TECNOGLASS

TECNOGLASS Low-E Series

Solar Control Low-E Glass
Energy Efficiency

High Performance Low-E Glass

Our Low-E coatings offer efficient energy saving benefits to any architectural project, minimizing the amount of ultraviolet and infrared light that passes through the glass without compromising the amount of visible light transmittance. At Tecnoglass we offer a wide variety of coatings, both passive and solar control, which can be applied to clear or tinted glass.

Tecnoglass´ coatings and configurations feature an extensive range of sizes, colors, patterns, printing and edgework solutions that allow architects to explore and take advantage of more variables in the project's design. Maximizing benefits like low solar heat gain coefficient and UV transmittance without compromising its aesthetics. All of our Low-E coatings meet the requirements of the HVAC systems, saving energy costs and reducing carbon emissions.

TECNOGLASS R-Series

The R-Series is a full range of high-performance "*cool crisp*" aesthetic insulating Low-E glass that offers low to high reflectivity and visibility and a low solar heat gain coefficient. These coatings have a neutral brightness that enhances the appearance of low-iron glass as well as various tinted glass.

TECNOGLASS N-Series

The N-Series is a full range of high performance neutral to silver blue aesthetic insulating Low-E glass developed to enhance solar control and energy efficiency while offering neutral aesthetics. These coatings offer high levels of transparency which allows the natural daylight pass through even as it reduces glare and UV transmittance.

Aloft Chicafo Mag Mile
Chicago, IL

TG 47/31 on Optigray

Wentworth Multi-Pupose Academic Center
Boston, MA

TG N70/38 on clear

USFSP Kate Tiedemann College of Business
St. Petersburg, FL

TG SB 70XL on clear

UM Thomas P. Murphy Design Studio
Miami, FL

TG N40/22 on clear

500 Waverly
New York City, NY

TG N70/38 on clear

Washington University School of Medicine - Mid Campus Center
St. Louis, MO

TG SB Z50 VT on optiblue

Solar Control with the Latest Low-E Technology

Features

Low U-Values

Superior aesthetic

Diverse ranges of reflexivity

Insualting laminated, heat strengthened and bent glass available

Extensive range of colors, patterns and designs for different projects

License to process Solarban 60, Solarban 70 and Sungate 400

Advantages

Heat control and energy efficiency

Protection against UV radiation

Optimum light transmission

Provides maximum daylight, transparency and improves visibility

Low-E *Series*

TECNOGLASS

The Power of **Quality**

Low-E Series

TECNOGLASS
The Power of Quality

1" IGU INSULATING GLASS DATA - DOUBLE GLAZED

1/4" (6mm)/ 1/2" (12,7 mm) a.s./ 1/4" (6mm)

Product	Outboard - Inboard Substrate	Visible			Solar		U-Value		Shading Coefficient (SC)	Solar Heat Gain Coefficient (SHGC)	Light to Solar Gain (LSG)
		Trans.	Refl. Ext	Refl. Int	Trans.	Refl. Ext	Winter	Summer			
R32/22	Clear + Clear	32.6%	42.4%	12.8%	17.6%	46.0%	0.29	0.27	0.26	0.22	1.46
	Low Iron + Low Iron	34.0%	43.0%	13.0%	21.0%	55.0%	0.29	0.27	0.27	0.23	1.48
R36/23	Clear + Clear	36.4%	45.8%	21.3%	19.3%	48.6%	0.29	0.27	0.27	0.24	1.5
	Low Iron + Low Iron	38.0%	47.0%	22.0%	23.0%	58.0%	0.29	0.27	0.28	0.25	1.25
R43/28	Clear + Clear	41.3%	35.6%	14.5%	22.7%	41.1%	0.29	0.27	0.32	0.28	1.46
	Low Iron + Low Iron	45.0%	35.0%	14.0%	28.0%	49.0%	0.29	0.27	0.35	0.31	1.45
R47/31	Clear + Clear	46.9%	32.4%	15.6%	25.5%	39.8%	0.29	0.27	0.35	0.31	1.52
	Low Iron + Low Iron	49.0%	33.0%	16.0%	30.0%	48.0%	0.29	0.28	0.37	0.32	1.53
R53/33	Clear + Clear	52.4%	33.2%	22.4%	27.4%	42.0%	0.29	0.27	0.37	0.32	1.62
	Low Iron + Low Iron	55.0%	34.0%	23.0%	32.0%	51.0%	0.29	0.27	0.39	0.34	1.26
R59/37	Clear + Clear	57.4%	29.5%	21.7%	30.5%	39.9%	0.29	0.27	0.41	0.36	1.37
	Low Iron + Low Iron	60.0%	30.0%	23.0%	36.0%	48.0%	0.29	0.28	0.44	0.38	1.58
R44/21	Clear + Clear	43.8%	26.3%	22.6%	17.0%	44.8%	0.29	0.27	0.24	0.21	2.09
	Low Iron + Low Iron	46.0%	27.0%	24.0%	18.0%	55.0%	0.29	0.27	0.24	0.21	2.19
N31/18	Clear + Clear	31.0%	21.0%	20.0%	13.0%	33.0%	0.29	0.27	0.2	0.17	1.67
	Low Iron + Low Iron	32.0%	21.0%	21.0%	14.0%	39.0%	0.29	0.28	0.21	0.18	1.78
N40/22	Clear + Clear	39.2%	14.2%	12.1%	18.1%	22.0%	0.29	0.27	0.28	0.24	1.56
	Low Iron + Low Iron	41.0%	14.0%	12.0%	20.0%	26.0%	0.29	0.27	0.29	0.25	1.64
N48/25	Clear + Clear	48.0%	13.0%	11.0%	21.0%	27.0%	0.29	0.27	0.3	0.26	1.78
	Low Iron + Low Iron	50.0%	12.0%	11.0%	23.0%	32.0%	0.29	0.27	0.31	0.27	1.85
N70/38	Clear + Clear	72.7%	11.7%	12.0%	35.1%	34.1%	0.29	0.27	0.46	0.4	1.79
	Low Iron + Low Iron	72.0%	11.0%	12.0%	36.0%	41.0%	0.29	0.27	0.47	0.41	1.76
N76/60	Clear + Clear	76.1%	13.3%	13.2%	50.8%	15.8%	0.32	0.30	0.68	0.59	1.28
	Low Iron + Low Iron	80.0%	14.0%	14.0%	65.0%	20.0%	0.32	0.31	0.78	0.68	1.18
NT52/22	Clear + Clear	51.5%	12.8%	13.4%	18.7%	38.8%	0.29	0.27	0.26	0.22	2.21
	Low Iron + Low Iron	52.0%	13.0%	13.0%	19.0%	49.0%	0.29	0.27	0.26	0.22	2.36
SB70	Clear + Clear	64.0%	12.0%	13.0%	25.0%	52.0%	0.28	0.26	0.32	0.27	2.37
	Low Iron + Low Iron	68.0%	13.0%	14.0%	26.0%	54.0%	0.28	0.26	0.32	0.28	2.43

The results represent Center-of-Glass performance data based on NFRC 100 Environmental Design Conditions utilizing the LBNL Window 7.3 software program. Performance data is based on representative samples of factory production. Actual values may vary slightly due to variations in the production process. This data is to be used for comparison purposes and should not be considered a contract. It is the recipient's responsibility to entire the manufacturability of the above glazing configurations as well as evaluating appropriate design considerations such as wind and snow load analysis, thermal stress analysis, and local building code compliance. Tecnoglass recommends that a full size mock-up be reviewed under the specific job-site conditions and retain the mock-up as a basis of acceptable product. Note: Be aware that laminated glazing constructions may have increased optical distortion and/or strain iridescence from stacked multiple individual layers especially when the glass lites are heat treated. In addition transmitted and reflective color differences can occur when a Low-E or reflective coating is located adjacent to the interlayer material. A coating facing an airspace in an IG unit may appear a different color than the same coating in a laminate. Dark inboard tint when used with clear Low-E outboard can increase regular color shift effect.

Low-E Series

TECNOGLASS
The Power of **Quality**

9/16" LAMINATED GLASS DATA

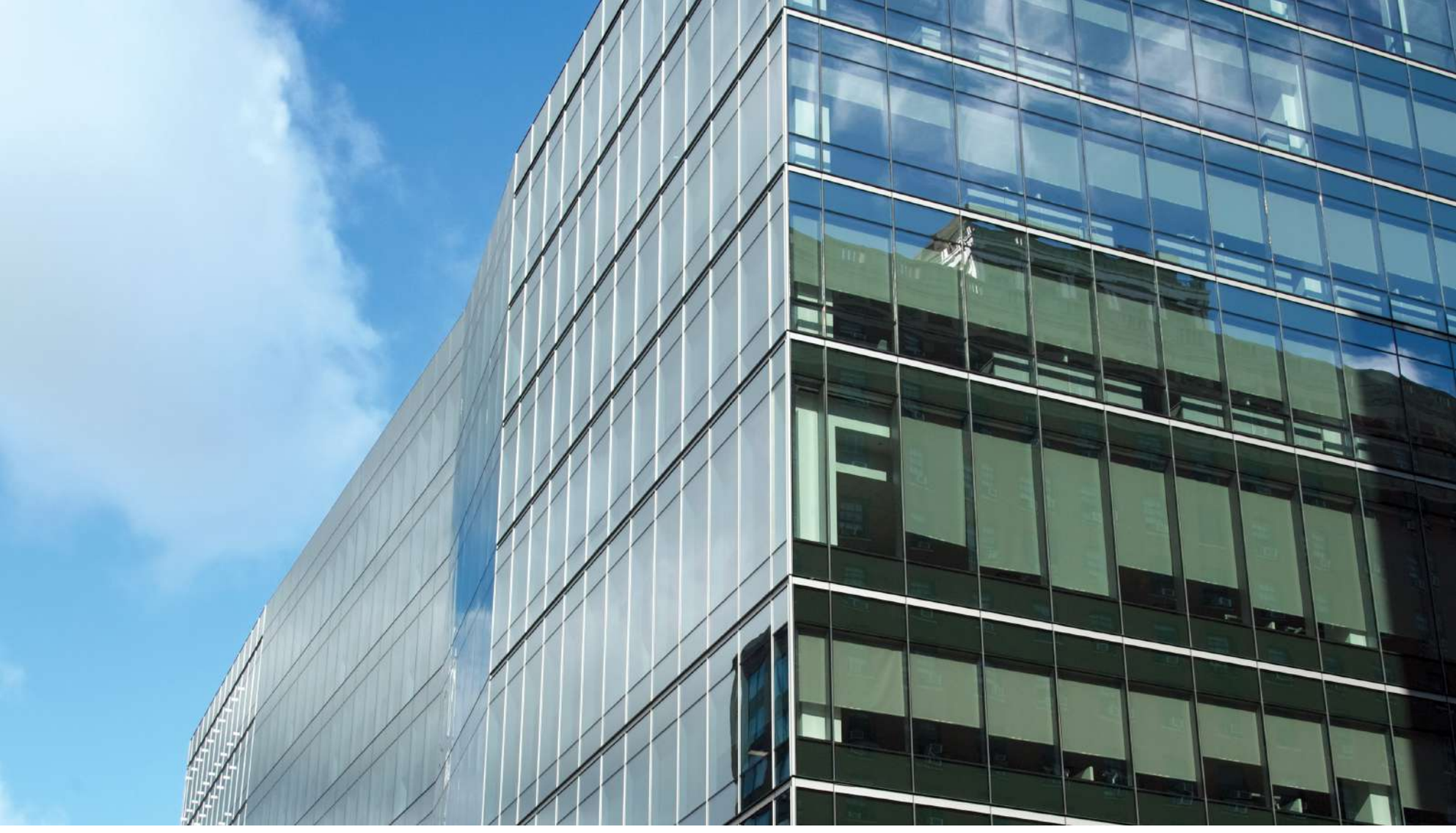
1/4" (6mm) + 0,060 PVB + 1/4" (6mm)

See more options and try
our glass performance calculator
at **www.tecnoglass.com**

Product	Outboard - Inboard Substrate	Visible			Solar		U-Value		Shading Coefficient (SC)	Solar Heat Gain Coefficient (SHGC)	Light to Solar Gain (LSG)
		Trans.	Refl. Ext	Refl. Int	Trans.	Refl. Ext	Winter	Summer			
R36/23	Clear + Clear	34%	48%	26%	19%	50%	0.95	0.86	0.33	0.29	1.21
R43/28	Clear + Clear	40%	36%	17%	23%	42%	0.95	0.86	0.39	0.34	1.18
R47/31	Clear + Clear	47%	33%	19%	26%	40%	0.95	0.86	0.43	0.37	1.27
R53/33	Clear + Clear	54%	32%	24%	29%	41%	0.95	0.86	0.44	0.38	1.42
N70/38	Clear + Clear	72%	9%	10%	33%	28%	0.95	0.86	0.52	0.45	1.60
	Low Iron + Low Iron	76%	9%	10%	38%	40%	0.95	0.86	0.51	0.45	1.69
SB70	Clear + Clear	60%	14%	16%	23%	50%	0.95	0.86	0.36	0.32	1.88
	Low Iron + Low Iron	69%	15%	17%	26%	54%	0.95	0.86	0.37	0.32	2.16

Cook County Central Campus Health Center
Chicago, IL

TG R53/33 on optiwhite
R53/33 striped frit on optiwhite



ARCHITECTURAL GLASS

www.tecnoglass.com

V1 - March 2019

TECNOGLASS

The Power of **Quality**

QUALITY SEAL icontec · ISO 9001 icontec · ISO 14001 icontec · OHSAS 18001 icontec

IQNet

IGCC
INSULATING GLASS CERTIFICATION COUNCIL

SGCC
Safety Glazing Certification Council

Vitro Certified™
INTERNATIONAL FABRICATOR