APA Case Study: HDO Plywood Panels Create Giant Gang Forms

Washington State Museum

**Plywood concrete forms played a key role in the construction**

- Union Station is a huge masonry structure built in 1911 with four vaulted arches forming a central dome. The objective in designing a new museum was to create a world class facility while retaining the architectural style of its neighbour, the former railway station.
- Plywood concrete forms played a key role in the construction of eleven 55-foot-high reinforced arches.
- Rather than form and pour each arch in a number of separate lifts, the construction team decided to construct each arch with a continuous pour. In complex concrete forming projects like this, plywood overlays such as HDO add dimensional stability and provide a smooth, durable surface.
- Over 4,000 sheets of HDO plywood were used to create the sections of the giant gang forms.
- By using HDO plywood, the panels were reused over seven times while pouring other arches.