



CASE STUDY



THE PROJECT

JBS Fabrication Ltd (JBS) were contacted by a major International company who are a global leader in subsea, onshore, offshore and surface technologies. They required assistance to upgrade their internal and external pressure test bays to include a roof protection system. With 37000+ employees globally and facilities in 48 countries the requirement was to ensure the safety of personnel during pressure test operations.

THE CHALLENGE

JBS were given the task of installing a retrofit kit to cover the pressure test bay roof during pressure test operations. The roof system had to open and close using an electric motor driven gear mechanism and allow full access from either side of the test bay with uninterrupted access for the overhead crane. The client specified various ballistic ratings for the project with the largest threat level deemed to be a 6ton steel mass, travelling at 75 mph with an impact diameter of 26 inches. The test bays were a mixture of concrete, dry pit and steel. JBS were also tasked with installing the pressure test roof containment systems at the client's site in South America.

THE SOLUTION

JBS are a partner with the world's leading and best available technology (BAT) for pressure test blast containment systems - BlastTac USA. Having analysed the ballistic rating for the roof protection system JBS recommended using BlastTac CB430NM technology. CB430NM is highly efficient in all types of blast, high speed frag and high pressure applications. It offers true ballistic protection and is UL 752 Level 2 certified. CB430NM is effective against deformable and non-deformable threats, which are actually more common and lethal than bullets.

JBS completed a site survey and then designed the automated pressure test roof containment system for installation, by the JBS installation team, at the client's site.

THE OUTCOME

Many workshop facilities across the globe conduct in-line pressure testing services every day. Pressure test bays traditionally do not have any roof protection. The JBS automated pressure test roof containment system provides an automated system which is easily retrofitted to older test bays. Designed to provide the operator with complete barrier protection from potential equipment failure during pressure testing. Flexibility of design is key such that the roof system mechanism allows full access for equipment loading and overhead crane access.

