

Detacouple[®] Structural Transition Joints

PRODUCT OVERVIEW

In shipbuilding, our Detacouple structural transition joints are the standard for permanent, aluminum-to-steel welds that connect aluminum superstructures and bulkheads to steel hulls, framing, and decks.

Detacouple structural transition joints have provided strong, maintenance-free, aluminum-to-steel welds for thousands of structures aboard today's marine vessels and offshore operations.

STANDARD GRADES AND DIMENSIONS

	STEEL	INTERLAYER	AL ALLOY	NOM. THICKNESS (IN)	MAXIMUM BAR LENGTH (IN)	BAR WIDTH (IN)
Detacouple™ 9009	A516 gr.55	Al 1100	Al 5086	0.75 (0.375+0.25+0.125)	144	0.75 to 36
Detacouple™ 9008			Al 5456	1.375 (0.75+0.375+0.25)		0.75 to 48
Stainless Detacouple™	316L	Al 1100 Titanium Ni 200	Al 5083	0.953 (0.375+0.25+0.078+0.125+0.125)	110	0.75 to 40
			Al 5456	1.578 (0.75+0.375+0.078+0.125+0.25)		

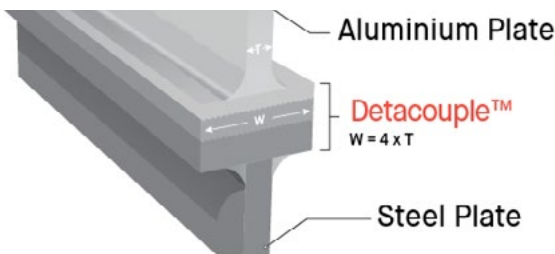
QUALIFICATION

Select products are available with certifications to MIL-J-24445A, ABS and NobelClad product specifications.

DESIGN

The width of the Detacouple must be at least four times (4x) the width of the connecting structural component. The connecting structural components should be placed in the middle of the Detacouple strip.

A webbing of 0.250" in the aluminum superstructure calls for a Detacouple strip at least 1.00" wide. This will result in a joint stronger than the webbing component while also providing for an improved heat sink during subsequent welding operations.



FABRICATION

When working with Detacouple, be mindful of the following restrictions:

- Never weld across the interface
- Never make sharp bends in the joint
- Never preheat the joint prior to welding
- Never allow the interface to exceed 300°C
- Never flame cut Detacouple

CONTACT US TODAY TO RECEIVE THE FULL WELDING GUIDE FOR DETACOUPLE TRANSITION JOINTS >>>