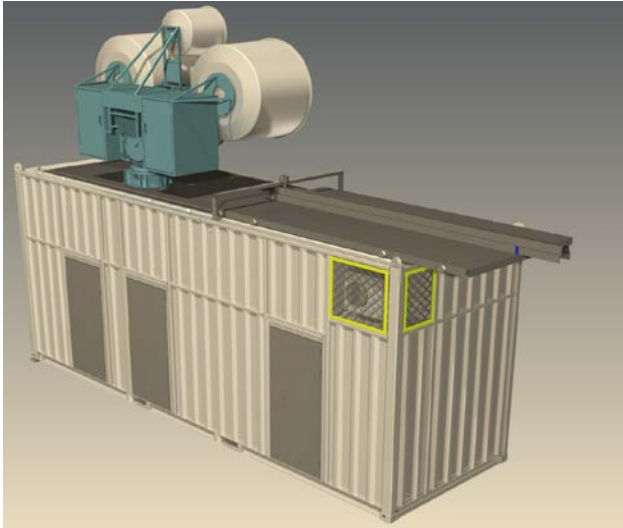


# JOB REPORT



## ANTENNA ENCLOSURE - ISPAS



**Year** : 2012  
**Project Name** : ISPAS Antenna Enclosure  
**ATC project no.** : 2680

**Size (L x W x H mm)** : 8000 x 2438 x 4100 (without antenna)  
**Weight (kg)** : 8100  
**Materials** : 1,5 mm Mild Steel, painted with zinc epoxy.  
**Classification** : Unclassified

### Project Description / Challenges:

A unique challenging project to supply a special designed container to house an antenna installation.

The project specification required the container to include a 2 x 4 metre retractable roof which could be automatically opened when the antenna was to be used.

In addition the antenna had to be mounted on a special lifting table which could also be automatically lifted and lowered from inside the container.

The whole enclosure was insulated with 70 mm non combustible mineral wool, which was then lined with respatex panels.

The floor was constructed in galvanized steel and finished with a 2 mm vinyl covering.

# JOB REPORT



## Scope of Work:

Trans Constructions scope of work included detailed design, layout and construction drawings, structural calculations, production of the containers and antenna housing, together with outfitting and testing of the roof and antenna table.

As part of the design ATC developed a motorized system for both the lifting table and roof hatch.

ATC's scope also included the ventilation system in the form of a split AC unit, as well as lighting and small power electrics.



Retractable roof with non slip surface for maintenance



Lifting mechanism inside the container



Split AC unit mounted on internal respatex panels, MCT in side wall