



Architectural Window Film

Data Sheet

SolarZone™ Exterior **Titan™ 07, 20, 35, 50 Xtra**

Introduction

The SolarZone Dual Reflective product lines - OptiTune™ and Titan - combine a reflective outer layer for high solar energy rejection with a less reflective inner layer to preserve the view outside and maintain indoor ambience. All films deliver high levels of protection from solar heat. The films cut costs by reducing the need for air conditioning and boosting energy efficiency - a sustainable solution. Durable and long-lasting color are the result of advanced nano-technology coatings.

Typical Usage

- For exterior applications - Dual Reflective films are ideal for commercial and residential applications
- Upgrading glazing projects when customers demand quick payback
- Ensure the neutral interior preserves the view to the outside - both day and night

Product Construction

Face: Titan 07, 20, 35, 50

Adhesive: Pressure sensitive permanent - solvent based acrylic

Liner: PET

Certificates

Fire Certificates: DIN EN 13501-1: 2010 B-s1, d0



Shelf Life and storage conditions:

When stored in original packaging upon arrival at the customer: 2 years.
Recommended Storage conditions are 20 °C (\pm 2 °C) with 50 %RH (\pm 5%).

Key Features

- Energy efficient: Titan provides very good heat rejection and rapid payback
- Improved comfort
- Reducing glare by up to 91%

Film Performance

Warranted Durability in Years:

	Titan 07 Xtra	Titan 20 Xtra	Titan 35 Xtra	Titan 50 Xtra
Vertical	5 years	5 years	5 years	4 years
Horizontal / Sloped	3 years	3 years	3 years	2 years



Optical & Solar Properties

Glazing Unit: Pane Single Clear 3mm	Titan 07 Xtra	Titan 20 Xtra	Titan 35 Xtra	Titan 50 Xtra
Visible Light Transmitted %	8	19	36	53
Visible Light Reflected - Interior %	17	14	14	19
Visible Light Reflected - Exterior %	55	34	22	18
UV Block %	99	99	99	99
Total Solar Energy Reflected %	58	38	26	22
Total Solar Energy Transmitted %	7	18	31	40
Total Solar Energy Absorbed %	35	45	44	38
Emissivity (Room Side)	0.84	0.84	0.84	0.84
Glare Reduction %	91	79	61	41
Selective InfraRed Reduction %	93	82	71	66
InfraRed Energy Reduction %	83	70	58	54
Shading Coefficient	0.20	0.36	0.50	0.59
Solar Heat Gain Coefficient (G-Value)	0.17	0.31	0.43	0.51
U-Value Winter (IP)	1.04	1.04	1.04	1.04
U-Value Winter (SI)	5.91	5.91	5.91	5.91
Luminous Efficacy	0.40	0.53	0.70	0.90
Total Solar Energy Rejected	83	69	57	49



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