



# Architectural Window Film

## Data Sheet

### **SolarZone™ Interior** **Titan Duo™ 05, 15**

#### 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 interior 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 Duo 05, 15

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

- High levels of heat rejection cuts energy costs by reducing consumption and peak load
- Outstanding glare control for enhanced comfort
- Warm neutral interior with low reflectivity preserves ambiance and views
- 99+% UV block limits fading and damage from the sun
- Reducing glase by up to 92%

## Film Performance

Warranted Durability in Years:

	Titan Duo 05	Titan Duo 15
Durability	12	12



Hanita Coatings

Optical & Solar Properties

Glazing Unit: Pane Single Clear 3mm	Titan Duo 05	Titan Duo 15
Visible Light Transmitted %	7	12
Visible Light Reflected - Interior %	18	25
Visible Light Reflected - Exterior %	59	56
UV Block %	99	99
Total Solar Energy Reflected %	53	51
Total Solar Energy Transmitted %	7	9
Total Solar Energy Absorbed %	40	39
Emissivity (Room Side)	0.78	0.78
Glare Reduction %	92	87
Selective InfraRed Reduction %	94	92
InfraRed Energy Reduction %	81	80
Shading Coefficient	0.21	0.23
Solar Heat Gain Coefficient (G-Value)	0.18	0.20
U-Value Winter (IP)	1.01	1.01
U-Value Winter (SI)	5.73	5.73
Luminous Efficacy	0.33	0.51
Total Solar Energy Rejected	82	80



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