



**XIR**<sup>®</sup>

**HEAT  
REFLECTING  
LAMINATED  
GLASS**



**DEAN'S  
Autoglass**

machinery glazing solutions

# DEAN'S AUTOGLASS

# XIR®

# HEAT REFLECTING LAMINATED GLASS

Dean's Autoglass R&D department have designed and developed the ultimate safety glass for use in heavy industry where the chance of glass breakage and cabin intrusion is a high risk.

Tests have shown XIR® Glass is superior in strength and durability over existing laminated glass in the market. The safety of operators using machines in risk areas is enhanced by its strength, as well as reducing operator fatigue, due to the reduction in solar heat gain and noise attenuation properties.

XIR® Glass provides a safer and more comfortable work environment, leading to greater productivity.

## SAFETY

### INTRUSION RESISTANCE

#### Sample 1. STANDARD

8.38mm Laminated Glass

#### Sample 2. XIR® GLASS

9mm High Performance Laminated Glass

Tests performed in accordance with AS/NZS 2080 appendix-1, using a 2.25kg hardened steel ball dropped from the heights listed in the table below. Test area temperature was 35° Celsius ± 2°.



	TEST HEIGHT	RESULT
<b>SAMPLE 1</b> <b>STANDARD LAMINATED GLASS</b>	2 metres	✓ PASS
	3 metres	✓ PASS
	4 metres	✓ PASS
	4.5 metres	✗ FAIL
	5 metres	✗ FAIL
	5.5 metres	✗ FAIL
	6 metres	✗ FAIL
<b>SAMPLE 2</b> <b>XIR® GLASS</b>	2 metres	✓ PASS
	3 metres	✓ PASS
	4 metres	✓ PASS
	4.5 metres	✓ PASS
	5 metres	✓ PASS
	6 metres	✓ PASS
	9 metres*	✓ PASS

\* PLEASE NOTE: 9 metres is the maximum height of the test facility tower.

# PRODUCTIVITY

## LESS INCIDENTAL BREAKAGE

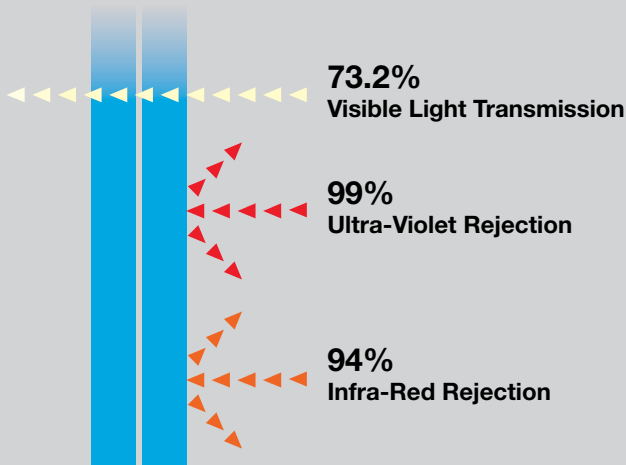
With the added combination of PET and PVB interlayers, incidental breakage (chips and cracks) are reduced, minimizing machine downtime for glass replacement and improving machine and worker productivity.

# THERMAL COMFORT

## HEAT AND RADIATION SHIELDING

XIR® Glass laminated glass was developed to reflect 99% of ultra-violet and 94% infra-red radiation, thereby reducing solar heat gain by over 55%.

A cooler and more comfortable work environment with a reduction in thermal skin sensation (TSS) will minimize operator fatigue and increase safety and productivity.



# NOISE ATTENUATION

## EASY ON THE EARS

The acoustic properties of noise dampening PVB (Polyvinyl Butyrol Resin) plus heat reflective PET (Poly Ethylene Terephthalote) interlayer film greatly diminishes the transmission of high frequency noise by 8 decibels and low frequency noise by around 5 decibels.

The operator benefits from improved acoustic comfort and increased hearing safety levels.

# VISUAL CLARITY & LOW REFLECTIVITY

## UNMATCHED IN NIGHT WORK APPLICATIONS

Unlike conventional tinted films and glass, XIR® Glass is transparent and has a low reflectivity so you are never forced, day or night, to sacrifice clarity and light transmission. A safer and more productive workplace is achieved as night time visibility is maximized while internal reflectivity of cabin lights is minimized.

# ON-SITE INSTALLATION

## WELCOME TO YOU!

XIR® Glass can be installed on-site to minimize downtime of your machinery.

Our approved installers are professionals who guarantee and take pride in their workmanship.

The many safety and productivity benefits of having XIR® Glass installed cannot be surpassed by competitors.

# QUALITY



Safety in risk areas is enhanced by its strength, as well as reducing operator fatigue.



# SUMMARY OF FEATURES & BENEFITS

## INCREASED IMPACT RESISTANCE

- Safer working environment
- Higher productivity

## INCREASED RESISTANCE TO INCIDENTAL BREAKAGE

- Less replacement cost
- Less machine down time
- Higher productivity

## HIGH LIGHT TRANSMITTANCE

- Good visibility day and night
- No internal reflection

## SOLAR CONTROL

- Less heat load in cabin
- Most equipment run two air conditioners  
– machinery may still operate on one air conditioner.

## SOUND ATTENUATION

- More comfortable work environment
- Less operator fatigue

This is why the mining sector loves XIR®.



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