile is 250 kg.
- Extrusions are typically offered in lengths ranging from 3000 mm to 8000 mm. For lengths outside this specified range, custom manufacturing is available but is subject to inquiry and surcharge.
- Standard packing methods will be applied unless otherwise stated in the order.
- Unless specified otherwise, there is a mass or piece quantity tolerance of ±10%.
- Exact quantities or tighter shipping tolerances are subject to inquiry and a price premium.
- If over-shipment is impermissible, kindly specify "Do not over-ship mass" (or "Pieces" as applicable), allowing for a 10% under-shipment tolerance.
- Clearly articulate any special requirements in your orders.
- Orders below this quantity are subject to inquiry, stock availability and a quantity surcharge may apply.
- Masses provided in this catalogue are indicative and may vary based on alloy and dimensional accuracy.

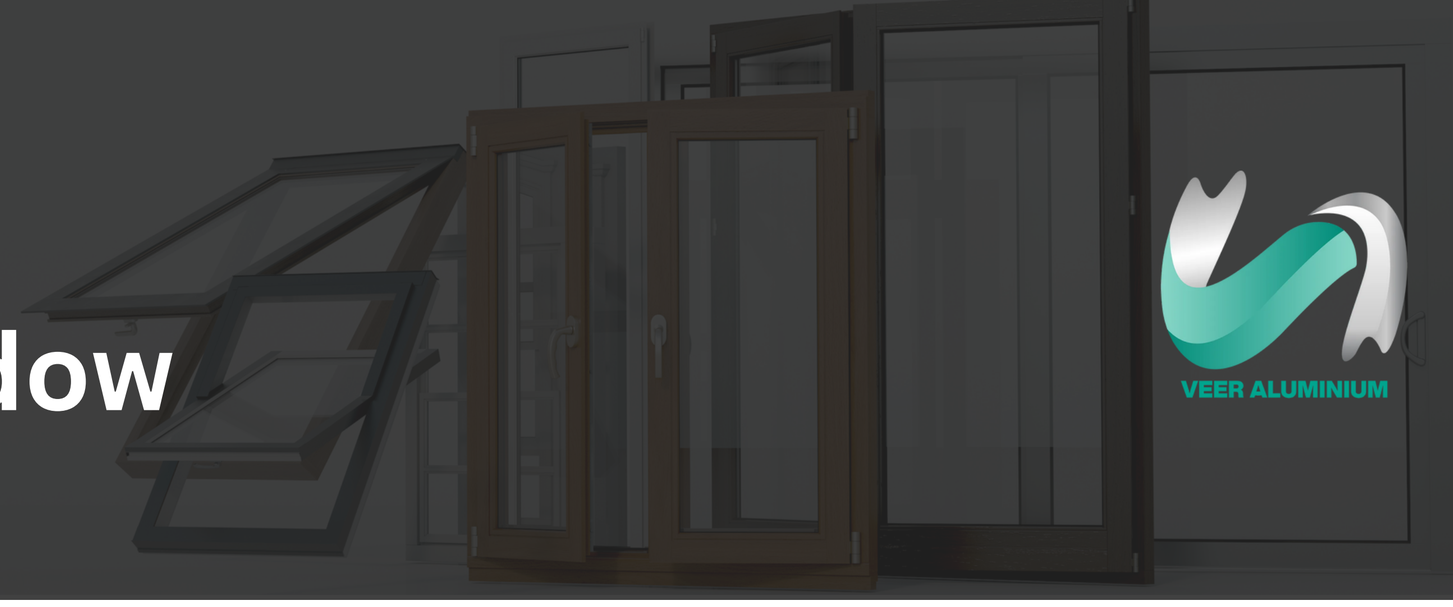
Important things to include in Order:

We take pride in offering customized extrusion profiles and follow a highly professional approach to each project. Our team works closely with clients to understand their unique requirements and generate tailored solutions that meet their needs. The process for custom extrusion profiles includes:

- Clients can provide a physical sample, prototype, or drawing of the profile they require. We use this to conduct a feasibility analysis and review commercial tolerances and specific product requirements.
- We provide a detailed quotation for the tooling and extrusion supply, which is subject to approval by the client.
- Following approval by the client, we manufacture the tooling based on the agreed-upon conditions between us and the client.
- After tooling manufacturing, we extrude the profiles and create samples that we present to the client for their approval.
- Prior to delivering the sample to the client, we conduct quality control tests to confirm that the product meets the agreed dimensions and standards.
- Upon approval of the test profile by the customer, we proceed with mass production of the required aluminium profiles.
- Our commitment to quality and attention to detail ensures that our customers receive high-quality customized profiles that meet their specifications and expectations.

Building and Construction

Casement Window



VEER ALUMINIUM

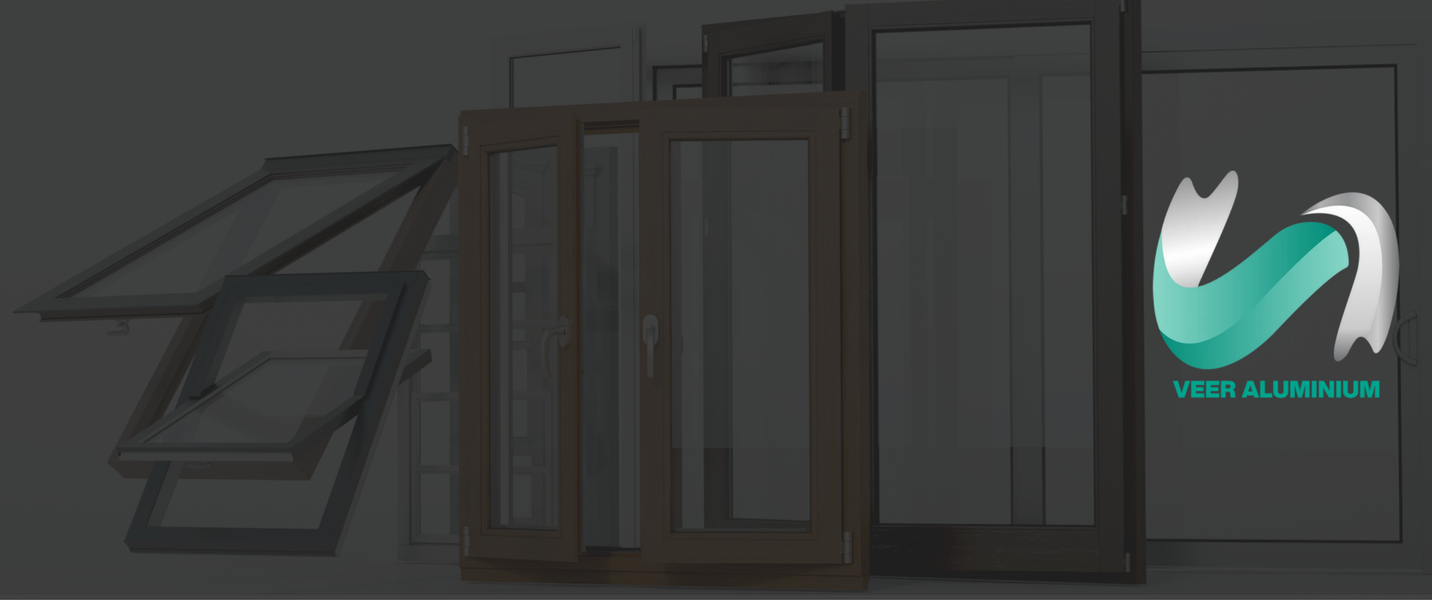
Profile	Description	kg/m	Perimeter	CCD
V40003	28 CASEMENT EQUAL LEG	0.448	264.162	54
V40001	28 CASEMENT GLAZING BEAD	0.158	107.384	27
VH4003	28 CASEMENT MULLION	0.614	231.435	60
VH4002	28 CASEMENT SASH	0.451	193.915	54
V40008	30.5 CASEMENT EQUAL LEG	0.453	271.047	57
V40010	30.5 CASEMENT GLAZING BEAD	0.185	119.089	29
VH4006	30.5 CASEMENT SASH	0.487	200.431	57
VH4010	34 CASEMENT COUPLING MULLION	0.568	170.568	56
V40011	34 CASEMENT EQUAL LEG	0.559	276.568	56
V40013	34 CASEMENT FIXING LUG	0.624	233.583	81
V40012	34 CASEMENT GLAZING BEAD	0.173	109.762	29
VH4011	34 CASEMENT HIGH RISE MULLION	1.178	323.343	74
VH4009	34 CASEMENT MULLION	0.775	252.941	60
VH4008	34 CASEMENT SASH	0.596	220.495	57
V40002	CORNER CLEAT	0.720	172.328	60
V40095	CORNER CLEAT	0.627	231.631	55
V40217	CORNER CLEAT - OSBORN	0.751	193.230	55
V40004	MULTI FIXING LUG	0.489	238.945	93
V40009	TWIST LUG	0.558	205.278	67
MV40047	28 CASEMENT EQUAL LEG	0.428	263.524	54
MV40052	28 CASEMENT GLAZING BEAD (4mm)	0.152	106.433	27
MVH4059	28 CASEMENT MULLION	0.613	231.000	60
MV40149	28 CASEMENT MULTI GLAZING BEAD	0.159	112.450	27
MVH4064	28 CASEMENT TUBULAR SASH	0.442	193.219	54

All the dimensions are in millimeters
All the profiles are manufactured as per BS EN 755 unless specified

www.veeraluminium.com | +27 11 908 9440 | info@veeraluminium.com

Building and Construction

Shopfronts



Profile	Description	kg/m	Perimeter	CCD
V40201	26B ADAPTER	0.326	156.300	46
VH4181	26B MULLION DOUBLE LIP W/PILE	1.283	319.475	81
VH4170	60MM SPIGOT	0.814	214.350	64
V40202	ASTRAGAL W/P	0.265	135.474	50
VH4034	SF44-26 75mm MULLION	0.969	296.348	81
VH4032	SF44-26B 75mm RECESSED BACK	0.912	270.740	81
VH4038	SF44-26B RECESSED BACK W/PILE	0.941	280.849	81
VH4044	SF44-26B SPIGOT (DOGGY BONE)	0.880	186.323	66
VH4033	SF44-26D 75mm JAMB RECESSED BACK NO LIP	0.944	244.395	81
VH4040	SF44-26E FLAT BACK	0.991	252.745	81
V40023	SF44-45 ANGLE GLAZING BEAD	0.128	92.159	23
VH4097	SF44-DOOR SLAT (HOLLOW)	0.774	301.515	127
V40025	SF44-DOOR SPIGOT	0.418	175.492	42
VH4046	SF44-MID RAIL GLAZING BAR	0.829	234.148	64
VH4021	SF44-R1 45mm DOOR JAMB	0.809	219.654	71
VH4024	SF44-R11 60mm DOOR JAMB	0.893	249.635	84
VH4023	SF44-R11 60mm DOOR STILE W/PILE	0.946	269.204	85
VH4027	SF44-R11 SPL 60mm D/STL WITH LIP	1.073	297.625	101
VH4096	SF44-R12 SPECIAL	0.888	250.996	82
VH4066	SF44-R12 SPECIAL W/PILE	0.906	267.625	86
V40026	SF44-R19 SPECIAL DOOR SLAT	0.550	284.625	116
VH4022	SF44-R3SP 45mm DOOR JAMB W/PILE	0.824	239.204	72
VH4065	SF44-R3SP 45mm DOOR JAMB W/PILE	0.784	239.204	72
VH4029	SF44-R4 85mm HEAD/SILL RAIL	1.118	352.690	108
V40024	SF44-R4 FILLER ADAPTOR	0.293	147.474	41
VH4048	SF44-R4 SPECIAL MID RAIL 85mm	1.302	344.365	112
VH4031	SF44-R7 50mm SILL RAIL	0.909	283.110	76
VH4025	SF44-R9 90mm D/STILE	1.183	309.654	112
VH4026	SF44-R9 90mm D/STILE W/PILE	1.190	329.223	112
VH4041	SF44-R9 SPECIAL W/PILE	1.328	357.608	132
V40022	SF44-SQUARE GLAZING BEAD	0.181	118.220	23
VH4045	SF44-THRESHOLD	0.856	310.762	81
VH4030	SF44-W120 MULLION DOUBLE LIP	1.799	386.399	124
VH4043	SF44-W130 MULLION	2.180	406.165	124
VH4036	SF44-W150 MULLION	2.463	446.399	153
VH4035	SF44-W95 MULLION	1.310	336.365	100
VH4037	SF44-WINDOW SASH	0.680	223.453	72

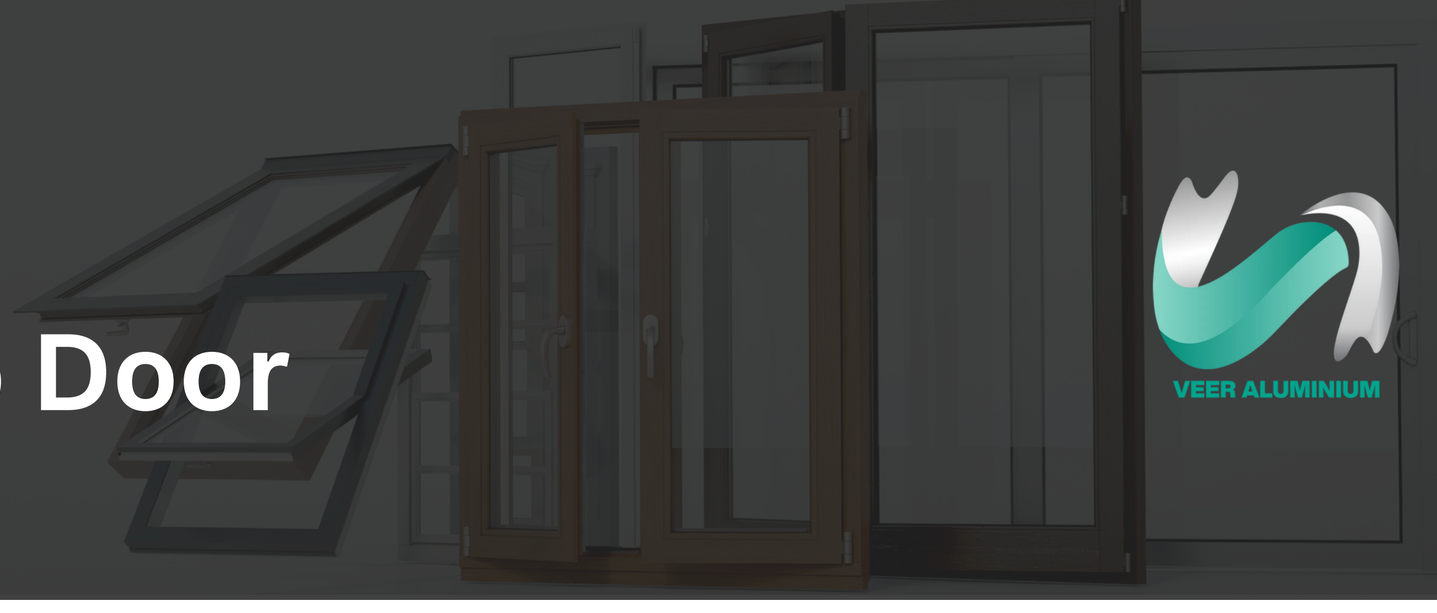
www.veeraluminium.com | +27 11 908 9440 | info@veeraluminium.com

Profile	Description	kg/m	Perimeter	CCD
MV40026	SF44- R19 SPECIAL DOOR SLAT	0.505	284.625	116
MV40023	SF44-45 ANGLE BEAD	0.129	92.159	23
MVH4046	SF44-MID RAIL GLAZING BAR	0.765	234.148	64

All the dimensions are in millimeters
All the profiles are manufactured as per BS EN 755 unless specified

Building and Construction

SF Sliding Patio Door



VEER ALUMINIUM

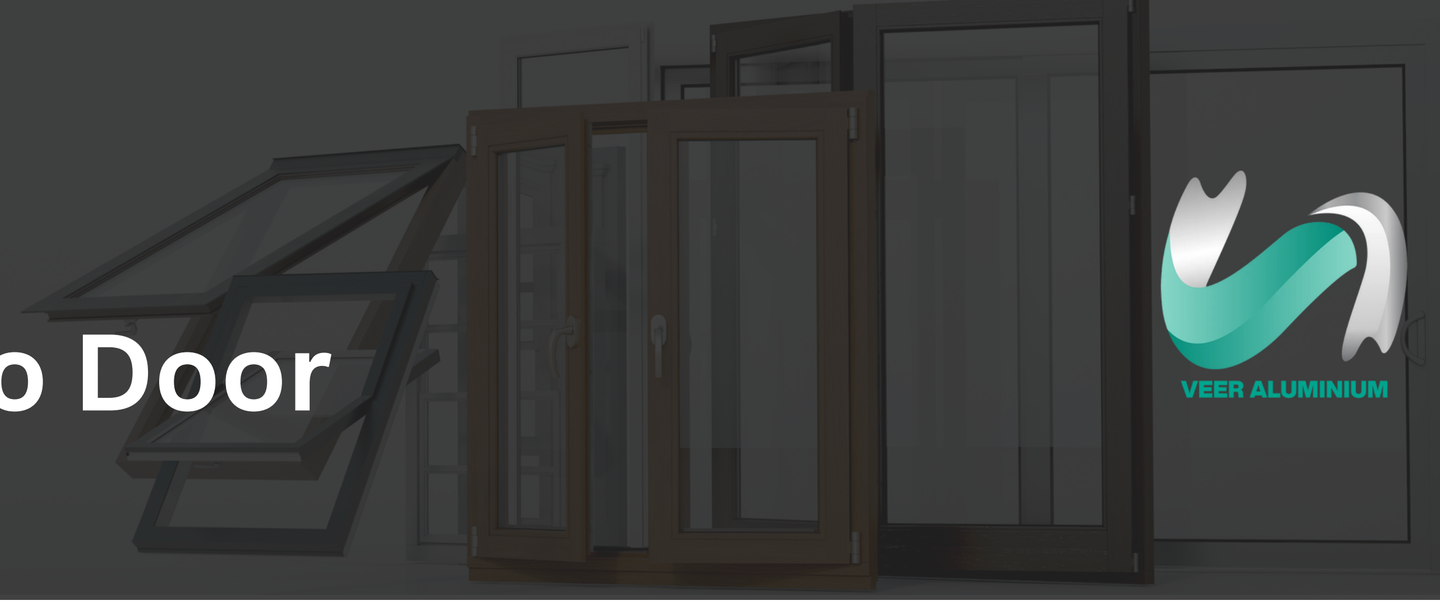
Profile	Description	kg/m	Perimeter	CCD
V40068	SPD SF44 10mm FLOOR TRACK	0.257	69.712	27
VH4078	SPD SF44 39mm MEETING STILLE	0.843	230.843	72
VH4077	SPD SF44 40mm FIXED INTERLOCKER	0.873	271.438	71
VH4076	SPD SF44 40mm SLIDING INTERLOCKER	0.895	274.671	70
VH4126	SPD SF44 65mm FIXED INTERLOCKER	1.809	325.283	89
VH4072	SPD SF44 65mm MALE MEETING STILE	1.549	282.871	97
VH4073	SPD SF44 65mm SLIDING INTERLOCK (ECO)	1.808	325.018	89
VH4074	SPD SF44 65mm SLIDING INTERLOCKER	1.867	326.069	89
V40069	SPD SF44 CILL COVER	0.596	243.606	63
VH4075	SPD SF44 DOUBLE BOX JAMB	1.214	318.189	122
V40072	SPD SF44 DOUBLE CILL RAIL	1.037	502.174	126
V40071	SPD SF44 DOUBLE HEAD RAIL	1.230	615.380	124
V40070	SPD SF44 JAMB ADAPTOR	0.443	224.508	63

All the dimensions are in millimeters
All the profiles are manufactured as per BS EN 755 unless specified

www.veeraluminium.com | +27 11 908 9440 | info@veeraluminium.com

Building and Construction

70 Sliding Patio Door



VEER ALUMINIUM

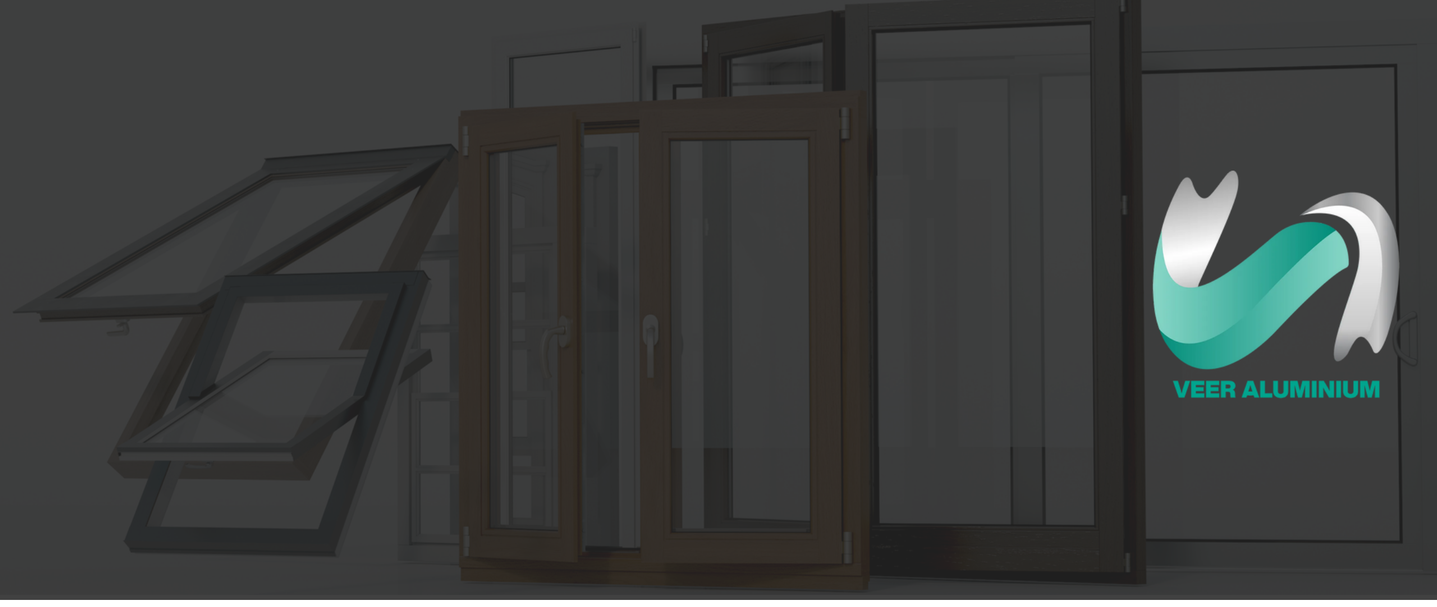
Profile	Description	kg/m	Perimeter	CCD
VH4012	SPD70-EXTRA HEAVY DUTY INTERLOCKER	1.521	296.679	69
VH4015	SPD70-EXTRA HEAVY DUTY MEETING STILE	1.083	393.808	80
V40014	SPD70-FIXED STILE OX	0.246	155.386	30
V40019	SPD70-FRAME HEAD	0.884	488.541	80
V40018	SPD70-FRAME SILL	0.733	376.608	77
V40015	SPD70-HEAD COVER	0.133	92.909	36
VH4013	SPD70-HEAVY DUTY INTERLOCKER	0.762	286.067	65
VH4016	SPD70-HEAVY DUTY MEETING STILE	1.252	467.444	86
VH4014	SPD70-INTERLOCKER	0.521	230.936	40
VH4018	SPD70-LOCK STILE CLOSED	0.633	237.426	66
VH4019	SPD70-LOCK STILE OPEN	0.634	270.043	66
V40020	SPD70-OXXO FIXED STILE	0.453	267.688	51
VH4017	SPD70-OXXO MALE MEETING STILE	0.832	343.064	75
V40017	SPD70-REVERSIBLE FRAME JAMB	0.665	385.179	79
V40016	SPD70-THRESHOLD COVER	0.334	195.284	43
V40021	SPD70-WHEEL SASH	0.506	298.832	55

All the dimensions are in millimeters
All the profiles are manufactured as per BS EN 755 unless specified

www.veeraluminium.com | +27 11 908 9440 | info@veeraluminium.com

Building and Construction

Folding Door



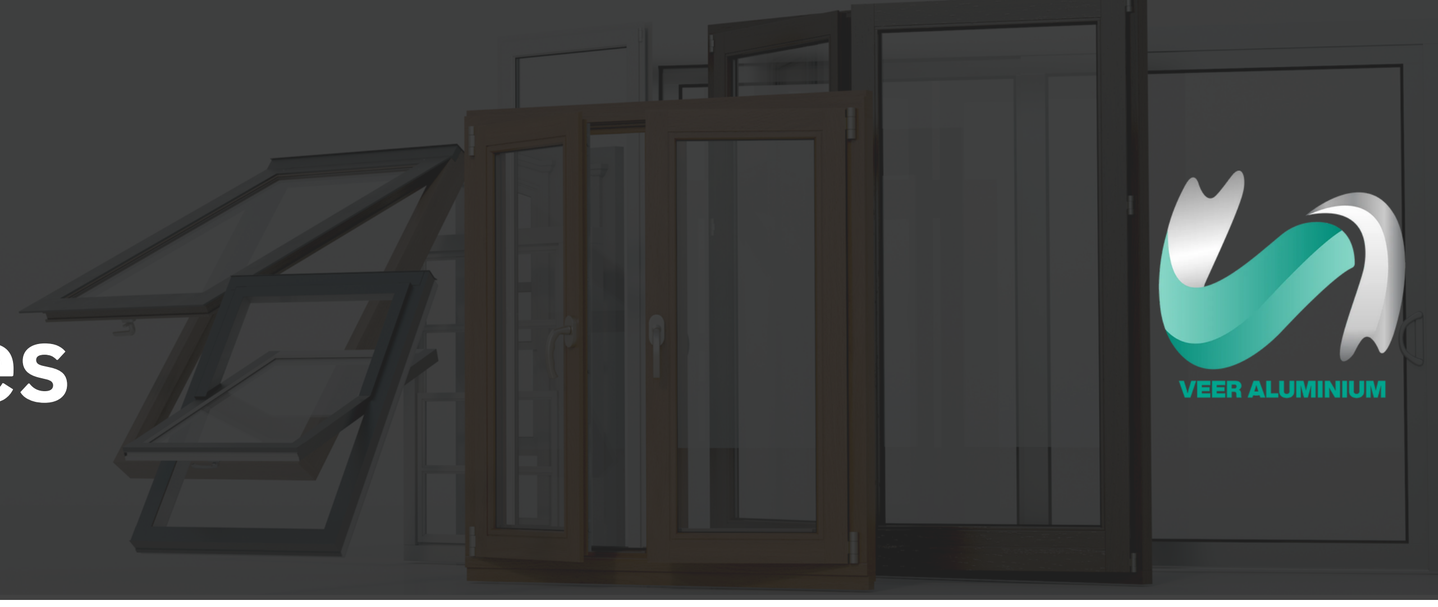
Profile	Description	kg/m	Perimeter	CCD
VH4042	VISTAFOLD HEAD	1.172	373.438	81
VH4047	VISTAFOLD JAMB	0.997	291.312	81
VH4039	VISTAFOLD SILL	1.144	283.632	88
VH4042	FOLDING SLIDING DOOR HEAD	1.172	373.438	81
VH4047	FOLDING SLIDING DOOR JAMB	0.997	291.312	81
VH4039	FOLDING SLIDING DOOR SILL	1.144	283.632	88

All the dimensions are in millimeters
All the profiles are manufactured as per BS EN 755 unless specified

www.veeraluminium.com | +27 11 908 9440 | info@veeraluminium.com

Building and Construction

B&C Accessories



VEER ALUMINIUM

Profile	Description	kg/m	Perimeter	CCD
VH4063	19mm OVAL CUPBOARD HANGING RAIL (ECO)	0.176	92.478	35
VH4049	19mm OVAL CUPBOARD HANGING RAIL (HD)	0.215	93.246	35
V40098	CARPET TRIM	0.167	130.670	42
V40099	CARPET TRIM	0.261	165.230	57
V40100	CARPET TRIM	0.104	70.921	30
V40103	CARPET TRIM	0.178	118.391	44
V40104	CARPET TRIM	0.129	93.185	34
V40101	COVER STRIP	0.149	85.117	40
V40105	STAIR NOSING	0.347	144.402	50
V40073	STEP COVER	1.095	340.756	86
V40058	TILE EGDE (HALF ROUND)	0.105	65.954	22
V40102	WOOD EDGE	0.161	125.681	37

All the dimensions are in millimeters

All the profiles are manufactured as per BS EN 755 unless specified

www.veeraluminium.com | +27 11 908 9440 | info@veeraluminium.com