

## Lexan \* Solar Control IR Sheet

## Lexan \* SC IR Multiwall Sheet

t green, blue or gray tinted.

- Proprietary resin additives are used to manage heat instead of expensive and fragile coatings.
- Right combination between light diffusion & ideal temperature
  - Keeps light transmission (LT) as high as possible.
  - Blocks selectively the infrared waves from the visible light to get a low solar transmission (ST)
    - Resulting in having a Solar Factor (SF) as high as possible

$$\text{Solar Factor (SF) (3)} = \frac{\text{Total Light Transmission (1)}}{\text{Total Solar Transmission (2)}}$$

- (1) Amount of light that goes through the Lexan sheet
- (2) Amount of heat that goes through the Lexan sheet
- (3) Has to be as high as possible for a good solar comfort

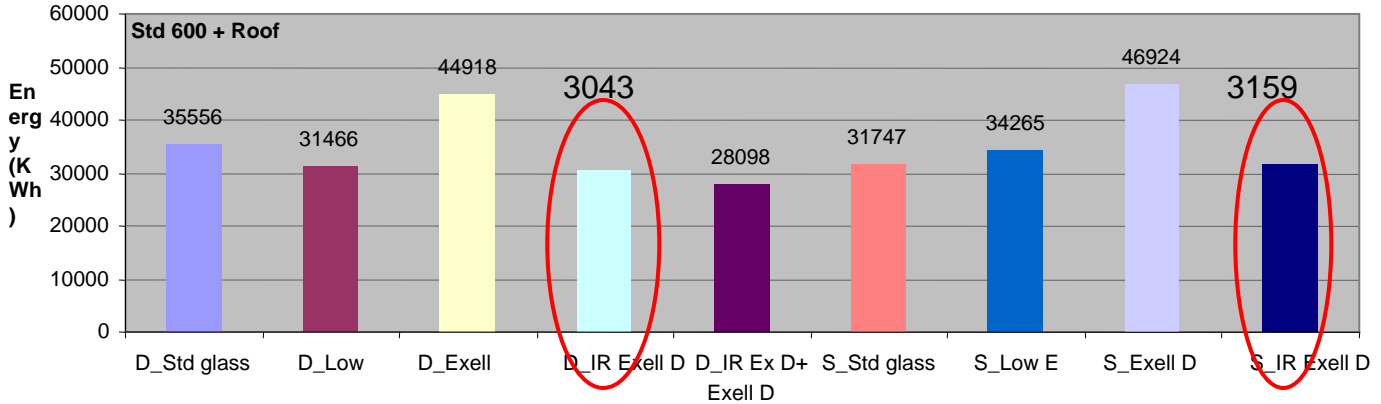
- **Helps saving energy costs for cooling and lighting buildings:** Ideal for zones with very high or low temperatures.
- **UV protection on both sides of the sheet:** May help installers to reduce losses due to installation errors.
- **Superior fire performance:** Excellent flame resistance and heat stability.
- **10- year limited written warranty against reduction of light or solar**
- **Outstanding design freedom. Can be cold formed without loosing impact or weathering properties.**
- **Lightweight:** an outstanding balance of low weight and high stiffness
- **Ease of installation:** can be easily cut in site using conventional tools

	Grade	2UVIR102R17	2UVIR163T27	2UVIR163X29	2UVIR205R33	2UVIR256R35	2UVIR255X34	2UVIR325X38
	Color	GN8B038T	GN8B038T	GN8B038T	GN8B038T	GN8B038T	GN8B038T	GN8B038T
Gauge	mm	10	16	16	20	25	25	32
Weight	kg/m <sup>2</sup>	1.7	2.7	2.9	3.3	3.5	3.4	3.8
<b>Optical Properties</b>								
Light Transmittance D65 (%LT)*	%	65	55	46	46	38	41	36
Light Reflectance D65 (%LR)*	%	9	12	13	16	16	17	15
Direct Solar Transmittance (%DST)*	%	45	36	29	29	25	26	23
Direct Solar Reflectance (%DSR)*	%	7	9	10	12	12	13	11
Direct Solar Absorbance (%DSA)	%	48	55	62	59	63	61	65
Total Solar Transmittance (%TST)*	%	60	52	45	46	44	44	42
Shading Coefficient (SC)	%	0.69	0.60	0.52	0.53	0.51	0.50	0.49
<b>Physical Properties</b>								
Sound reduction values	dB	19	21	21	22	23	23	23
U- for K- value	W/m <sup>2</sup> .K	3.0	2.4	2.3	1.8	1.5	1.6	1.4
Hail Impact test								
Bullet 20mm		>21	>21	>21	>21	>21	>21	>21
Velocity, m/sec								

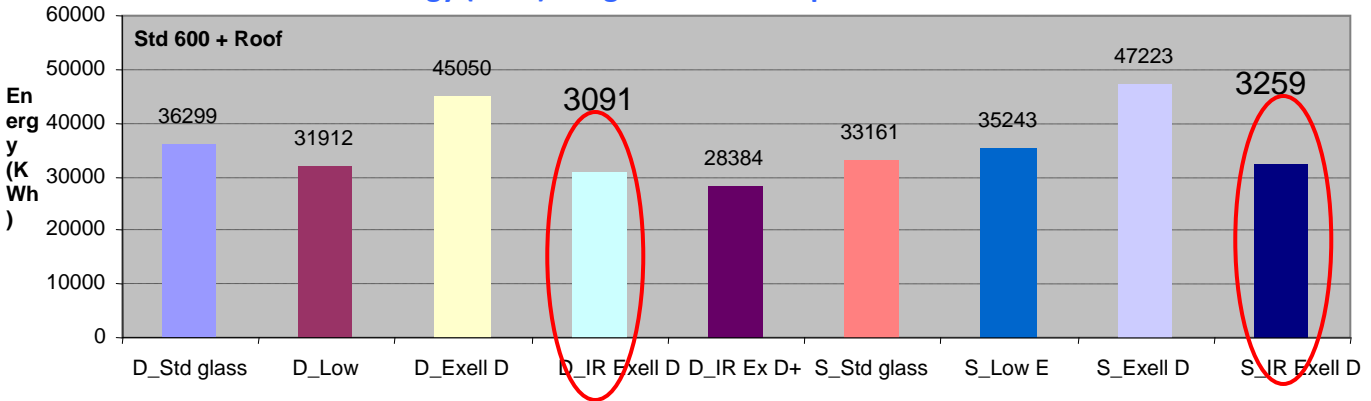
\*Measurement is performed according to ISO9050 (NEN-EN410) on 600x600mm samples

# Energy Savings with LEXAN Exell D SC IR

Annual cooling energy (KWh): Single and Double pane window : Miami



Annual Total energy (KWh): Single and Double pane window : Miami



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