



# GEWE®-com connect INTELLIGENT CONNECTIONS FOR TODAY AND TOMORROW

The integrated solution for insulating glass that allows the otherwise almost completely shielded mobile communications frequencies to pass through, thereby ensuring that the signals also arrive in the building.

It's hard to imagine life without using mobile devices such as smartphones, tablets and so on in our daily lives. Parallel to the development of digital device applications, insulating glass also continued to develop. Triple insulating glazing with two low-e coatings has become a standard for achieving the required thermal insulation properties.

However, the low-e coatings reflect not only the thermal radiation. An unwanted side-effect is almost complete shielding of the high-frequency waves that are necessary for mobile communications. Behind a modern, all-glass facade, mobile telephoning or mobile data reception are no longer possible in many cases. The current solution of transporting mobile communications signals into the interior of a building through special transmitters and receivers is related to major, additional technical expenses. GEWE®-com connect allows the direct transmission of mobile communications signals through the window with only marginal changes to thermal insulation properties, and thereby provides an economical alternative in which there is mostly no need for the additional, technical expenses.

SCHOLLGLAS has developed intelligent processes that reduce the unwanted attenuation of mobile communications signals significantly. The classical technical data of the insulating glass, such as the thermal transmission coefficient  $U_g$ , light transmission  $LT$ , energy transmittance  $g$  and so on are only changed marginally by upgrading to GEWE®-com connect.

When using GEWE®-com connect, the transmittance of the mobile communications signals increases more than 100-fold compared to a low-e coated window.

Also, for health reasons, good network quality is the way to have to lower exposure for the users. The weaker the high-frequency connection, the more the end device tries to compensate by increasing radiant power, which also goes along with considerably reduced battery times due to the increased power consumption.

## Product properties

- transmission of mobile communications signals
- reduction of personal radiation exposure
- maintenance of the technical properties of the insulating glass
- optically hardly perceivable

## Product benefits

- mobile telephoning and mobile data reception even behind modern glass facades
- no expensive technical solutions required of the mobile communications provider
- easily retrofitted by reglazing without changes to the window or facade



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