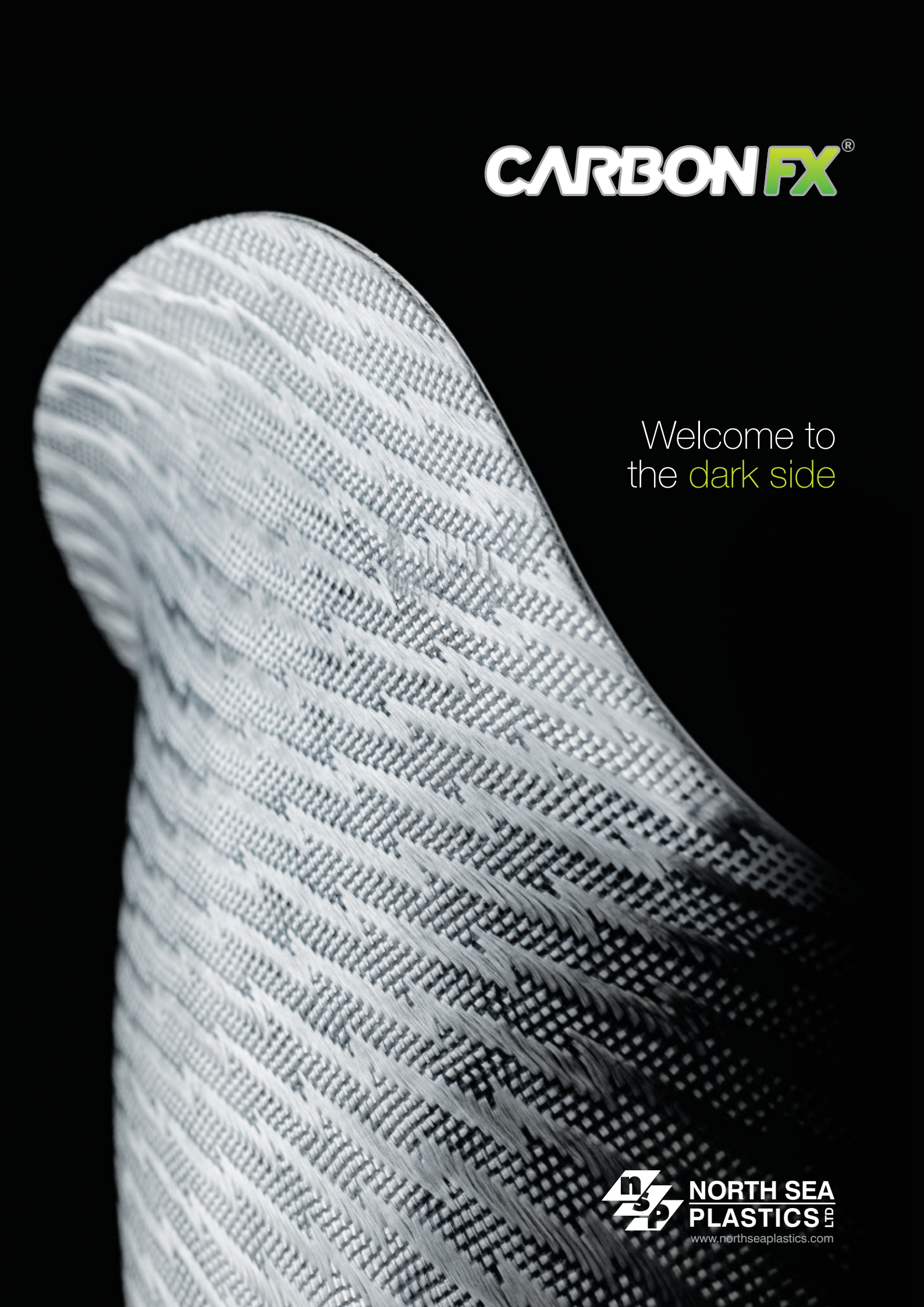
CARBONFX®



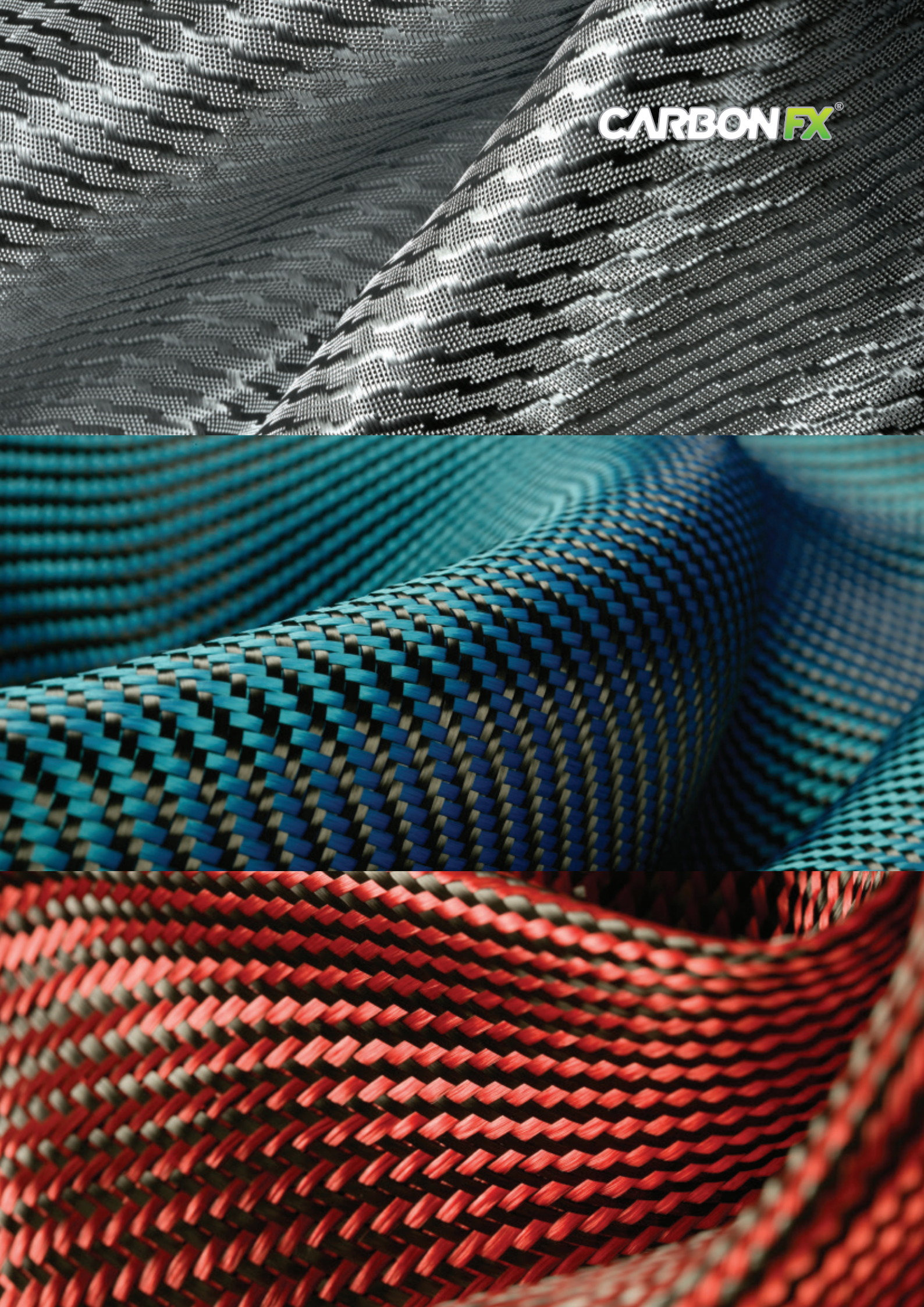
Welcome to
the dark side

NORTH SEA
PLASTICS LTD
www.northseaplastics.com

An evolution of your sockets, a revelation for your customers

North Sea Plastics Ltd introduces CarbonFX, a range of materials designed to provide a distinctive and decorative final layer on laminated prosthetic sockets.

As attitudes change, there has been an increase in demands from amputees to personalise their prosthetic sockets. CarbonFX is able to provide a simple, and highly effective solution to meet this rising demand.

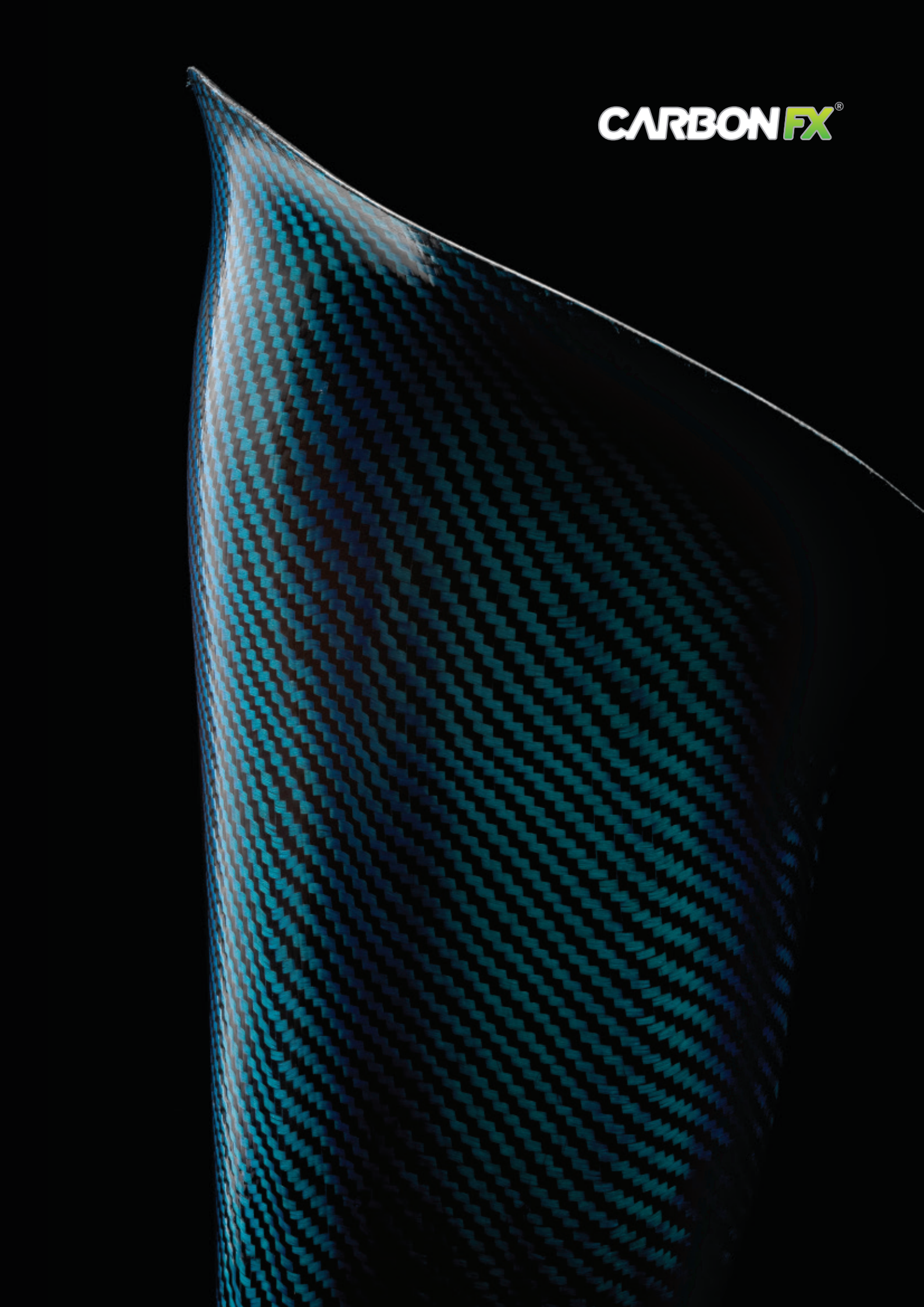

CARBONFX®

We're changing the rules for prosthetics & orthotics

Initially available in six different styles, CarbonFX creates a fantastic looking laminated prosthetic socket, with no requirement for special techniques, extra workshop equipment, or any changes to current standard lay up practices. The CarbonFX range has been tested, and is compatible, with acrylic, epoxy and polyester resin systems.

CarbonFX is to be used for decorative purposes and should not be considered as part of the structural integrity of the laminated socket.

It is important to note that the intensity of colour displayed by the material prior to lamination is reduced by the infusion of resin during the lamination process. Please use finished articles or images of finished articles for demonstration purposes.


CARBONFX®

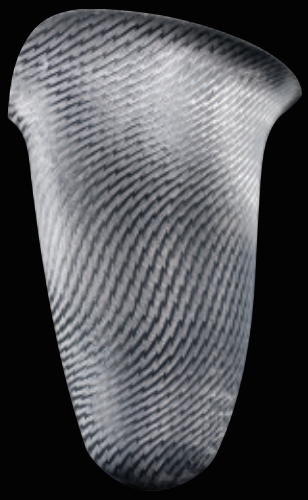
Colours

CFXRB | Carbon Red

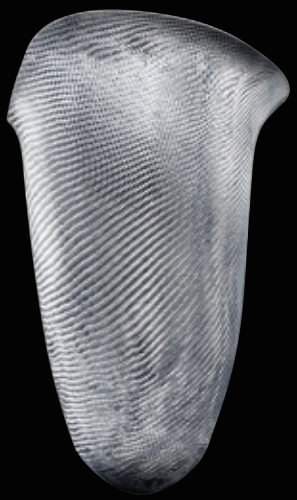
CFXGB | Carbon Green

CFXBB | Carbon Blue

CFXRL | Red Lite



CFXSS | Silver Shadow



CFXSL | Silver Lite

The colours illustrated here are as accurate as the printing process will allow but of course cannot be 100% accurate. Contact us for material samples and further information.

CARBONFX®

Technical Advice

CarbonFX® is a range of decorative carbon/glass mattings used to add a touch of uniqueness to your laminated sockets. Even though CarbonFX® is made from carbon and glass fibres, it is not to be used as a replacement structural layer to your pre-existing lamination layups.

After the last layer of reinforcing material has been applied to the socket, pull over a thin denier, tie into componentry at distal end, and reflect back down and secure to vacuum pipe.

Using a suitable size of paper, starting from the mid-line of the posterior of the socket, wrap the paper laterally around to make a pattern. You want the pattern's seam to start and end at the mid-line of the posterior of the socket. Leave enough of the pattern on the distal end so the CarbonFX® can be tied into the componentry. Excess material at the proximal end can be tidied up later.

Lay out enough CarbonFX® material on a clean flat surface, and place your pattern on top. Outline all the edges of the pattern onto the CarbonFX® with double sided tape, and then cut through the middle of the double sided tape. This serves two purposes, the double sided tape will assist with adhering the CarbonFX® to the thin denier, and it also stops the edges of the CarbonFX® fraying.

Your shaped sheet of CarbonFX® can now be wrapped around the socket in the same manner as the pattern was.

Starting from the mid-line of the posterior of the socket, remove the backing from the double sided tape, and secure to the socket making sure to keep the seam straight. Use spray adhesive on the socket and wrap the CarbonFX® around laterally. You will notice that your end seam is no longer straight, as contours of the socket will pull on the CarbonFX®. Once you have met up with your starting seam, gently pull off the starting seam, and stick down your ending seam. The starting seam is then stuck back down, leaving a nice clean straight seam.

The CarbonFX® can now be tied into the componentry at the distal end with a thin piece of nylon string, and the excess CarbonFX® cut off. (Once laminated, any ragged edges of CarbonFX® on the componentry can be trimmed away easily).

Use a little spray adhesive and stick the CarbonFX® down below the proximal trim lines, and cut away any excess.

Turn your PVA bag inside out before pulling over your socket, as this will give a glossy finish to the finished socket.

Laminate the socket with clear resin.

NORTH SEA PLASTICS LTD
www.northseaplastics.com

CARBONFX®

NORTH SEA PLASTICS LTD
www.northseaplastics.com

Unit 2, 5 Campsie Road, Kirkintilloch, Glasgow G66 1SL, Scotland UK.
Tel: +44(0)141 776 7900 | Fax: +44(0)141 776 6699