

Dual Reflective Films Interior



Dual Reflective Films

OptiTune, OptiShade and Titan Duo Dual Reflective solar control films combine a warm, low-reflectance neutral interior with a sophisticated, high energy-rejecting exterior.

OptiTune neutral grey films are available with water activated adhesive, and as security laminates under the SolarZone Safe line.

OptiShade features a warm, neutral brown tone, ideal for residential use. Available with water activated adhesive.

Titan Duo provides an attractive neutral shade, delivering high solar energy rejection while enhancing comfort and privacy.

Titan Duo interior films are color compatible with Titan Xtra exterior films, combining an attractive appearance with exceptional energy savings.

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OptiShade

- OptiShade 15 R069O1W
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Titan Duo

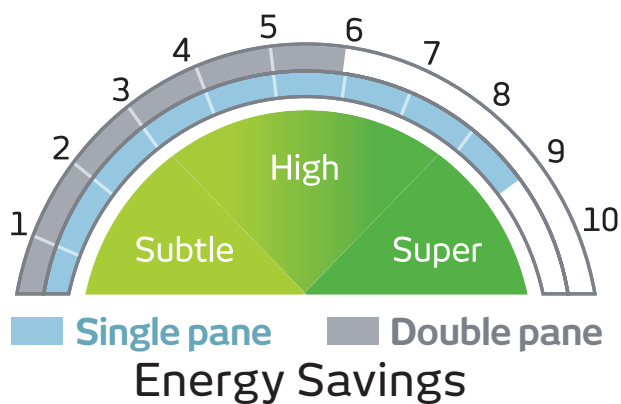
- Titan Duo 05 R058W0S
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OptiTune 05

OPTICAL & SOLAR PROPERTIES

	Single Pane	Double Pane
Visible Light Transmitted	6 %	6 %
Visible Light Reflected (Int)	15 %	15 %
Visible Light Reflected (Ext)	63 %	63 %
Ultra Violet Block	99 %	99 %
Total Solar Energy Reflected	56 %	50 %
Total Solar Energy Transmitted	6 %	6 %
Total Solar Energy Absorbed	38 %	44 %
Emissivity (Room Side)	0.75	0.75
Glare Reduction	93 %	93 %
Shading Coefficient	0.19	0.31
Solar Heat Gain Coeff. (G-Value)	0.16	0.27
U-Value Winter (IP)	0.99	0.47
U-Value Winter (SI)	5.62	2.66
Luminous Efficacy	0.32	0.19
Total Solar Energy Rejected	84 %	73 %

R070R0W - OptiTune 05 Water Activated Adhesive



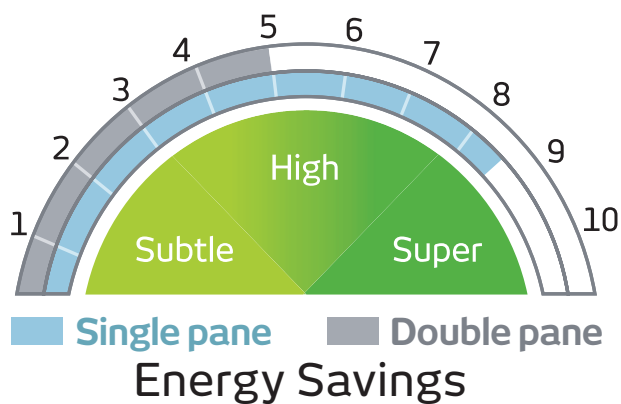
Ed-C DS No 1158 February 2013

OptiTune 15

OPTICAL & SOLAR PROPERTIES

	Single Pane	Double Pane
Visible Light Transmitted	13 %	13 %
Visible Light Reflected (Int)	25 %	24 %
Visible Light Reflected (Ext)	56 %	56 %
Ultra Violet Block	99 %	99 %
Total Solar Energy Reflected	51 %	46 %
Total Solar Energy Transmitted	12 %	11%
Total Solar Energy Absorbed	37 %	43 %
Emissivity (Room Side)	0.76	0.76
Glare Reduction	85 %	85 %
Shading Coefficient	0.26	0.37
Solar Heat Gain Coeff. (G-Value)	0.22	0.32
U-Value Winter (IP)	1.00	0.47
U-Value Winter (SI)	5.68	2.67
Luminous Efficacy	0.50	0.34
Total Solar Energy Rejected	78 %	68 %

R070R1W - OptiTune 15 Water Activated Adhesive



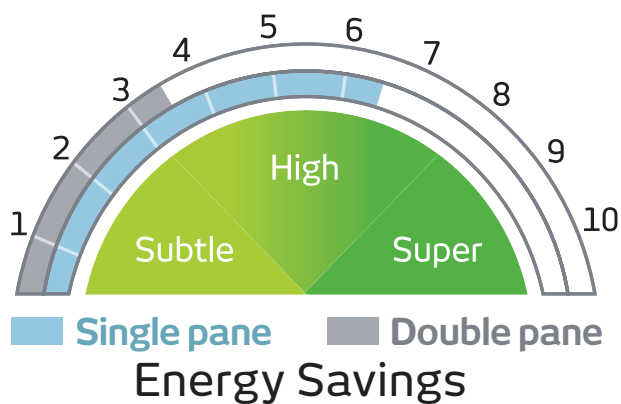
Ed-C DS No 1162 February 2013

OptiTune 22

OPTICAL & SOLAR PROPERTIES

	Single Pane	Double Pane
Visible Light Transmitted	21 %	19 %
Visible Light Reflected (Int)	15 %	15 %
Visible Light Reflected (Ext)	32 %	35 %
Ultra Violet Block	99 %	99 %
Total Solar Energy Reflected	31 %	31 %
Total Solar Energy Transmitted	18 %	16 %
Total Solar Energy Absorbed	51 %	53 %
Emissivity (Room Side)	0.80	0.80
Glare Reduction	77 %	76 %
Shading Coefficient	0.38	0.51
Solar Heat Gain Coeff. (G-Value)	0.33	0.44
U-Value Winter (IP)	1.02	0.48
U-Value Winter (SI)	5.79	2.70
Luminous Efficacy	0.55	0.38
Total Solar Energy Rejected	67 %	56 %

R069R2W - OptiTune 22 Water Activated Adhesive



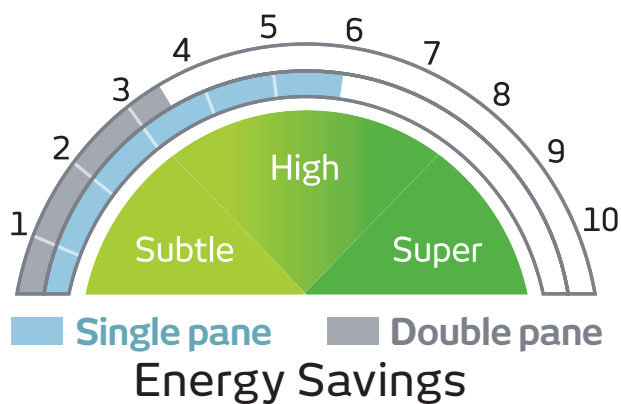
Ed-B DS No 1159 February 2013

OptiTune 30

OPTICAL & SOLAR PROPERTIES

	Single Pane	Double Pane
Visible Light Transmitted	32 %	30 %
Visible Light Reflected (Int)	26 %	27 %
Visible Light Reflected (Ext)	32 %	36 %
Ultra Violet Block	99 %	99 %
Total Solar Energy Reflected	32 %	31 %
Total Solar Energy Transmitted	25 %	22 %
Total Solar Energy Absorbed	43 %	47 %
Emissivity (Room Side)	0.81	0.81
Glare Reduction	63 %	63 %
Shading Coefficient	0.44	0.53
Solar Heat Gain Coeff. (G-Value)	0.37	0.46
U-Value Winter (IP)	1.03	0.48
U-Value Winter (SI)	5.85	2.71
Luminous Efficacy	0.75	0.57
Total Solar Energy Rejected	63 %	54 %

R069R3W - OptiTune 30 Water Activated Adhesive



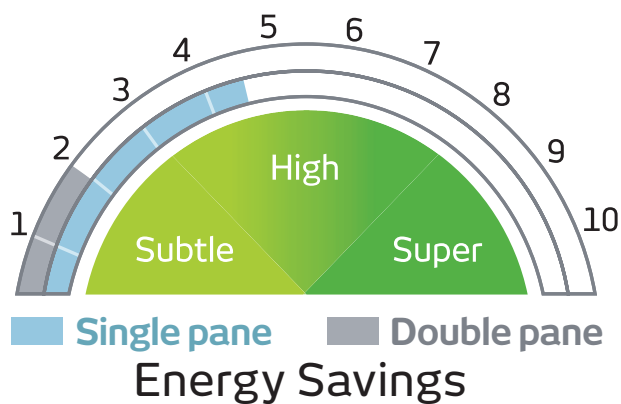
ED-E DS No 1160 February 2013

OptiTune 40

OPTICAL & SOLAR PROPERTIES

	Single Pane	Double Pane
Visible Light Transmitted	41 %	38 %
Visible Light Reflected (Int)	18 %	19 %
Visible Light Reflected (Ext)	21 %	26 %
Ultra Violet Block	99 %	99 %
Total Solar Energy Reflected	22 %	24 %
Total Solar Energy Transmitted	33 %	29 %
Total Solar Energy Absorbed	45 %	47 %
Emissivity (Room Side)	0.83	0.83
Glare Reduction	54 %	54 %
Shading Coefficient	0.54	0.62
Solar Heat Gain Coeff. (G-Value)	0.46	0.54
U-Value Winter (IP)	1.04	0.48
U-Value Winter (SI)	5.91	2.72
Luminous Efficacy	0.77	0.60
Total Solar Energy Rejected	54 %	46 %

R069R4W - OptiTune 40 Water Activated Adhesive



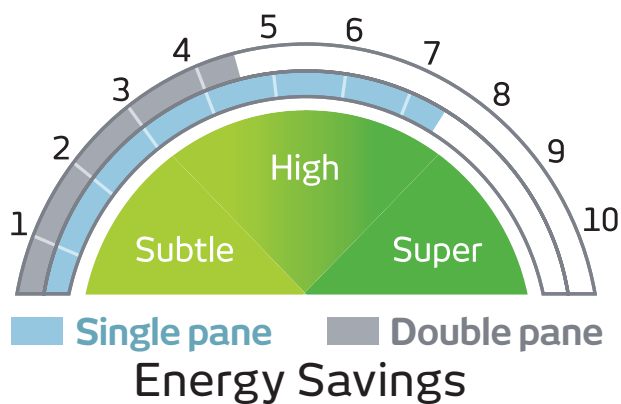
Ed-E DS No 1161 February 2013

OptiShade 15

OPTICAL & SOLAR PROPERTIES

	Single Pane	Double Pane
Visible Light Transmitted	16 %	15 %
Visible Light Reflected (Int)	17 %	17 %
Visible Light Reflected (Ext)	44 %	46 %
Ultra Violet Block	99 %	99 %
Total Solar Energy Reflected	42 %	39 %
Total Solar Energy Transmitted	13 %	11 %
Total Solar Energy Absorbed	45 %	50 %
Emissivity (Room Side)	0.79	0.79
Glare Reduction	82 %	82 %
Shading Coefficient	0.31	0.43
Solar Heat Gain Coeff. (G-Value)	0.27	0.38
U-Value Winter (IP)	1.01	0.47
U-Value Winter (SI)	5.76	2.69
Luminous Efficacy	0.52	0.34
Total Solar Energy Rejected	73 %	62 %

R069O1W - OptiShade 15 Water Activated Adhesive



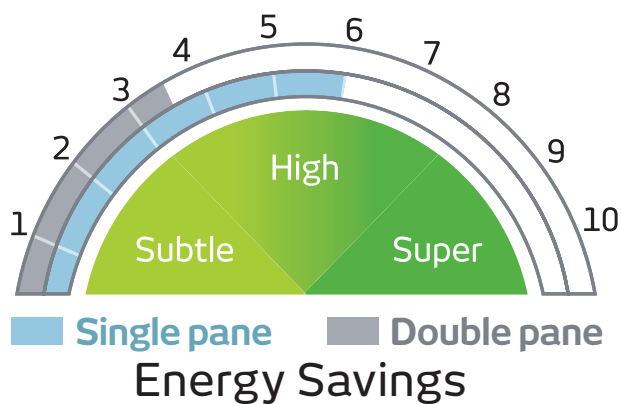
ED-A DS No 1001 May 2015

OptiShade 25

OPTICAL & SOLAR PROPERTIES

	Single Pane	Double Pane
Visible Light Transmitted	27 %	25 %
Visible Light Reflected (Int)	14 %	14 %
Visible Light Reflected (Ext)	25 %	30 %
Ultra Violet Block	99 %	99 %
Total Solar Energy Reflected	26 %	27 %
Total Solar Energy Transmitted	23 %	20 %
Total Solar Energy Absorbed	51 %	53 %
Emissivity (Room Side)	0.84	0.84
Glare Reduction	70 %	69 %
Shading Coefficient	0.44	0.56
Solar Heat Gain Coeff. (G-Value)	0.39	0.49
U-Value Winter (IP)	1.04	0.48
U-Value Winter (SI)	5.91	2.73
Luminous Efficacy	0.61	0.45
Total Solar Energy Rejected	61 %	51 %

R069O2W - OptiShade 25 Water Activated Adhesive



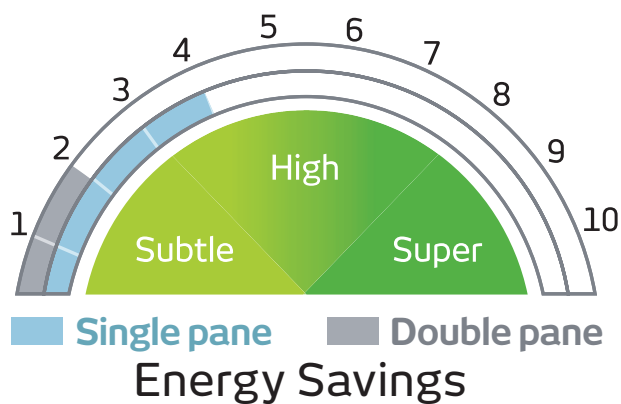
ED-A DS No 1002 May 2015

OptiShade 35

OPTICAL & SOLAR PROPERTIES

	Single Pane	Double Pane
Visible Light Transmitted	35 %	32 %
Visible Light Reflected (Int)	10 %	11 %
Visible Light Reflected (Ext)	13 %	20 %
Ultra Violet Block	99 %	99 %
Total Solar Energy Reflected	14 %	18 %
Total Solar Energy Transmitted	34 %	29 %
Total Solar Energy Absorbed	53 %	53 %
Emissivity (Room Side)	0.86	0.86
Glare Reduction	61 %	61 %
Shading Coefficient	0.58	0.67
Solar Heat Gain Coeff. (G-Value)	0.5	0.59
U-Value Winter (IP)	1.05	0.48
U-Value Winter (SI)	5.97	2.75
Luminous Efficacy	0.6	0.47
Total Solar Energy Rejected	50 %	41 %

R069O3W - OptiShade 35 Water Activated Adhesive



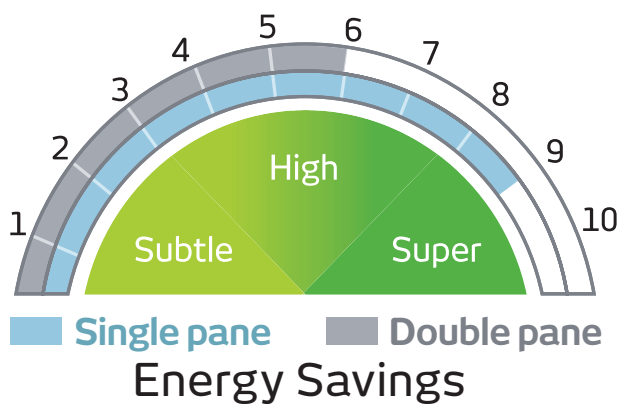
ED-A DS No 1003 May 2015

Titan Duo 05

OPTICAL & SOLAR PROPERTIES

	Single Pane	Double Pane
Visible Light Transmitted	7 %	7 %
Visible Light Reflected (Int)	18 %	18 %
Visible Light Reflected (Ext)	59 %	60 %
Ultra Violet Block	99 %	99 %
Total Solar Energy Reflected	53 %	48 %
Total Solar Energy Transmitted	7 %	6 %
Total Solar Energy Absorbed	40 %	46 %
Emissivity (Room Side)	0.78	0.78
Glare Reduction	92 %	91 %
Shading Coefficient	0.21	0.34
Solar Heat Gain Coeff. (G-Value)	0.18	0.29
U-Value Winter (IP)	1.01	0.47
U-Value Winter (SI)	5.73	2.68
Luminous Efficacy	0.33	0.22
Total Solar Energy Rejected	82 %	71 %

R058W0S - Titan Duo 05 Pressure Sensitive Adhesive



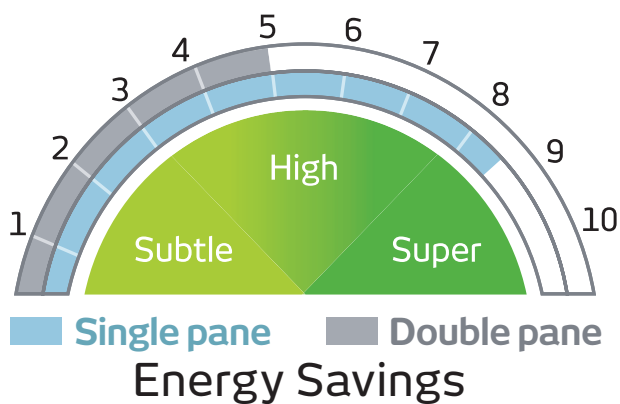
Ed-B DS No 1443 February 2013

Titan Duo 15

OPTICAL & SOLAR PROPERTIES

	Single Pane	Double Pane
Visible Light Transmitted	12 %	11 %
Visible Light Reflected (Int)	25 %	26 %
Visible Light Reflected (Ext)	56 %	57 %
Ultra Violet Block	99 %	99 %
Total Solar Energy Reflected	51 %	46 %
Total Solar Energy Transmitted	9 %	9 %
Total Solar Energy Absorbed	39 %	45 %
Emissivity (Room Side)	0.78	0.78
Glare Reduction	87 %	87 %
Shading Coefficient	0.23	0.35
Solar Heat Gain Coeff. (G-Value)	0.20	0.30
U-Value Winter (IP)	1.01	0.47
U-Value Winter (SI)	5.73	2.68
Luminous Efficacy	0.51	0.31
Total Solar Energy Rejected	80 %	70 %

R058W1S - Titan Duo 15 Pressure Sensitive Adhesive



Ed-B DS No 1444 February 2013