

Handle with *ease*, *repair* with confidence.¹

Biodesign® Dural Repair Products

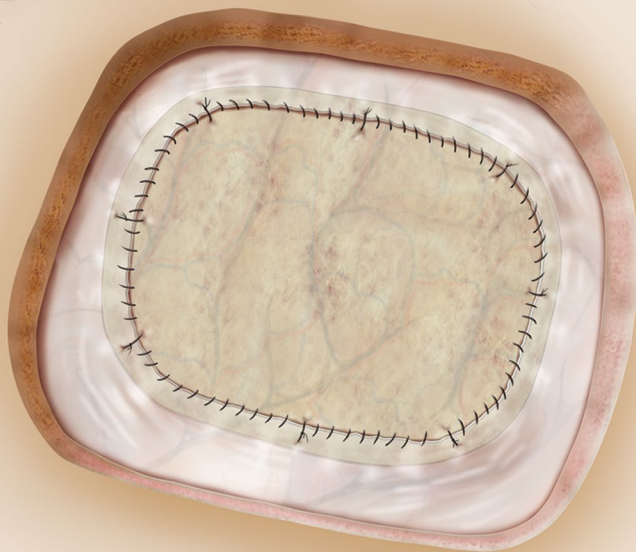


Illustration by Lisa Clark.

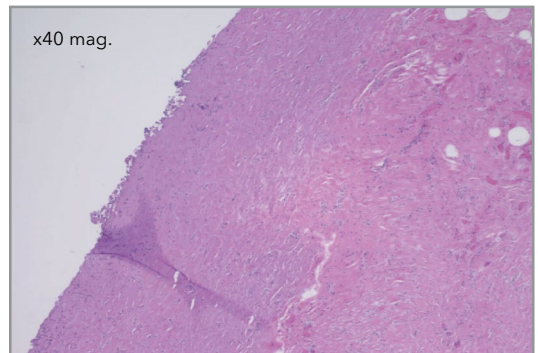
What is Biodesign?

Biodesign is a platform technology behind numerous tissue-repair products that span multiple medical specialties. Biodesign is natural extracellular matrix (ECM) derived from porcine small intestinal submucosa (SIS). The ECM is a complex latticework of proteins and structural molecules that helps guide the growth of cells.² Cook's proprietary processing methodology decellularizes the SIS material while preserving natural matrix molecules such as collagen, proteoglycans, and glycosaminoglycans.³ The result is a scaffold that, when implanted, provides a location for host cells to infiltrate and remodel into vascularized tissue.⁴

Microscopic view of the remodeling process³



Biodesign graft prior to implantation



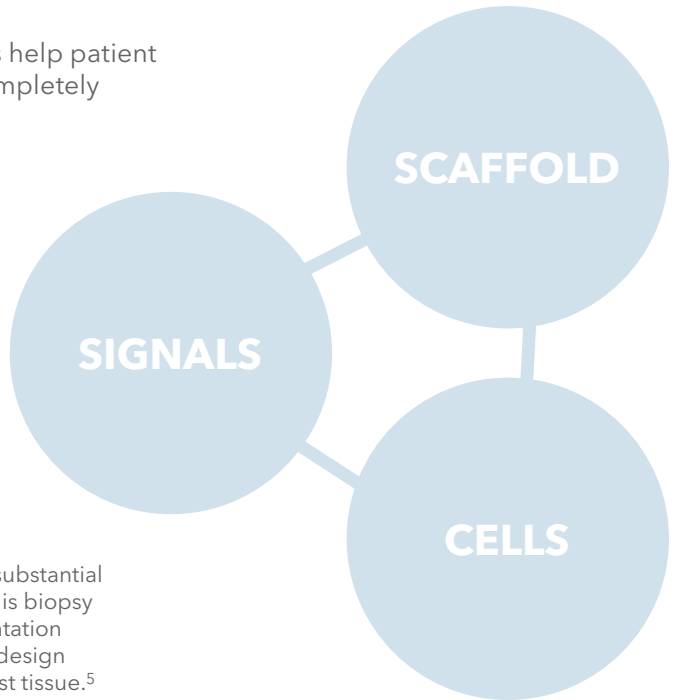
8 months after implantation

How does Biodesign work?

There are three essential components to healing: a scaffold, signals, and cells.

Biodesign's open lattice structure provides a scaffold for tissue ingrowth.⁴

The body's signaling mechanisms help patient cells infiltrate the scaffold and completely remodel into natural host tissue.



The Biodesign graft (left) allows for the substantial growth of organized tissue, as seen in this biopsy sample, taken eight months after implantation (right). The above images are of the Biodesign Plastic Surgery Matrix implanted in breast tissue.⁵

Handle with
ease,



Biodesign® Dural Graft

STRONG SEAL



The Biodesign Dural Graft is completely remodeled into natural host tissue, resulting in a post-op leak rate as low as 1.7%.¹

EXCELLENT HANDLING

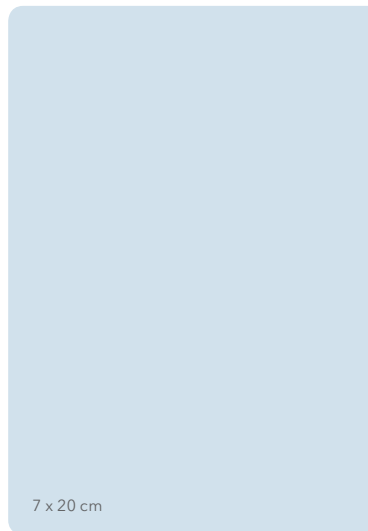
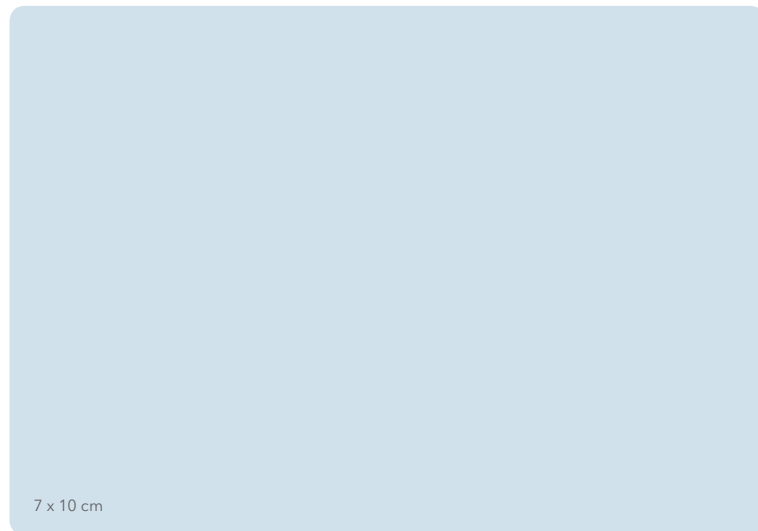
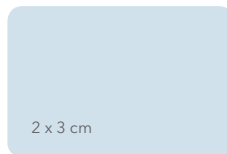
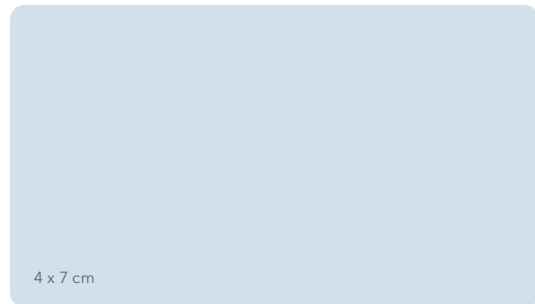


Biodesign material is easy to manipulate, doesn't swell with hydration, and doesn't fold onto itself.⁶

Biodesign® Dural Graft

Available product sizes

Shown at actual size.



Tips to help get the best possible results:



Ensure adequate blood supply.



Size the graft to allow for tissue overlap.

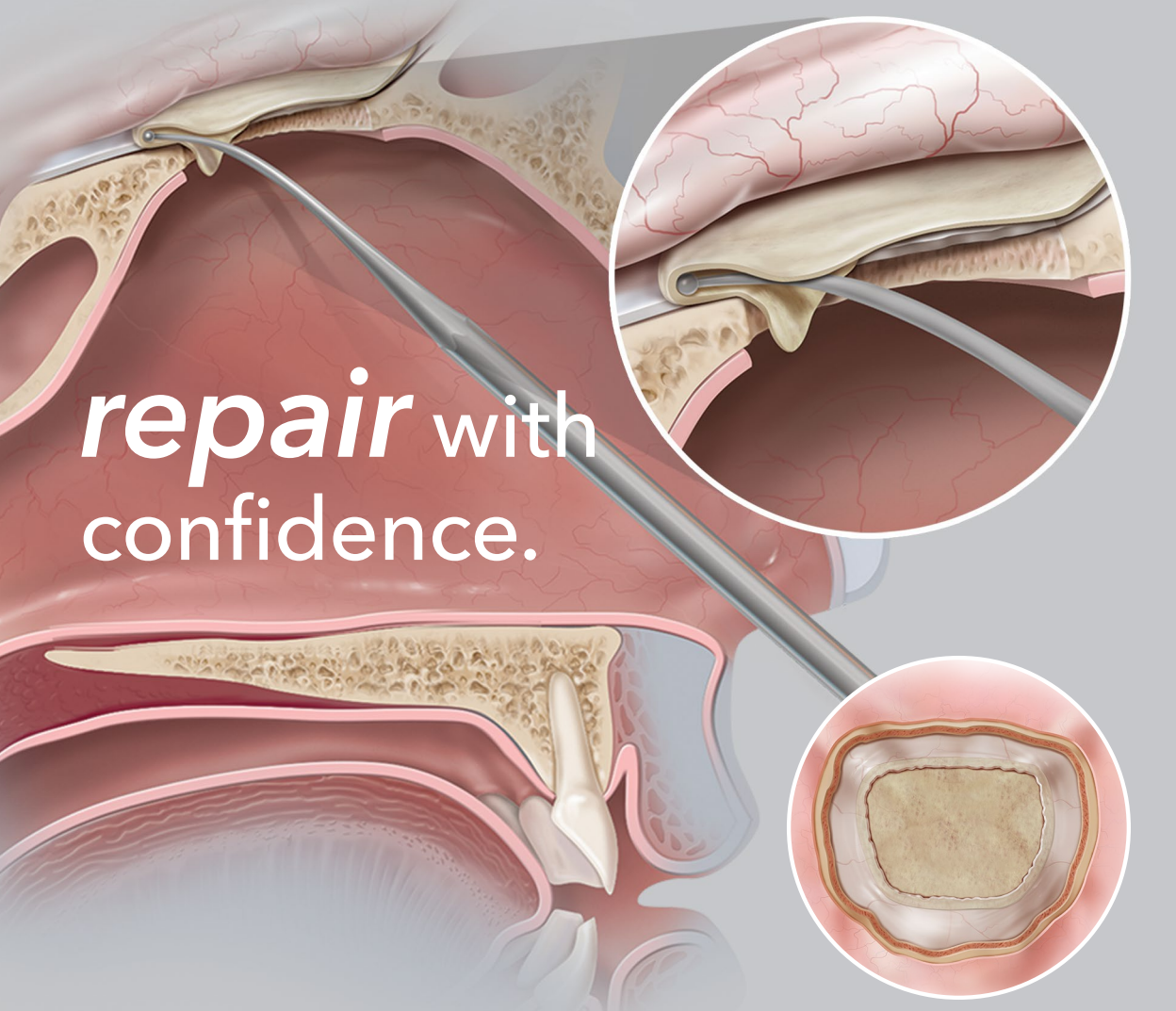


Hydrate for at least two minutes before placement.

Product ordering information

Order Number	Reference Part Number	Size cm	Nominal Thickness mm
Biodesign Dural Graft			
G57557	C-DUR-2X3-2	2 x 3	0.25
G57558	C-DUR-4X7-2	4 x 7	0.25
G57559	C-DUR-7X10-2	7 x 10	0.25
G57560	C-DUR-7X20-2	7 x 20	0.25

Some products or part numbers may not be available in all markets.
Contact your local Cook representative or Customer Service for details.



repair with
confidence.

The illustration shows a cross-section of a tooth and jawbone. A long, thin surgical instrument is positioned to perform a procedure on the bone. Two circular insets provide magnified views: the top inset shows the instrument's tip near a layer of tissue, and the bottom inset shows a square-shaped area of bone being prepared or treated.

Biodesign® Duraplasty Graft

**STRONG
SEAL**



**SUTURED/SUTURELESS
FIXATION**

The Biodesign Duraplasty Graft can be secured in place with or without sutures, depending on clinician preference.

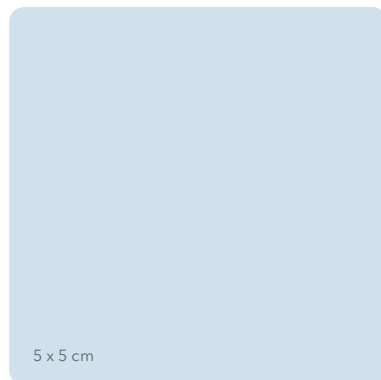
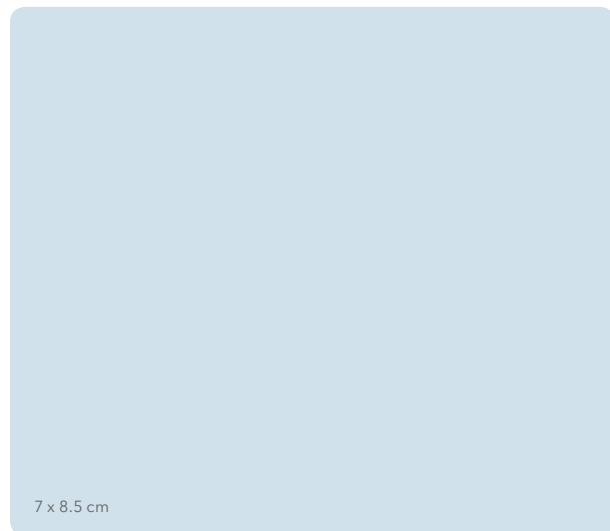
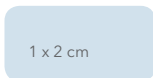
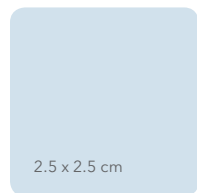
**EXCELLENT
HANDLING**



Biodesign® Duraplasty Graft

Available product sizes

Shown at actual size.



Tips to help get the best possible results:



Ensure adequate blood supply.



Size the graft to allow for tissue overlap.



Hydrate for at least two minutes before placement.

Product ordering information

Order Number	Reference Part Number	Size cm	Nominal Thickness mm
Biodesign Duraplasty Graft			
G57553	ENT-CBD-1X2-2	1 x 2	0.25
G57554	ENT-CBD-2.5X2.5-2	2.5 x 2.5	0.25
G57555	ENT-CBD-5X5-2	5 x 5	0.25
G57556	ENT-CBD-7X8.5-2	7 x 8.5	0.25

Some products or part numbers may not be available in all markets.
Contact your local Cook representative or Customer Service for details.

References

1. Bejjani GK, Zabramski J; Durasis Study Group. Safety and efficacy of the porcine small intestinal submucosa dural substitute: results of a prospective multicenter study and literature review. *J Neurosurg.* 2007;106(6):1028-1033.
2. Hubbell JA. Materials as morphogenetic guides in tissue engineering. *Curr Opin Biotechnol.* 2003;14:551-558.
3. Hodde J, Janis A, Ernst D, Zopf D, Sherman D, Johnson C. Effects of sterilization on an extracellular matrix scaffold: Part I. Composition and matrix architecture. *J Mater Sci Mater Med.* 2007;18(4):537-543.
4. Data on file. Cook Biotech Internal Report #D00199545.
5. Data on file. Cook Biotech Internal Report #D00199430.
6. Illing E, Chaaban MR, Riley KO, Woodworth BA. Porcine small intestine submucosal graft for endoscopic skull base reconstruction. *Int Forum Allergy Rhinol.* 2013;3(11):928-932.

Cover illustration by Lisa Clark.

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