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High Performance Window Films

Centre-of-glass Comparison Data - VEP 35 & VEP 70 & Single Low-E Glass

PERFORMANCE TERMS	VEP 35	VEP 70	3mm GLASS	CLEAR COMFORT PLUS™ 6.38MM / #4	SOLTECH™ 3MM/#2
% TOTAL SOLAR ENERGY REJECTED	76%	49%	15%	32%	27%
SOLAR HEAT GAIN COEFFICIENT (SHGC)	.24	.51	.85	.68	.73
% UV REJECTED	>99%	>99%	31%	>99%	42
EMISSIVITY	.07	.09	.84	.16	.17
% VISIBLE TRANSMITTANCE	35%	70%	89%	82%	83%
% VISIBLE REFLECTANCE (EXTERIOR)	48%	8%	8%	10%	11%
% VISIBLE REFLECTANCE (INTERIOR)	30%	4%	8%	11%	11%
% GLARE REDUCTION	63%	22%	0%	7%	6%
% TOTAL SOLAR TRANSMITTANCE	19%	46%	83%	64%	71%
% TOTAL SOLAR REFLECTANCE	49%	21%	8%	9%	11%
% TOTAL SOLAR ABSORPTANCE	32%	33%	9%	27%	18%
SHADING COEFFICIENT	.28	.59	.98	.79	.85
WINTER MEDIAN U-VALUE (W/M2K)	3.408	3.465	5.9	3.6	3.7

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Note 1: All Data is calculated on 'centre-of-glass'.

Note 2.: VEP35 and VEP70 Data – as applied to 3mm clear glass.

Note 3: The '#4 & #2' symbols signifies the position of the surface of the glass that is Low-E coated.

Note 4: Comfort Plus™ and Soltech™ are the registered Trade Marks of Viridian.

Note 5: All figures are correct at date of printing – August 2011.

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WERS Comparison Chart - VEP 35 & VEP 70 & Various Glass Types

PERFORMANCE CRITERIA	3MM GLASS + VEP70	3MM GLASS	3MM GLASS + VEP35	3MM/6MM/3MM DOUBLE GLAZING	3MM/6MM/3MM DOUBLE GLAZING + VEP 35	5MM TINTED/ 6MM/5MM DOUBLE GLAZING
COOLING STARS	☆☆☆	NONE	★★★★	★	★★★★	★★★★
HEATING STARS	☆☆☆	NONE	☆☆	☆☆☆	☆☆☆	☆☆
COOLING %	41%	2%	57%	22%	59%	57%
HEATING %	18%	0%	5%	27%	18%	3%
U-VALYE	5.2	7.4	5.1	5.3	4.2	5.2
SHGC	0.47	0.77	0.24	0.69	0.28	0.24
TVIS	0.62	0.8	0.31	0.72	0.28	0.1
AL	5	5	5	5	5	5

WINDOW ID	MEP-001-24	WER-004-01	MEP-001-23	WER-004-05	MEP-003-23	WER-004-08
GLAZING ID	3VEP70int	3CL	3VEP35int	3/6/3	3/6/3VEP35int	5ST/6/5

Note 1: Figures correct at date of printing - February 16th 2012

Note 2: Glass and framing data taken from the Australian WERS website using generic aluminium framed glazing

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WERS Competitor Comparison Chart

COMPANY	GENERIC	GENERIC	MEP	MEP	SOLAR GARD	3M	HANITA	SUNTEK	JOHNSONS	KRISTAL BOND
PRODUCT CODE	3MM GLASS	3/6/3	VEP 35	VEP 70	AG25LE	AMBER35LE	SILVER35LE	NO LEF	NO LEF	NO LEF
WINDOW ID	WER-004-01	WER-004-05	MEP-001-23	MEP-001-24	BSF-001-01	MMM-001-20	HAN-001-12	STK-001-14	JFW-001-09	KRI-001-01
GLAZING	3Clr	3/6/3	3VEP35int	3VEP70int	3Ag25LE	3Ambr35LE	3Slvr20-Low-E	3DRMPSint	35B20int	6KRIBOND
COOLING STARS	0	★	★★★★	★★★	★★★★	★★★★★	★★★★★	★★★★★	★★★	★★
HEATING STARS	0	★★★	★★	★★★	0	0	0	0	0	0
COOLING %	2%	22%	57%	41%	55%	54%	55%	54%	50%	32%
HEATING %	0%	27%	5%	18%	-8%	-8%	-12%	-24%	-21%	-13%
Uw	7.4	5.3	5.1	5.2	5.9	6.00	6.1	6.8	6.9	7.3
SHGC	0.77	0.69	0.24	0.47	0.21	0.23	0.20	0.17	0.22	0.45
TVw	0.80	0.72	0.31	0.62	0.20	0.27	0.15	0.06	0.18	0.57
AIR Inf	5	5	5	5	5	5	5	5	5	5

Note 1: Figures correct at date of printing – February 16th 2012.

Note 2: Both Johnsons Window Film and Sunteck did not have a Low-E film in the WERS database at the time of printing. Therefore for comparison purposes, the relevant films chosen were those with the lowest Uw.

Note 3: Glass and framing data taken from the Australian WERS website using generic aluminium framed glazing.

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Technical Data VEP 35 & VEP 70 Applied to 3mm Glass

DATA BELOW IS FOR CENTRE-OF-GLASS (COG)

PERFORMANCE TERMS	VEP 35	VEP 70
TOTAL SOLAR ENERGY REJECTION (HEAT)	76%	49%
VISIBLE LIGHT TRANSMITTED	33%	70%
VISIBLE LIGHT REFLECTED (EXTERNAL)	48%	8%
VISIBLE LIGHT REFLECTED (INTERNAL)	30%	4%
SHADING CO-EFFICIENT	.28	.59
WINTER U-VALUE (W/M2.K)	3.408	3.464
SUMMER U-VALUE (W/M2.K)	2.441	2.498
SOLAR HEAT GAIN CO-EFFICIENT (SHGC)	.24	.51
ULTRA VIOLET REJECTED	99%	99%
EMMISSIVITY	.07	.09
SOLAR ENERGY REFLECTED	49%	21%
SOLAR ENERGY ABSORBED	32%	33%
ESTIMATED FADE REDUCTION ¹ (SEE NOTE 1)	75%	59%
GLARE REDUCTION	63%	20%
THICKNESS	50micron	50micron
ADHESIVE	CDF	CDF
SCRATCH RESISTANT COATING	YES	YES
METAL CONTENT	YES - PROPRIETARY	YES - PROPRIETARY
COLOUR STABILITY	YES	YES
COLOUR	SKY BLUE	LIGHT AMBER
WARRANTY - RESIDENTIAL/COMMERCIAL	10 YEARS	10 YEARS

WERS RATING - VEP35 and VEP70 applied to 3mm Clear Glass.

Glass Film	Cooling stars	Heating Stars	Cooling %	Heating %	Uw	SHGC	Tvis	AI	Window ID	Glazing ID
3mm Glass + VEP 35	★★★★	★★	57%	5%	5.1	0.24	0.31	5	MEP 001-23	3VEP35int
3mm Glass + VEP 70	★★★	★★★	41%	18%	5.2	0.47	0.62	5	MEP 001-24	3VEP70int

NOTE 1: This data is a guide enabling an estimate only of fade reduction, as there are many variables that cause fading, it would be impossible to give an exact figure, therefore, does not constitute a warranty.