

BE Peterson is excited to share the success of our recent partnership with [HighCom Armor](#), an effort that exemplifies our commitment to precise engineering, responsive support, and high-integrity fabrication for mission-critical industries. The collaboration focused on engineering, design, and fabrication of a pressure vessel and piping assemblies for their [XTClave™](#) System, all tailored to support HighCom's advanced ballistic armor manufacturing needs under rigorous ASME Code standards.

From our initial conversations in late 2023, the project was driven by consistent communication and a shared focus on technical excellence. Our dedicated Project Engineers worked closely with HighCom throughout every phase, ensuring that specifications remained the focal point and any challenges were addressed swiftly. This seamless coordination carried right through the delivery and installation of the vessel and piping to where HighCom held a commissioning ceremony for their XTClave™ System in July 2025.



BEP in attendance for HighCom's XTClave™ System commissioning ceremony July 2025

"BE Peterson supplied our company with a new pressure vessel to retrofit to our existing machine since our original lacked ASME certification. They hit their schedule and cost targets on the nose, provided a high-quality product, and went above and beyond supporting our project in other ways as well. I'd highly recommend them as an engineering partner, and if we build another machine, they will be the ones building it."

Paul McElhaney, HighCom Armor, Project Manager and Facility Development, Columbus, OH

Project Highlights:

- End-to-end partnership: Deep involvement from project scope discussion and design all the way through fabrication and assembly.
- Code-compliant builds: Pressure Vessel engineered and fabricated to meet ASME Section VIII Div. 2 standards.
- Dedicated project management: Technical requirements tracked and milestones coordinated with clear, consistent communication.

What sets this project apart is the unique functionality of XTClave™—a high-pressure system specifically engineered for HighCom's mission to provide exceptionally lightweight, thin, and durable ballistic armor. The XTClave™ System's higher operating pressure is ideal for producing intricate components with complex geometries and curvatures and ceramic-reinforced parts in a singular process, while reducing voids and strengthening bonding of materials. Vessel features like the Quick Access Closure, along with the cart loading system, contribute to both operational safety and efficiency, supporting HighCom's production of top-tier ballistic armor products.

BE Peterson's experience fabricating large-scale, custom ASME vessels for the defense and security industries ensured that HighCom's expectations for accuracy, safety, and code compliance were not only met but exceeded.

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