

Container house mining camp

Project Overview

Project time: 2015.4 - 2015.12

Project Location: Aktogai, Kazakhstan

project area: 35000 m²

Project usage: Mining camp housing

Located in the eastern mining area of Kazakhstan , in order to solve workers' accommodation problems, Kazakhstan conducted mining camp housing cooperation project with China which realizes maximum capacity of 1000 people with an area of about 35,000 square meters.



PTH was chosen as the turn-key solution provider to enable quick and efficient manufacture of all the container houses. We provide turn-key solution including project design, detail design, prefabrication, construction service.



Professional technical team



Idea



Design



Engineering



Advanced production line



Fabrication



Eco solution



Professional operation team



Constuction



Procurement

Project Design

*All of the container houses are designed one-storey structure, featured in heat preservation and insulation, and the dimension of most units is 2880MM * 9144MM * 2991MM.*

The whole project is consist of 1550 container house in which it forms dormitories of workers and managers, recreation centre, living facilities include dining hall, washhouse, emergency room, supporting facilities include waiting room, prayer room, logistical and security centre. PTH offer innovative solutions to fully functional community in mining area.



Detail Design



Manufacturing Process

Our material meet civil construction standards about insulation and fire-proof under severe cold environment. All the wall panels are rock wool sandwich panel with steel sheet (Baosteel brand) the thickness of interior wall reach to 60mm, exterior wall reach to 75mm, the aisle wall reach to 100mm. Window in interior wall is aluminum single-glazed, in exterior wall is aluminum double-glazed. Base frame is composed of box beam structure and casting parts. Floor panel is waterproof laminate sheathing floor and PVC floor, with glass wool insulation. Roof frame is composed of box beam structure, reinforced steel truss as secondary beam, insulation in roof is PU which is 75mm of thickness resulting in the advantages of excellent thermal insulating effect. In particular, washroom uses stainless steel wall panels to prevent rust or corrosion.





Prefabricate And Assemble Process



Offsite Assemble

Products Delivery

On Site Installation

As all the container houses are assembled offsite to form easy-to-erect panels, the full frame could be delivered to the site and simply bolted together on location with huge time savings on this construction

project. PTH provided a zero-waste solution and a low-carbon alternative to traditional concrete frames.





Achievement





Cai Lin, On-site project manager, who is the professional in charge of installation, comments: "We are proud that we were able to play a leading role and supply a multi-functional community solution in mining area. We smooth the way for copper mining project in Kazakhstan by providing better living conditions for workers and managers."



Dormitory



Laundry Room



Dining Room



Toilet