

LOW CARBON GLASS



TUFFX

GLASS MANUFACTURERS

TECHNICAL BROCHURE

MADE IN BRITAIN[®]

[TUFFXGLASS.CO.UK/
LOW-CARBON-GLASS](https://tuffxglass.co.uk/low-carbon-glass)

0845 3400 200

LOW CARBON GLASS

THE IMPORTANCE OF SHIFTING TOWARDS SUSTAINABLE MANUFACTURING

The building sector is responsible for **more than one third of the EU's carbon emissions** with buildings accounting **for over 40% of the energy** consumed.

With more focus than ever on lowering the embodied carbon in construction, **demand for low carbon building materials is increasing.**

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WELCOME TO THE FUTURE OF SUSTAINABLE BUILDING

TuffX Glass introduces LOW CARBON GLASS - the world's first low carbon glass, designed for environmentally conscious projects without compromising on quality and performance.

LOW CARBON GLASS KEY FEATURES

64%

RECYCLED CONTENT

High amount of external cullet.
Use of renewable electricity throughout the production process.

6.64kg

CO₂ CONTENT

Eq./m² for 4mm of low carbon glass.

LESS 42%

CARBON FOOTPRINT

When compared with common glass production.

APPLICATIONS

CURRENTLY AVAILABLE FOR

Balustrades, greenhouses, conservatory roofs and Padel courts.

COMING SOON

All TuffX glass applications will transition to Low Carbon Glass.



OUTSTANDING ENVIRONMENTAL PERFORMANCE

TuffX's commitment to sustainability is reflected in the exceptional performance of LOW CARBON GLASS, offering exactly the same aesthetics as the regular clear float glass.

TuffX's LOW CARBON GLASS is a basic soda-lime silicate glass produced using the float procedure to be used in building, furniture & industrial applications.

It is in conformity with the European Standard EN 572-2.

DECLARATION OF THE MAIN PRODUCT COMPONENTS



The product is 100% glass CAS number 65997-17-3.
There is no "Substance of Very High Concern" (SVHC) in concentration above 0.1% by weight, following the European REACH regulation (Registration, Evaluation, Authorisation and Restriction of Chemicals).

EPD ENVIRONMENTAL PRODUCT DECLARATION



Our LOW CARBON GLASS has verified EPDs, available on the Environdec website. Our product stages include the extraction and processing of raw materials and energy, ensuring transparency and sustainability throughout the lifecycle.

THICKNESS OPTIONS TECHNICAL SPECIFICATIONS



Monolithic Glass Thickness Options: 4mm, 5mm, 6mm, 8mm, 10mm and 12mm.
Laminate Glass Thickness Options: 11.5mm, 12.5mm, 17.5mm, 21.5mm and 25.5mm.

LOW CARBON GLASS APPLICATIONS



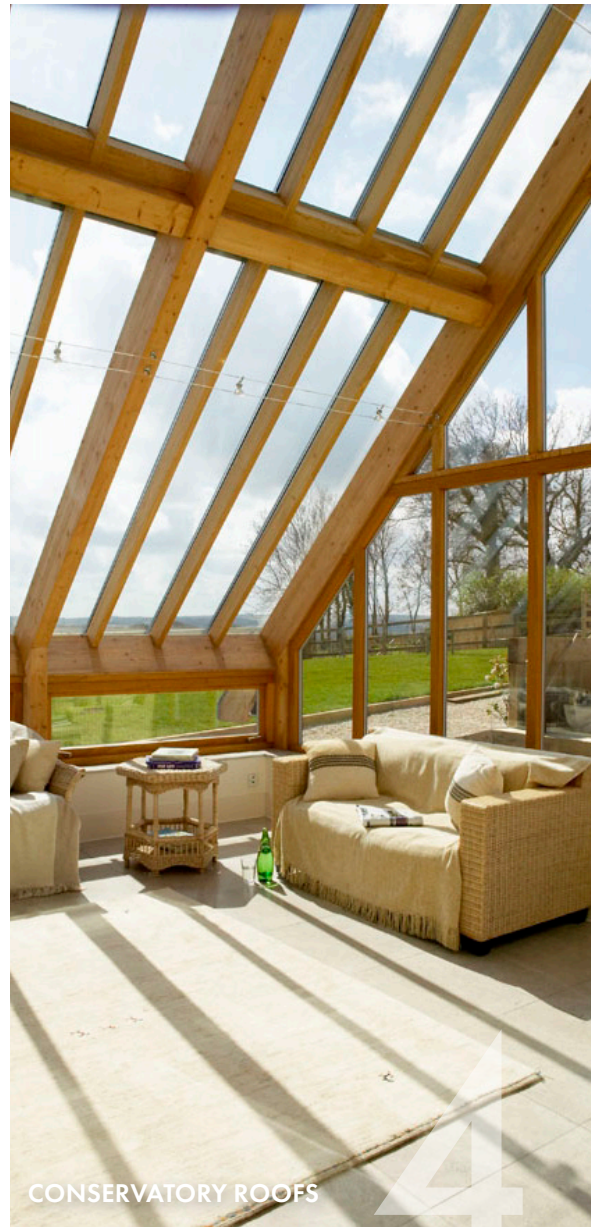
PADEL COURTS



GREENHOUSES



BALUSTRADES



CONSERVATORY ROOFS



GLASS CANOPIES

LOW CARBON GLASS



JOIN FORCES WITH TUFFX
AND BECOME A PARTNER

PARTNERING FOR A GREENER FUTURE

Explore the collaborative opportunities with LOW CARBON GLASS through our partnership strategy, built on trust, support and shared success.

TuffX offers a unique partnership model, inviting a select number of UK partners to join us in introducing LOW CARBON GLASS nationwide. With a handshake agreement rooted in trust, our partners benefit from geographical exclusivity, collaborative marketing efforts and agreed sales levels over defined periods.

Together, we can redefine the future of sustainable building and drive mutual growth and prosperity.

3 SIMPLE STEPS

STEP 1

Email us expressing your interest to sales@txpro.co.uk

STEP 2

Our team will check your company's geographical coverage and will share with you the demanded KPIs

STEP 3

Partnership promise is agreed and you are now a TUFFX Partner for LOW CARBON GLASS.

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LOW CARBON GLASS



OUR COMMITMENT TO EXCELLENCE

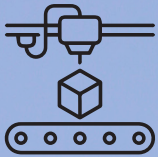
TuffX Processed Glass Ltd. has over thirty years experience in specialist, toughened safety glass manufacturing. TuffX is established as one of the UK's most progressive, customer-oriented companies.

At TuffX, we prioritise transparency, ensuring clear communication, product availability and reliable delivery. Our commitment extends to addressing any concerns promptly, including damages and returns, and providing comprehensive warranties for peace of mind.

Trust TuffX to deliver on our promises, supporting you every step of the way.



WHAT TO EXPECT AS A LOW CARBON GLASS OFFICIAL PARTNER



**HIGH-QUALITY
MANUFACTURING**



**FAST
DELIVERY**



**MARKETING
SUPPORT**



**SUPPORT
MEETINGS**



TUFFX LOW CARBON GLASS TECHNICAL BROCHURE

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2025-2026



ONLINE / CONTACT

W: tuffxglass.co.uk

T: 0845 3400 200

sales@txpro.co.uk

TUFFX
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glow
Heated Glass by Tuffx

ambience
CONSERVATORY ROOF GLASS BY TUFFX

infinity
ROOF LIGHT SOLUTIONS BY TUFFX

MADE IN BRITAIN®

Nexus House,
Randles Rd,
Knowsley Business Park,
Knowsley, Prescot
L34 9HX