COMPARISON

Standing Seam vs. Traditional Jacketing

A side-by-side comparison of the two approaches to industrial tank insulation. Installation, lifecycle, total cost of ownership, and the field-failure modes most commonly observed.

	Traditional Jacketing	Enerpro Standing-Seam
Seam Type	Lap seams + sealant + fasteners	Mechanically folded double-lock standing seam
Sidewall Penetrations	Yes — screws/rivets through the weather face	None on the sidewall weather face
Sealant Dependence	Relies on sealant adhesion over time	Mechanical seal — no sealant aging
Insulation Core	Often fibrous board or blanket — can hold moisture if the envelope leaks	Specified to the application: closed-cell PIR (cold/cryo
Moisture Barrier	Variable; commonly absent or sealant-dependent	Surlyn® (by DuPont) heat-laminated to the interior face of
Installation	Scaffolding typically required; welding common	Scaffold-free; no welding on sidewalls
Failure Mode	CUI initiates at fastener and lap-seam pathways	Sealed envelope removes the typical CUI entry pathway
Service-Life Maintenance	Periodic re-sealing, re-jacketing, CUI inspection	Designed for 25+ years maintenance-free
Operating Temperature	Variable — depends on system and insulation core	Core specified to the application. Across material options
Origin	Often shipped from outside Canada	Built in Edmonton, Alberta — no cross-border friction

How to Read This Table

Traditional jacketing is a category, not a single product, and individual systems vary. The left-hand column describes the general failure modes most commonly observed in lap-and-fastener jacketing. The right-hand column describes the Enerpro Tank Panel System specifically — including the insulation cores we offer, depending on the application.

Total Cost of Ownership

First-cost comparisons between the two approaches do not capture the full economic picture. The relevant comparison is total cost of ownership over the asset life: jacketing replacement cycles, CUI inspection costs, downtime windows for remediation, and the eventual cost of any substrate corrosion that has progressed undetected.

Operators that have adopted standing-seam systems report the lifecycle case is materially different. We are happy to scope a project-specific comparison on request.

For a quote scoped to your tank, contact maxfab.ca or call 1-780-717-2956.

