

Thermal Isolated Telecom Shelter / Cabinet

MAIN FEATURES

1 On-site Assembly
Ship in pieces

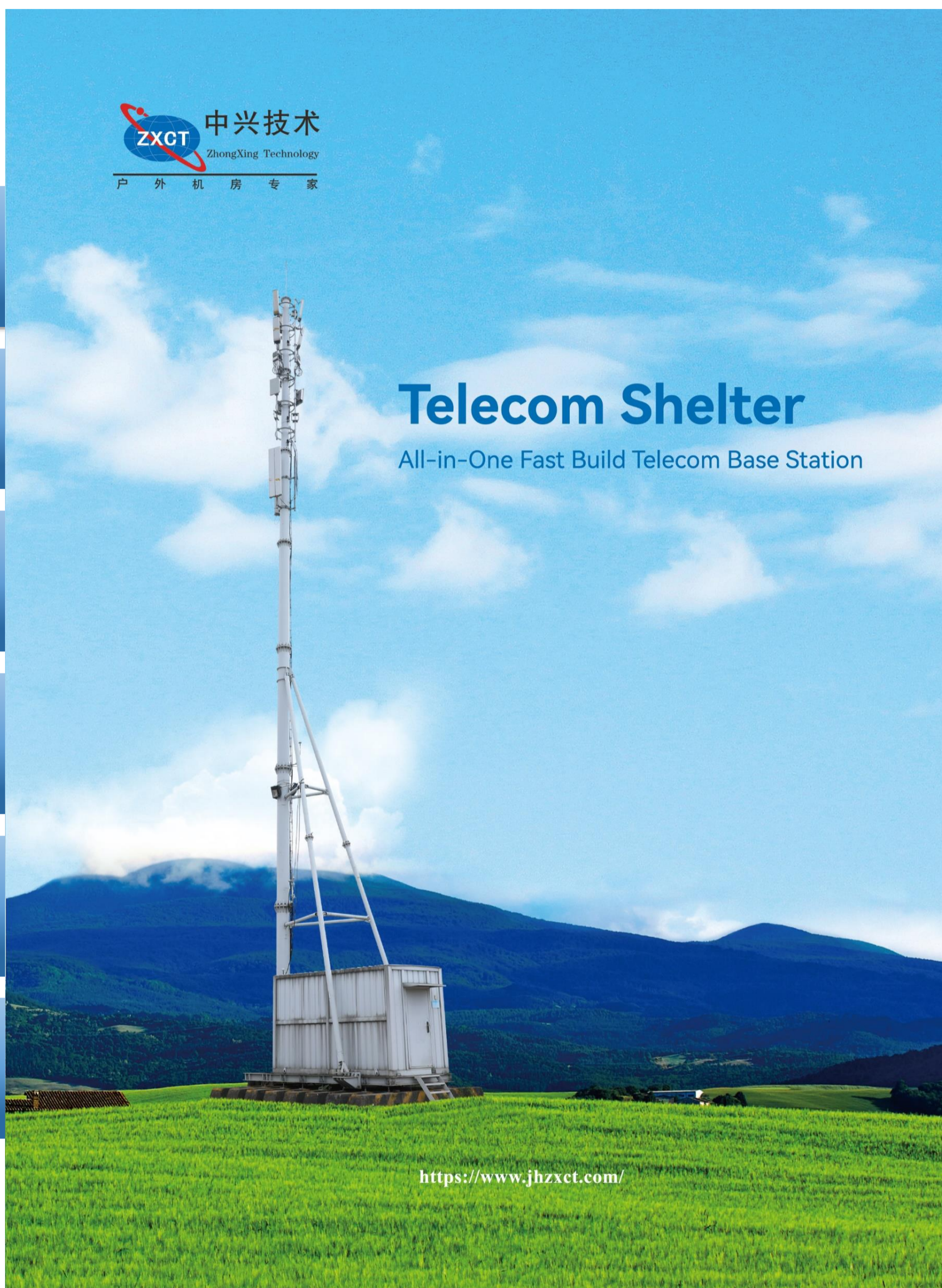
2 Thermal Isolated
Warm / Cold keeping

3 **ROBUST**
Wind & Seismic

4 Long lifecycle
>35years

5 Tower & RRU
All-in-One

6 Appearance
Full customized



1

On-site Assembly Ship in pieces

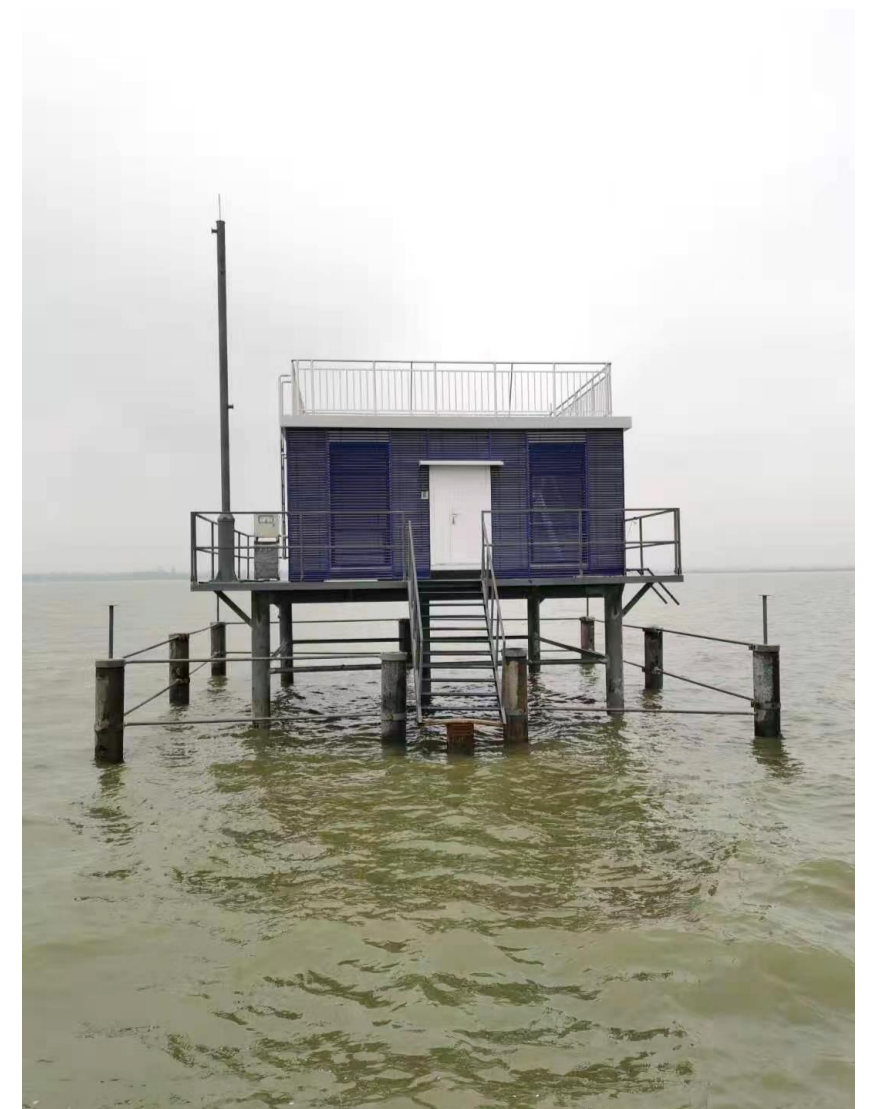


The shelter / cabinets are delivered in pieces (ship loose), made it very flexible, easy to deploy at almost any places, like on top of a mountain or on the beach, over the water, where traditional buildings can't easily reach.

We have many government project high on the mountain or ride on the boundary line. It is also convenient for export trading.

The assembly is also fast & easy, thanks to our patent design panel, the full telecom base station could be ready in 2 days, with 2~3 workers.

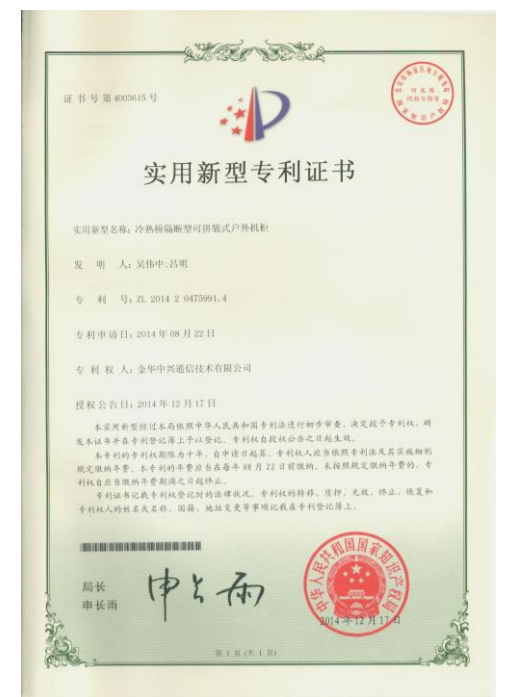
Shelters on the water, where traditional buildings are difficult or very expensive to achieve.



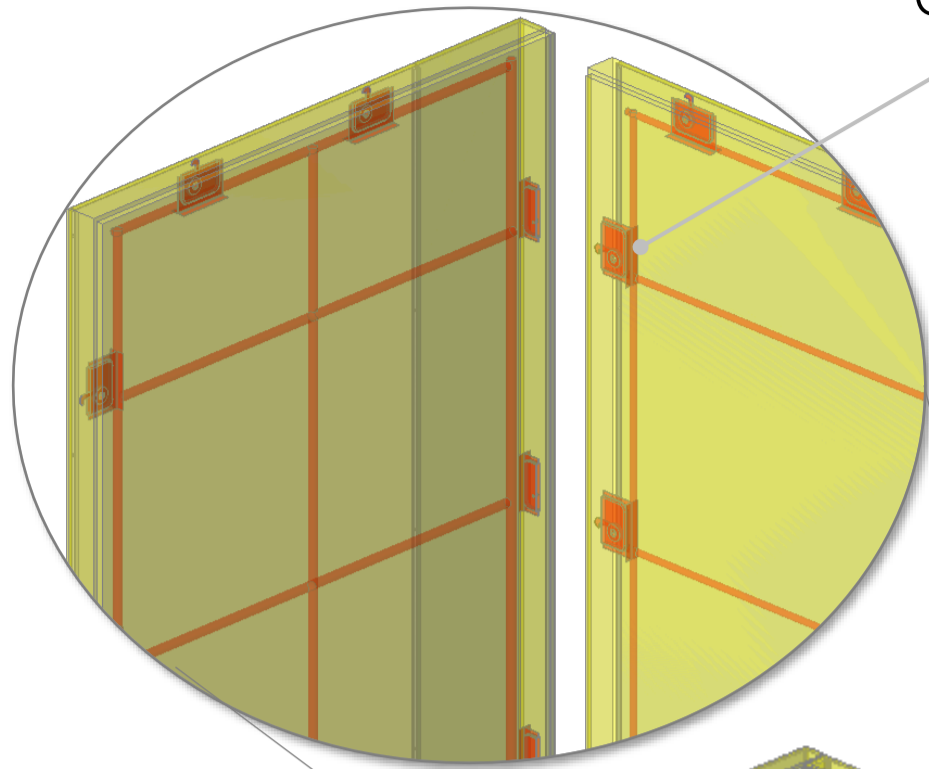
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Thermal Isolated Warm / Cold keeping

Pre-installed eccentric hook



Patent:
Thermal Bridge Isolated Plate



Pre-installed Steel mesh $\Phi=6\text{mm}$

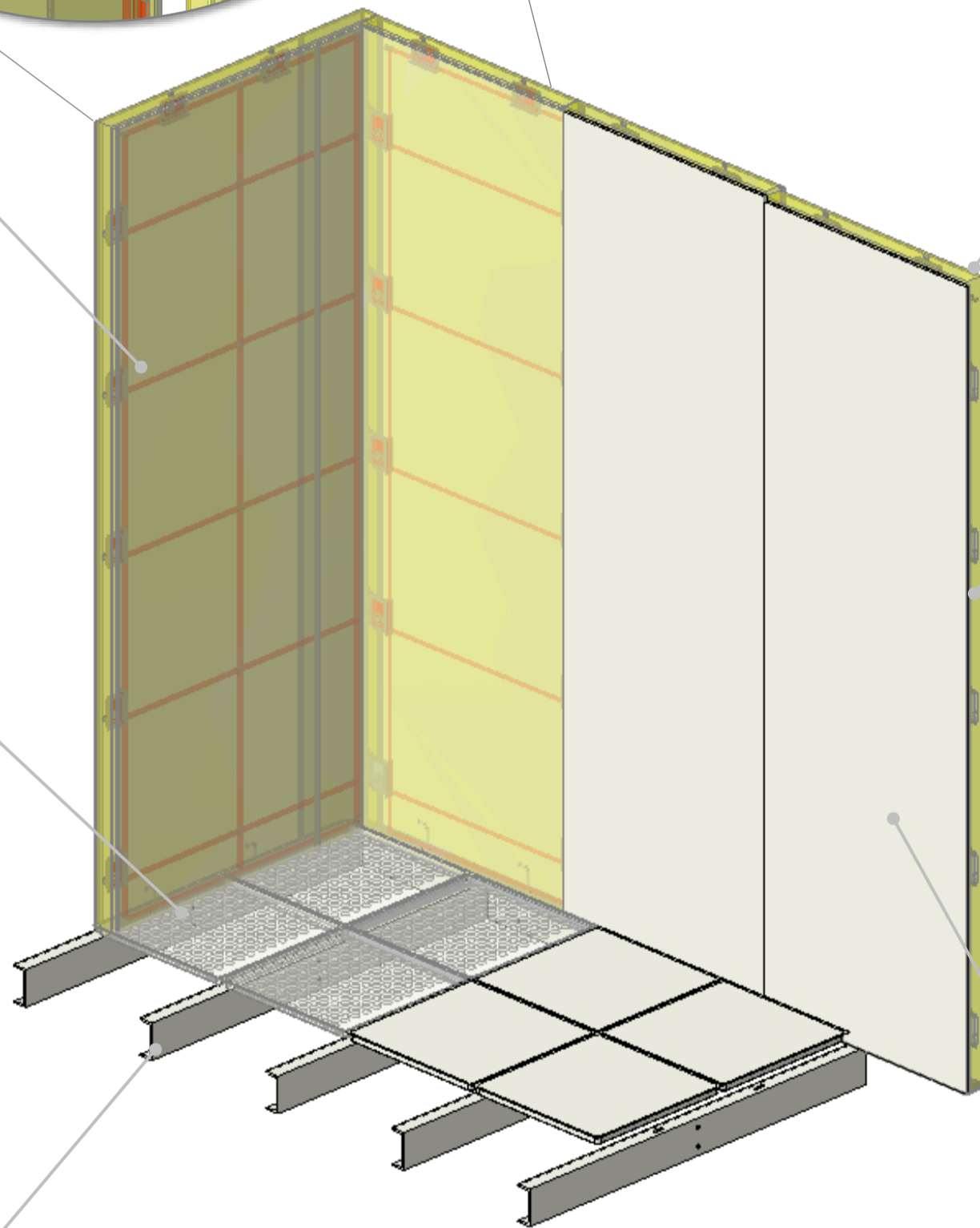
Outer plate $T=1.2\text{mm}$

Polyurethane 40kg/m^3 $T=100\text{mm}$

ESD Floor $T=35\text{mm}$
Bolts secured

Steel frame #14 U-bar

Inner plate $T=0.5\text{mm}$



There is no existing of good thermal conductor between inner/outer wall panel, that's the true "Thermal Bridge Isolated" structure, physically isolate the heat exchange of the shelter from external environment, this product can achieve excellent warm-keeping, cold-keeping effect like never before.

Compared to traditional outdoor cabinet, the one utilized our patent “Thermal Bridge Isolated” structure would achieve excellent Thermal-retaining property, it creates a comfortable indoor environment for people and equipment, ensure the function & operation, while saving huge energy cost from the Air-con.

	Our Product	Traditional Cabinet
Wall plate thermal conductivity	0.024W/m·k	0.04W/m·k
Whole system thermal conductivity	0.78W/m²·k	2.0W/m ² ·k
PUE Power Usage Effectiveness	1.2	1.5~2.0
Thermal balance time	5 hours	<3 hours
Power consumption of the Air-con (per month)	600kWh	750kWh

*The whole thermal conductivity refers to the external heat exchange coefficient of the entire site (not a single board). Our patented “Thermal bridge isolated” board can effectively cut down the heat exchange inside and outside. Test report shows that its warm/cold keeping effect is excellent, far beyond an ordinary container modified with insulation foam. 0.78W/m²·k almost put it to the physical limit, we have full test report.

* The Thermal balance time refers to the Thermal equilibrium time at a sudden power failure when the outside temperature is 40°C and the internal temperature is 20 °C. According to the actual testing data, the thermal isolation performance of our station is approximately twice of that of an ordinary container.

3

ROBUST Wind & Seismic



Product dimension: 2000 x 3000mm, height=2800mm
This is the smaller size, other dimensions available.

Robustness

Wind resistance	60m/s
Seismic	9 grade (Zone 4)
Waterproof	IP68
Lifecycle	35 years
Fire rating	B1

Though assembly on site, yet extremely robust, we have projects on typhoon area for years, the shelter / cabinets never failed, while others' telecom cabinets blown away.



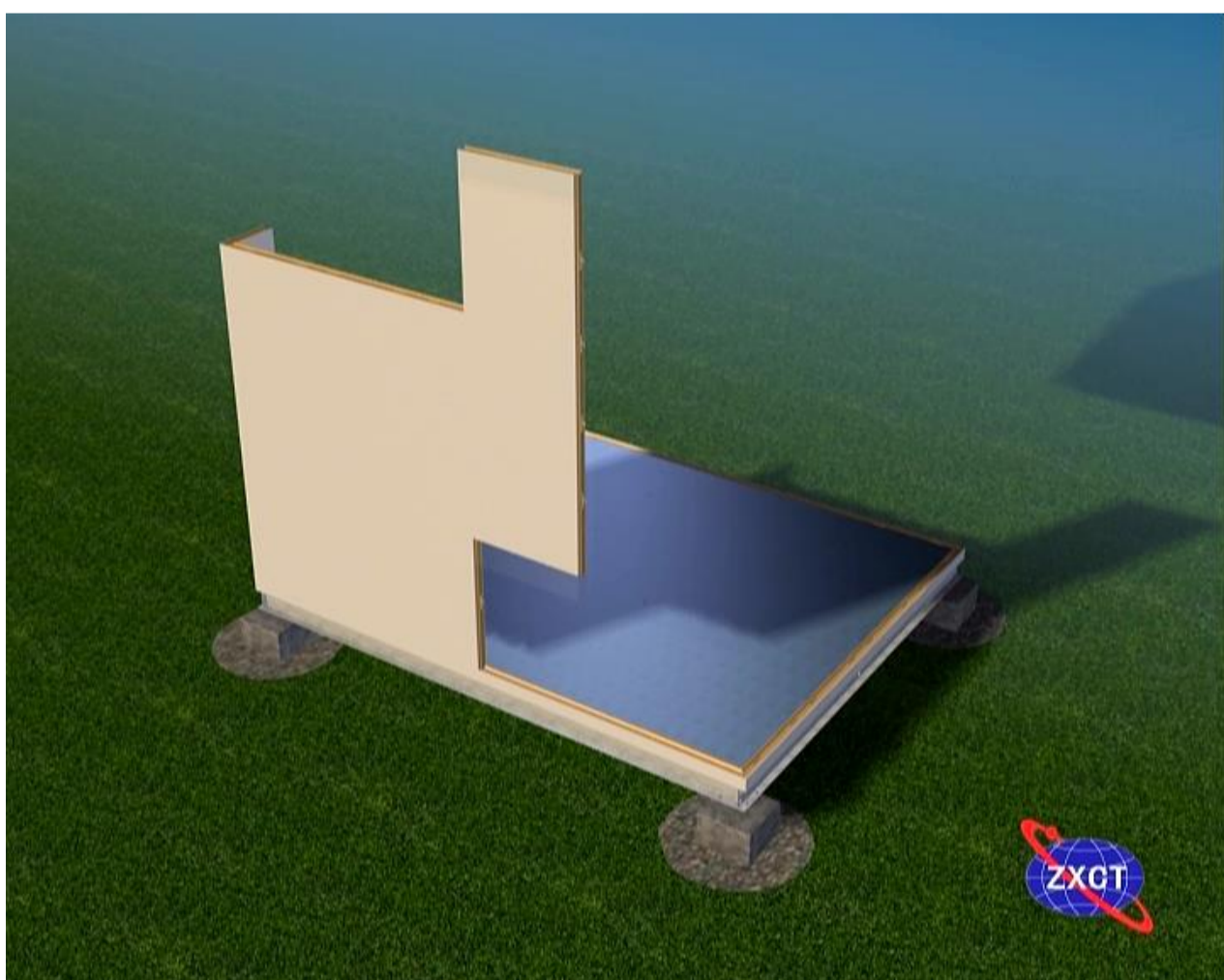
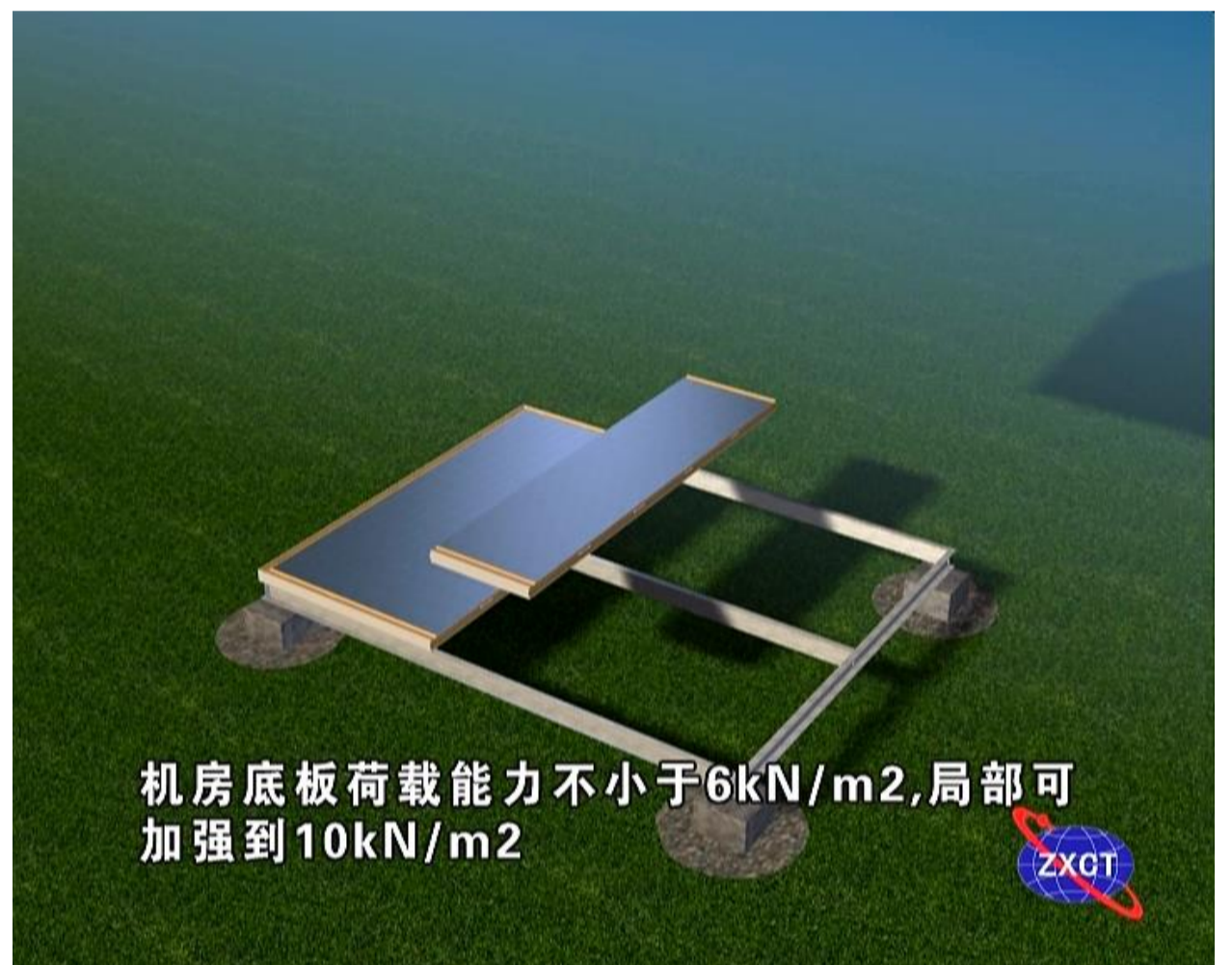
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Long lifecycle
>35years

The product is designed to stand more than 35 years, on real projects, the oldest of our shelters / cabinets already stood for 22years.

The whole cabinet is sitting on a steel frame base, itself also made by frame structure.

All the surface treatment followed outdoor GR-63 standard, including anti-corrosion painting, sealing process, salt-fog resistance, no worries getting rusty even put beside the ocean.



5

Tower & RRU All-in-One

We provide not only the shelter / cabinet, but also the tower integrated, equipped with BBU & RRU if needed.

ZXCT has been China telecom supplier for over 20 years, we have rich experience of making telecom base station. We are happy to provide the full solution.

Our company is certified with “Steel Construction professional contractor Ⅲ”, “Grade 3 of general contracting on Telecom engineering”, “Production license for broadcast TV towers”, etc.



6

Appearance Full customized

The appearance don't have to be a standard Shelter / Cabinet, it can be any shape at any color, we support full customize design, coordinate with the actual environment.

