ISOLAR NEUTRALUX® connect





BETTER RECEPTION, LESSER ELECTROSMOG – WITH THE INNOVATIVE NEUTRALUX[®] CONNECT

Be it in your own home, in office buildings or in public institutions, modern thermal insulation glazing attenuates cellular frequencies to such an extent that in many indoor spaces, the reception of data and telephone calls is often only possible to a very limited extent. ISOLAR® offers a solution for this problem: NEUTRALUX® connect. The innovative product enables good mobile phone reception inside buildings by transmitting all common mobile phone frequencies – including the new 5G standard.

The coating is durable and maintenance-free. What's more, you can also retrofit NEUTRALUX[®] connect on existing window installations without any problem. Tests have shown that with NEUTRALUX[®] connect, the transmission of mobile-radio signals increases by a factor of 1000 in a double-glazing insulating glass compared to a conventional thermal

insulation glazing. If you are using a modern triple glazing, the transmission of mobile-radio signals improves, in fact, by a factor of 10,000. Besides, the thermal insulation properties of the insulating glass remain almost completely intact. Also, its strength is not reduced by the coating.

Another great advantage of NEUTRALUX[®] connect: this technology helps reduce electrosmog inside the building. Since the coating guarantees high transmission values, smartphones and tablets need to ramp up their output power to a considerably lesser degree in order to receive data. This reduction in output power and energy consumption also conserves the battery, which ultimately helps in extending the running time of the mobile device.

YOUR KEY BENEFITS AT A GLANCE

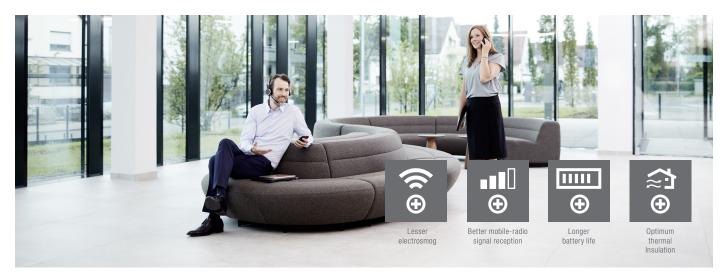
- Optimized reception of broadband data even with 5G
- Easy to retrofit, maintenance-free and durable
- All thermal insulation and low-energy requirements can be met
- Reduction of indoor electrosmog
- Available as float glass or laminated safety glass (LSG)
- Can be easily fabricated to any size
- Longer battery life





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The fine, almost invisible structure of NEUTRALUX[®] connect in detail: It enables improved transmission of mobile-radio signals in thermal insulation glazing and thus significantly improved mobile-radio signal reception indoors.



The innovative, radio-transparent NEUTRALUX[®] connect enables optimum reception of mobile-radio data signals in buildings with thermal insulation glazing. NEUTRALUX[®] connect is designed in such a way that the insulating properties of the glass remain virtually unchanged and all low-energy requirements for thermal insulation can be met without any problem. NEUTRALUX[®] connect also helps reduce electrosmog and extend the battery life of mobile devices.

TECHNICAL DETAILS – AN OVERVIEW

Basic Glass	Glass Construction Outer/Cavity/Mid/Cavity/Inner mm					EN 410						
						Light Transmission*	Light Reflection external* %	Light Reflection internal* %	g-Value*	Colour Rendering Index R *	Ug-Value (90% Argon) W/(m²K)	Thickness**
						%						
NEUTRALU	X® connect	N10 /	//									
Floatglas	4 16	:	4			70	22	23	51	97	1,2	24
NEUTRALU	X® connect	N10 /	///									
Floatglas	4: 14	2	4	14	:4	56	32	32	37	95	0,7	40
NEUTRALU	X® connect	N34,	//									
Floatglas	4 16	5	4			82	12	12	65	98	1,2	24
NEUTRALU	X® connect	N34,	///									
Floatglas	4: 14	2	4	14	:4	74	15	15	54	97	0,7	40

* The specified functional values have been determined in accordance with the relevant and applicable testing standards and legal requirements, as per the testing dimensions and testing conditions required or described therein. Formats and combinations deviating from these, like, for instance, glass-thickness modifications due to building statics, can lead to change in individual functional values. The specified values refer solely to glass elements. The values for components depend largely on the frame construction.

** Tolerance depends on type.

WE'RE HERE TO HELP.

When it comes to glass, ISOLAR GLAS Beratung GmbH is your expert partner. We turn your requests into clear solutions. Just ask us what we can do for you.

ISOLAR GLAS Beratung GmbH, Otto-Hahn-Straße1, D-55481 Kirchberg, Germany Tel.: +49 6763 521, Email: service@isolar.de, www.isolar.de | Version 01/22

