

Kelly Klosure Buildings are available with a unique removable roof system to allow for easier access to large equipment for maintenance and removal or installation.

Roof sections are designed to be removed intact without disassembly of the structure.

Basic Procedure:

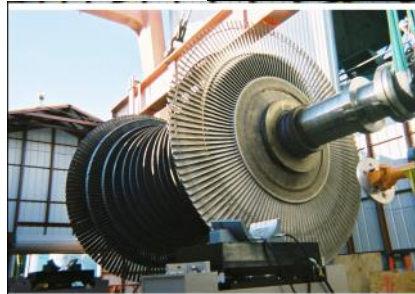
- Remove or unfasten building trim around removable roof section
- Unbolt perimeter of roof section from building eave and adjacent roof
- Attach rigging to picking points at building eaves
- Lift roof section vertically from building

Basic Design Features:

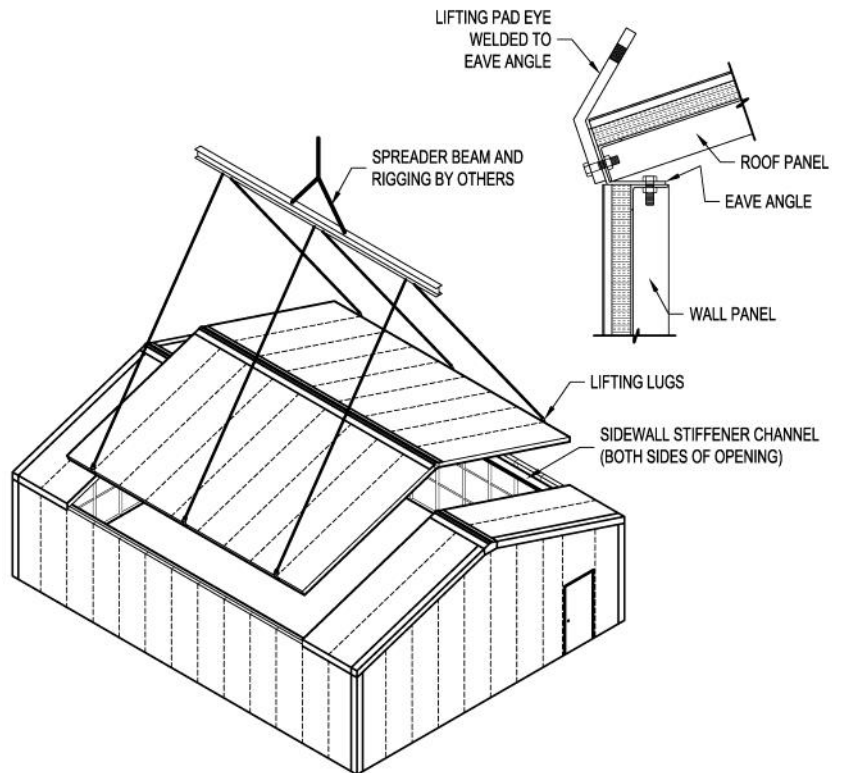
- Roof section designed to be removed during low wind conditions only. Building will meet specified wind loading with roof sections installed.
- Lifting pad-eyes factory welded to eave angles.
- Spreader beam and rigging specified and supplied by others.

Custom Design Features Available:

- For applications requiring more frequent roof removal, special formed steel overlaps at roof joints and custom eave connections can greatly increase speed of removal and reinstallation.
- For applications requiring longer term roof removal, the building can be designed for higher wind loading capacity with roof section removed.
- Lifting Lugs can be designed for site specific safety and rigging requirements with supporting documentation including structural calculations, weld inspections and proof load testing.



Roof Section Being Lifted From Building for Turbine Access during Power Plant Outage



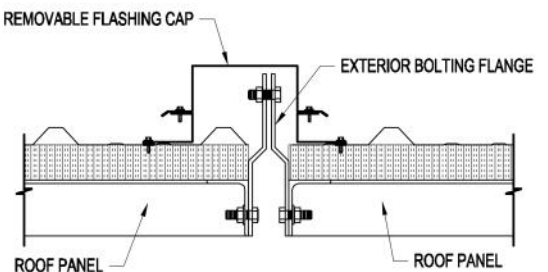
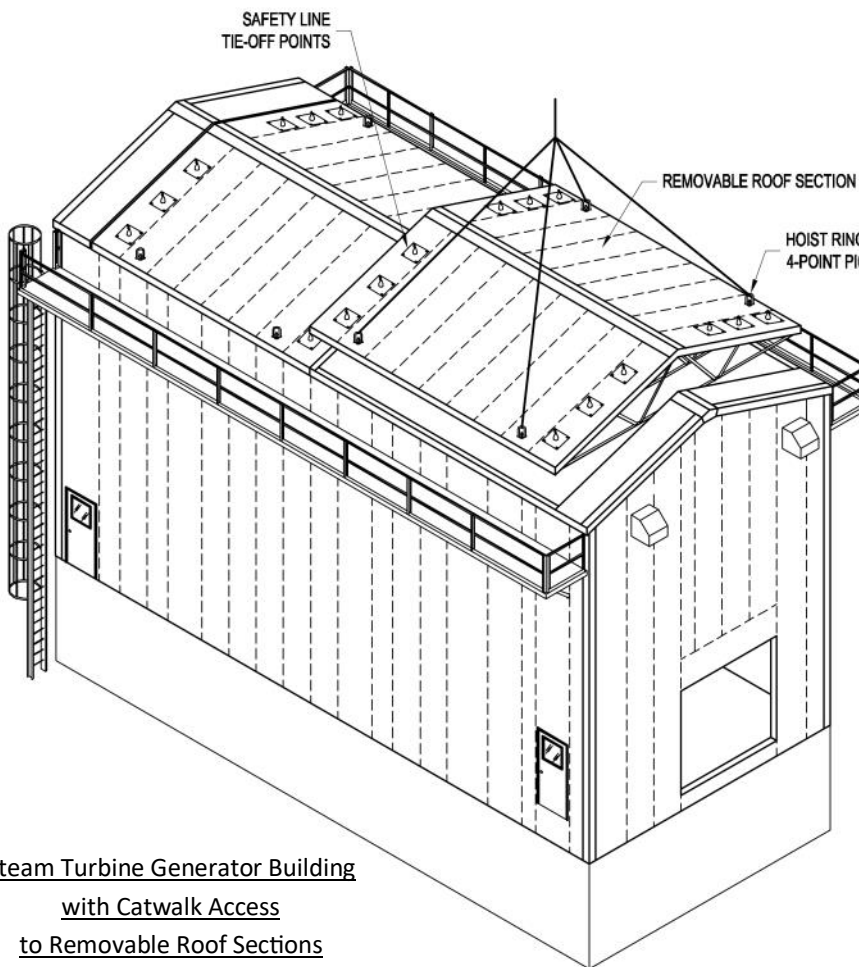
Typical Removable Roof Lifting Configuration & Lifting Pad-Eye Detail

Kelly Klosure Buildings can be designed with custom removable roof systems with the following features:

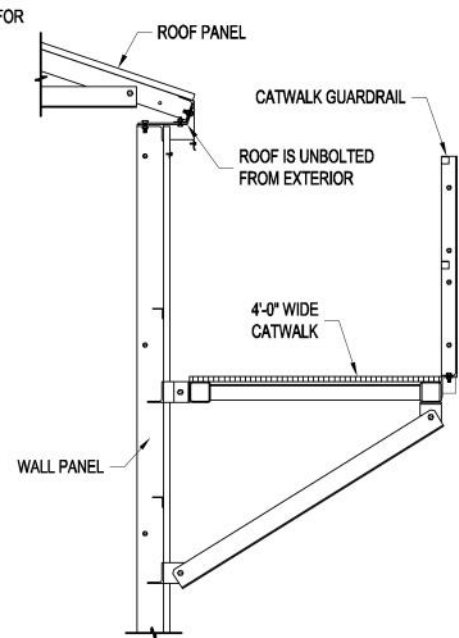
- Exterior Catwalk System gives access to roof connections and rigging points from exterior without need for man lifts.
- Roof Joints and Eave Connections designed for quick removal completely from exterior of building. No access to roof area is required from the interior of the building.
- Exterior Catwalks act as horizontal structural truss system supporting sidewalls against wind and seismic forces while roof sections are removed. This allows the building to retain its full structural capacity for wind and seismic with roof sections removed for long periods of time.
- Fall Protection Anchor Points are added to the roof sections to allow safe access to the roof joints.



Steam Turbine Generator Building
at Biofuel Power Plant in South Boston, VA



Roof Joint at Ends of Removable Roof Section



Eave and Catwalk Detail

Steam Turbine Generator Building
with Catwalk Access
to Removable Roof Sections