### **Architectural Window Film**

### Data Sheet



# SafetyZone™ SolarZone™ Interior 4, 9, 12 mil Silver™ 20

### Introduction

SolarZone Safe films combine the shard protection of SafetyZone security films with high levels of energy efficiency for a significant return on investment. Go beyond passive glazing protection. Install Hanita's security laminates with their outstanding solar control properties and contribute to energy efficiency by reducing unwelcome heat buildup.

## Typical Usage

- Interior applications where the need for safety and solar control are required
- In downtown areas or commercial districts where there is a high concentration of glass-fronted buildings or shop windows
- For buildings in the vacinity of potentially explosive sites
- In regions prone to the threat of natural disaster

### **Product Construction**

Face: 4, 9, 12 mil

Adhesive: Pressure sensitive permanent - solvent based acrylic

Liner: PET

#### Certificates

4 mil: BS EN 12600 2B2

## Shelf Life and storage conditions:

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



# **Key Features**

- Silver Safe Reflective films combine the reinforced protection of security laminates with:
- Superb heat rejection
- UV block
- Sophisticated appearance

## Film Performance

Warranted Durability in Years:

	Silver 20, 4	Silver 20, 9	Silver 20, 12
	mil	mil	mil
Durability	12	12	12

## **Mechanical Properties**

	Silver 20, 4 mil	Silver 20, 9 mil	Silver 20, 12 mil
Thickness	4 mil	9 mil	12 mil
Tensile Strength at Break	28,500 PSI	28,500 PSI	28,500 PSI
Break Strength	112 lb/inch	245 lb/inch	336 lb/inch
Elongation at Break	125%	125%	125%
Peel Strength	7 lb/inch	7 lb/inch	7 lb/inch

# Optical & Solar Properties



Glazing Unit: Pane Single Clear 3mm	Silver 20, 4 mil	Silver 20, 9 mil	Silver 20, 12 mil
Visible Light Transmitted %	19	20	18
Visible Light Reflected - Interior %	61	61	62
Visible Light Reflected - Exterior %	60	57	61
UV Block %	99	99	99
Total Solar Energy Reflected %	53	50	53
Total Solar Energy Transmitted %	14	15	13
Total Solar Energy Absorbed %	33	35	34
Emissivity (Room Side)	0.74	0.91	0.88
Glare Reduction %	79	78	81
Selective InfraRed Reduction %	65	92	69
InfraRed Energy Reduction %	49	80	62
Shading Coefficient	0.27	0.30	0.27
Solar Heat Gain Coefficient (G-Value)	0.23	0.25	0.23
U-Value Winter (IP)	0.99	1.08	1.06
U-Value Winter (SI)	5.62	6.13	6.02
Luminous Efficacy	0.70	0.67	0.66
Total Solar Energy Rejected	77	75	77



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