



青岛鑫光正集团
Qingdao Xinguang zheng Group

青岛市鑫光正钢结构材料有限公司

Qingdao Xinguangzheng Steel Structure Co.,LTD

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节能轻质板材
ENERGY-SAVING BOARD



鑫光正节能板材简介

Company introduction

青岛鑫光正集团成立于2002年，是一家集钢结构材料与工程、集成化房屋研发生产、机械加工制造、外墙保温体系及国际贸易为一体的综合型企业集团，企业设备先进，技术实力雄厚，服务质量优越，产品畅销美国、德国、阿拉伯、澳大利亚、南非等70多个国家和地区，深受客户的认可与信赖。

Qingdao Xinguangzheng Group Co., Ltd., founded in 2002, is a comprehensive enterprise group which specializes in steel structure materials and project, studying and producing integrated houses, mechanical processing and manufacturing, exterior wall thermal insulation system and international trade. Our products are very popular in more than 70 countries and regions and gain the customers' recognition and trust because of the advanced equipments, strong technical strength and excellent service.

雄厚的实力为企业赢得了荣誉，青岛鑫光正集团先后获得“青岛市建筑业专业承包十强企业”、“青岛市创新型企业”、“山东省重合同守信用企业”、“国家高新技术企业”等多项荣誉称号。

With abundant strength, our company has been awarded "Top Ten Enterprises of Qingdao Construction Professional Contractor", "Qingdao Innovative companies", "Shandong Outstanding Enterprise for Abiding by Contracts and Credit", "The national high-tech enterprises" and many other honorary titles.

近年来，鑫光正集团充分响应国家政策，专注于开发和推广的新型节能墙体材料和衍生品，利用国内外先进技术改革墙体材料，成功研发各类内、外墙节能轻质复合夹心条板（FPB）、实心条板（SPB）和空心条板（KPB），并研发成功新型墙体材料生产线。

Qingdao Xinguangzheng Group always focuses on the development and promotion of new energy-saving wall materials and derivatives to respond national policy actively. We improve wall materials through advanced technology at home and abroad and develop kinds of FPB, SPB, KPB and new production line of new style interior & exterior wall materials successfully.

“激情、务实、感恩、跨越”是鑫光正的企业精神，“以客户满意为中心”是鑫光正的经营理念。在“想，壮志凌云；做，脚踏实地”企业实践观的指引下，鑫光正集团正在逐步向着国际化、规模化、科技化企业的方向迈进！

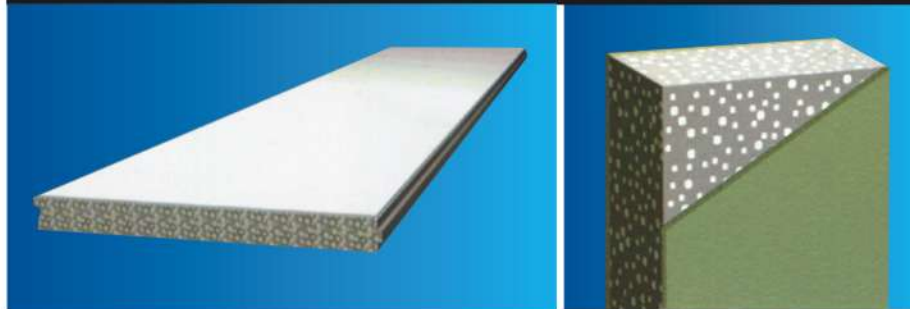
"Passion, practicality, gratitude, transcendence" is our corporate; "customers first" is our business philosophy. Under the guidance of practical theory—"thinking, fearless and ambitious; doing, realistic and practical", Xinguangzheng is gradually stepping towards internationalization, large-scale enterprise and technicalization.



INTRODUCTION 板材系列简介

Going with the trends, the company responses to national policy about reforming of wall materials and absorbs domestic and foreign advanced technologies to meet the need of the saving energy light weight compound sandwich board, which matches the national building number JG/T 169-2005 standard. The light weight compound sandwich board could be applied to steel structure,skyscrapers,apartment,and villa and so on which is the substiution for brick avoiding waste and pollution.As a new type of the light weight compound sandwich board contribute to the environmental protection for a long run.

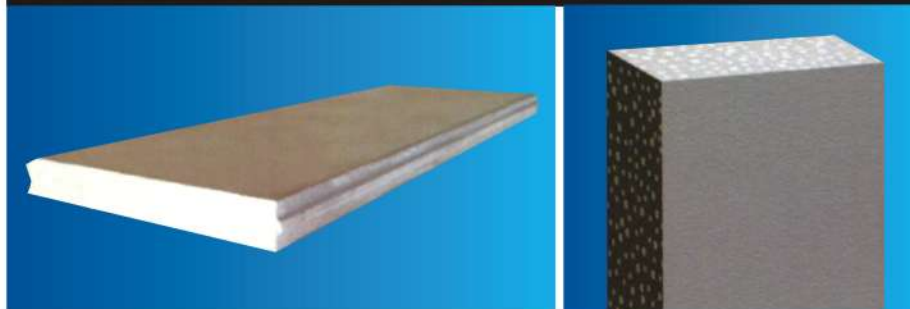
XGZ EPS CEMENT SANDWICH PANEL (FPB) 鑫光正复合夹芯条板



EPS&Cement Sandwich panel is a kind of light weight energy saving wall mate rial taking reinforced calcium silicate board as face panel,With cement,EPS,fly ash as core material and forming by one time compound.

Spec	L	W	T
	1500mm~3000mm	610mm	60/75/90/100/120/150/180mm
Weight	45kg~95kg/m ²		
Usage	Non-load bearing wall panel for the high grade house		
Appearance	With face panel,solid		

XGZ EPS CEMENT SOLID PANEL (SPB) 鑫光正实心条板



EPS&Cement solid panel is a kind of light weight energy saving wall material. which compound cement, EPS and fly ash by one time. Thi s P roduct i s widely applied to all kind of modern building with special features of economic and cost saving.

Spec	L	W	T
	1500mm~3000mm	610mm	60/90/120mm
Weight	40kg~60kg/m ²		
Usage	Non-load bearing wall panel for Ordinary housing		
Appearance	Without face panel,solid		



XGZ EPS CEMENT HOLLOW PANEL (KPB) 鑫光正空心条板



EPS&Cement hollow panel is a kind of light weight energy saving hollow wall material,which compound cement,EPS and fly ash by one time.This product is widely applied to all kind of modern building for interior wall partirion,exterior wall and heat preservation for the floor and roof with special feature of light weight and cost saving.

Spec	L	W	T
	1500mm~3000mm	600mm	90/120mm
Weight	35kg~55kg/m ²		
Usage	Non-load bearing wall panel for Ordinary housing		
Appearance	Without face panel,36% holes		

XGZ SILT FOAMING PANEL (SFP) 鑫光正蛋白泡沫板



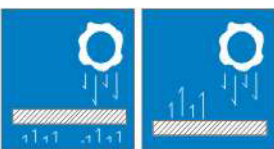
Silt Foaming Panel(SFP)is a kind of new light weight panel, which is compounded one time by protein, cement,fly ash and so on. SFP panel is with feature of economic, practical and light weight.

Spec	L	W	T
	1500mm~3000mm	600mm	60/90/120mm
Weight	40kg~60kg/m ²		
Usage	Non-load bearing wall panel for Ordinary housing		
Appearance	Without face panel,solid		

TECHNICAL INDEX 产品技术指标

序号 S/N	项目 Items	国家标准 National Standards			检测指标 Testing Indexes								
					夹心 FPB			实心 SPB			空心 KPB		
		60mm	90mm	120mm	60mm	90mm	120mm	60mm	90mm	120mm	60mm	90mm	120mm
1	抗冲击性能 / 次 Anti-impact PerOrmanCe	≥5	≥5	≥5	≥8	≥10	≥15	≥6	≥8	≥10	≥5	≥8	≥10
2	抗弯破坏荷载 / 自重倍数 Anti-bending damage load / Times over deadweight	≥1.5	≥1.5	≥1.5	≥3	≥3	≥3	≥2	≥2	≥2	≥2	≥2	≥2
3	抗压强度 / Mpa Anti-pressure strength	≥3.5	≥3.5	≥3.5	≥5	≥5	≥5	≥5	≥5	≥5	≥6	≥6	≥6
4	软化系数 Soften coefficient	≥0.80	≥0.80	≥0.80	≥0.80	≥0.80	≥0.80	≥0.80	≥0.80	≥0.80	≥0.80	≥0.80	≥0.80
5	面密度/kg/m² Surface rate	≤70	≤90	≤110	≤45	≤61	≤78	≤46	≤69	≤92	/	≤53	≤75
6	含水率 a/% Moisture rate	≤12 / 10/8			≤10 / 9 / 7			≤10 / 9 / 7			≤10 / 9 / 7		
7	干燥收缩值/mm/m Drying shrinkage value	≤0.6	≤0.6	≤0.6	≤0.45	≤0.5	≤0.5	≤0.6	≤0.6	≤0.6	≤0.6	≤0.6	≤0.6
8	吊挂力 Single Point hanging strength	≥1000	≥1000	≥1000	≥1200	≥1300	≥1500	≥1200	≥1300	≥1500	≥1000	≥1000	≥1000
9	空气声隔声量/Db Sound insulation capacity in the air	≥30	≥35	≥40	≥35	≥40	≥45	≥35	≥40	≥45	≥30	≥35	≥40
10	耐火极限 /h Fire proof limit/h	≥1	≥1	≥1	≥3	≥4	≥4	≥3	≥4	≥4	≥3	≥4	≥4
11	传热系数B/w/m².k Heat transfer coefficient	/	/	≤1.0	≤1.0	≤0.8	≤0.45	/	≤0.8	≤0.6	/	≤0.8	≤0.6
12	放射性比活度限量 Radioactivity limit	≤1	≤1	≤1	≤1	≤1	≤1	≤1	≤1	≤1	≤0.5	≤0.5	≤0.5
13	IRa(内照射指数) Inner radiation Index	≤1	≤1	≤1	≤1	≤1	≤1	≤1	≤1	≤1	≤0.5	≤0.5	≤0.5
14	Ir(外照射指数) Outer radiation Index	≤1	≤1	≤1	≤1	≤1	≤1	≤1	≤1	≤1	≤0.6	≤0.6	≤0.6

PRODUCT FEATURES 产品特点



HEAT INSULATION AND PRESERVATION

保温、隔热

The energy saving feature of XGZ energy-saving boards chiefly embodies in heat preservation and insulation. Major materials adopt anti-freezing and heat preserving environmental protection materials polystyrene grains with good heat insulation and preservation function, which could adjust the indoor temperature at a constant range, thus achieving the effects of ecological adjustment.



WATER PROOF, FIRE PROOF

防水、防火

The face panel of XGZ energy-saving boards on both side are 4.5mm silicon-calcium fire proof boards and the main material is a mixture of cement, sand, fly ash and so on. Daquan energy saving boards have a fire proof limit of 4 hours against a high temperature of 1000°C and incombustibility standard achieve national level A. Besides, these materials give out no toxic gas and perfectly meet the international environmental protection criterions. The tests also prove that water containers can be made by using Daquan panel with no need for plastering and the containers have no leakage at all.



SOUND INSULATION AND ABSORPTION

隔声、吸音

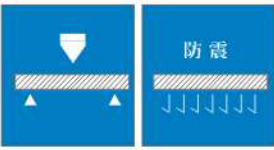
The inside constructional material (EPS polystyrene grain) has good sound insulation and sound absorbing functions.



EASY CONSTRUCTION AND SHORTER TIME

施工方便缩短工期

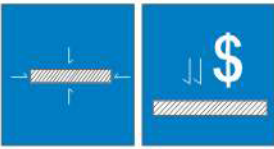
The construction work with traditional blocks taking 12 people 60 minutes to complete will need only 3 people to spend 60 minutes to finish if they use XGZ boards which can save a lot of labor cost for the construction part.



HIGH INTENSITY AND QUAKE PROOF

高强、防震

XGZ energy saving products all with high intensity and the earthquake resistance function can reach to 8.5 magnitudes. And shock resistance function is dozens times higher than other wall material. They can be nailed directly or have expansion bolt to lift and hang heavy things, they also can be covered by ceramic tile, wall paper, wood panel, coating etc.



SPACE AND COST SAVING

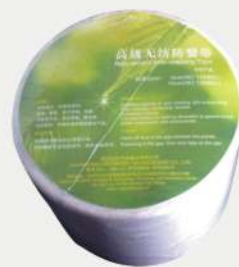
节省空间降低成本

The thickness of XGZ energy saving products are between 60mm to 180mm. They can increase the building spaces compared to the traditional blocks. The weight is only 1/12 of traditional wall body, and save the cost on construction structure.

SUPPORTING INSTALLATION MATERIALS 墙板安装配套材料

ANTI-CRACK TAPE

高级弹性防裂带



Features: excellent capacity of anti-commanding, anti-cracking, thin, soft, easy connecting, durable. Environmentally friendly product. It is the best stitching and decorative product for the gypsum board, plywood panel and other wall panel.

Usage: Clean off dust in the gap between two panels. Plastering in the gap, then using 801 mortar or white mortar to stick the anti-crack tape on the gap.

Spec: 5cm(W) x 100m(L)
10cm(W) x 100m(L)

DQ-1 ANTI-CRACK MORTAR

抗裂砂浆



The XGZ-1 Anti-crack Mortar is mainly made from the normal 42.5 Portland cement, mixed with anti-crack materials and some additives by the pre-dry mixing techniques, the finishes appear as powder. It can be used as the level coat for exterior wall. It is better to use the mortar together with the alkaline-resistant fiber glass cloth to prevent the wall cracking. With the character of the anti-crack, the mortar has become a necessary part for insulation wall which can improve the quality of the building and keep the wall from cracking.

EFIBER MESH CLOTH

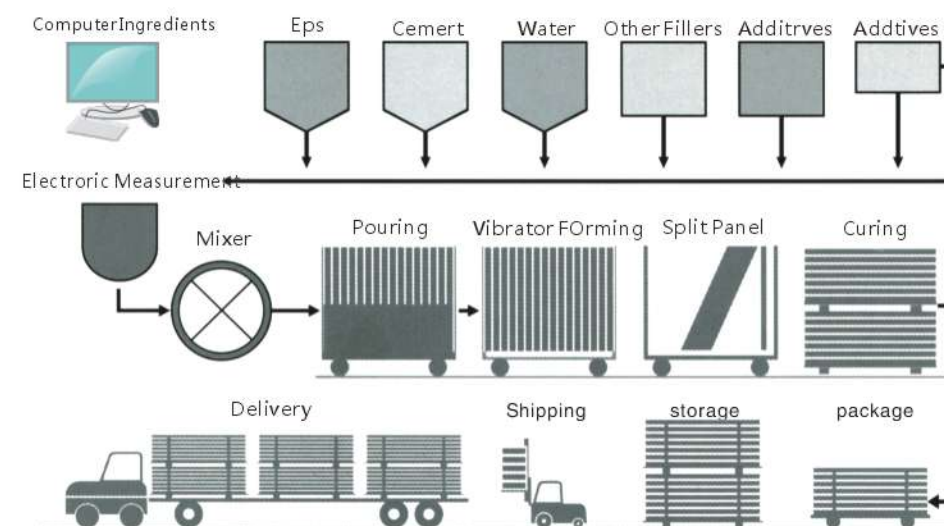
网格布



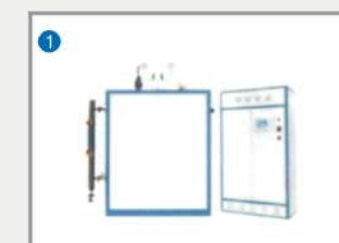
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XGZ HORIZONTAL HOLLOW(SOLID) PANEL MOULD

鑫光正轻质条板生产线



- 1 锅炉设备
Boiler
- 2 发泡设备
Expander
- 3 搅拌设备
Mixer



XGZ EPS & Cement Panel Production Line					
	NAME		TYPE	QUANTITY	REMARK
1	Mixer Equipment	Mixer	JDC500	1set	mixing various raw material, choosing different types of mixer according to production requirement
			Js500		
			Js750		
		Matching Accessories	JS1000	Severa	matching used with mixer
2	MouldCar		sandwich panel mould car solid panel mould car hollow panel mould car	15set	using different types of mould according to the specification of panels
3	Expander Equipment	Expander	PE / C900	1set	expanding EPS particles
Matching Accessories		--	Several	matching used with EPS expander	
4	Expander tank		40m³	2-4unit	store EPS particles
5	Boiler equipment	Boiler	electric heating steam-type	1set	expander EPS heated
			flue(gas)type		
		Matching Accessories	coal-burning type		
6	Windass		mobile machinery	1-2set	mobile traction—type mould
7	Handcart		pulling tube	1set	pulling core tubes
8	Forklift		--	1set	transport of raw materials
9	Transition Car		--	1-2set	Loading panel, transport of raw materials with a vibrator, mobile machinery
10	Water Pump		--	2set	---
11	PaPer Fan		--	1set	mixer with water
12	Air Compressor		--	4set	mixer with EPS
13	CuttingMachine		---	1set	spray release agent
14	Saw Bed		cutting iron product	1set	cutting iron product
15	Electric Welder		cutting aluminum alloy product	1set	cutting aluminum alloy product
16	Working Table		--	1set	installation of machinery
17	Opening Device		--	2set	installation of machinery
18	Boom		--	1unit	pour table
19	Splint Device		--	1set	die setting(horizontal mould)
20	Track		--	1set	take apart die(horizontal mould)
21	Other Electrical Accessories		--	1set	take apart die(horizontal mould) different modes
			--	Severa	move mould car, calculated based on plant design
			--	Severa	calculated based on plant design

XGZ INSTALLATION PROCESS 鑫光正节能板材安装流程



放线，运板就位，在安装轻质隔墙板的轴线分别上下弹出板厚双线。

Put on the line, transport plate in place, in the axis of lightweight partition board are respectively arranged on two pop-up plate thickness.

1

根据轻质隔墙板的规格任意用手提电锯切割。

With a chainsaw cutting according to the specifications for any light partition board.



2



在基础放置水泥砂浆，将需要安装的墙板放置其基础上。

Place the cement mortar in the foundation, will need to install the panels placed on the basis of.

3

上浆，在两块板的榫边水泥一道将聚合物砂浆抹在一边榫边上。

Sizing, in the two plates tongue edge of a polymer cement mortar in the side tenon edge.



4



安装，将准备安装的条板搬到装拼位置，用铁撬将墙板校正，用力撬紧，使聚合物砂浆从接缝挤出之饱满。

Installation, the slats ready to install to the assembling position, with a crowbar to pry force wall correction, tight, the polymer mortar from extruded full seam.

5

调节，用木契打入墙板底部，使其调整垂直平整。

Regulation, with the wood agrees to the bottom of the wallboard, adjust its vertical flat.



6



校正，固定，用2米或2米以上靠尺检查垂直，平整校正。

Correction, fixation, with 2 or 2 meters above the inspection on foot vertical, flat correction.

7



灌浆，补浆，将校正后的墙体墙壁用聚合物砂浆补满，刮平，上下间隙大小用聚合物砂浆填补。

Grouting, grouting, the corrected wall wall with polymer mortar filled, scraping, up and down gap size with polymer mortar to fill the gap size.

8



固定，墙板上部用Φ6mm或Φ8mm的钢筋以墙板中部以45度打入，底部用“7”字型螺纹钢一头打入混凝土基础内，一头打入墙板。

Fixed, wall with the upper part of Φ6mm Φ8mm bar or to the middle to 45 degrees into the wall at the bottom, with "7" type screw steel head into the concrete foundation, a head into the wall

9



饰面瓷砖，装饰板。

Facing ceramic tile, decorative sheet. Sticking ceramic tiles or other wood facing panels casually without plastering on installed wall.

10



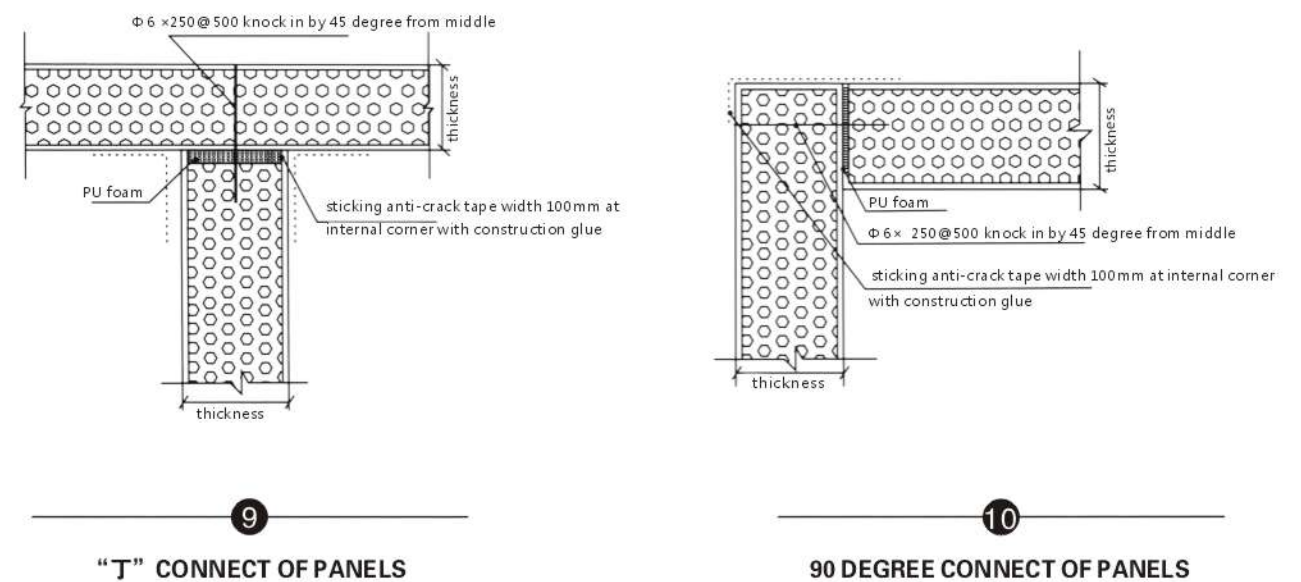
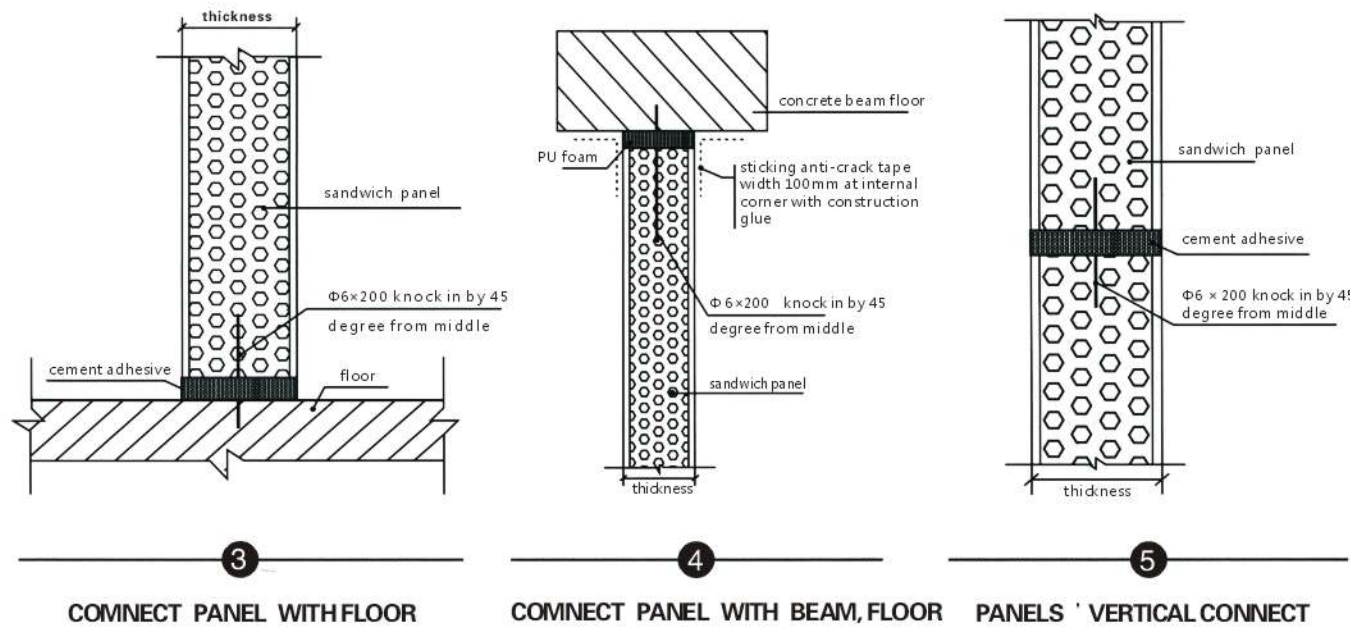
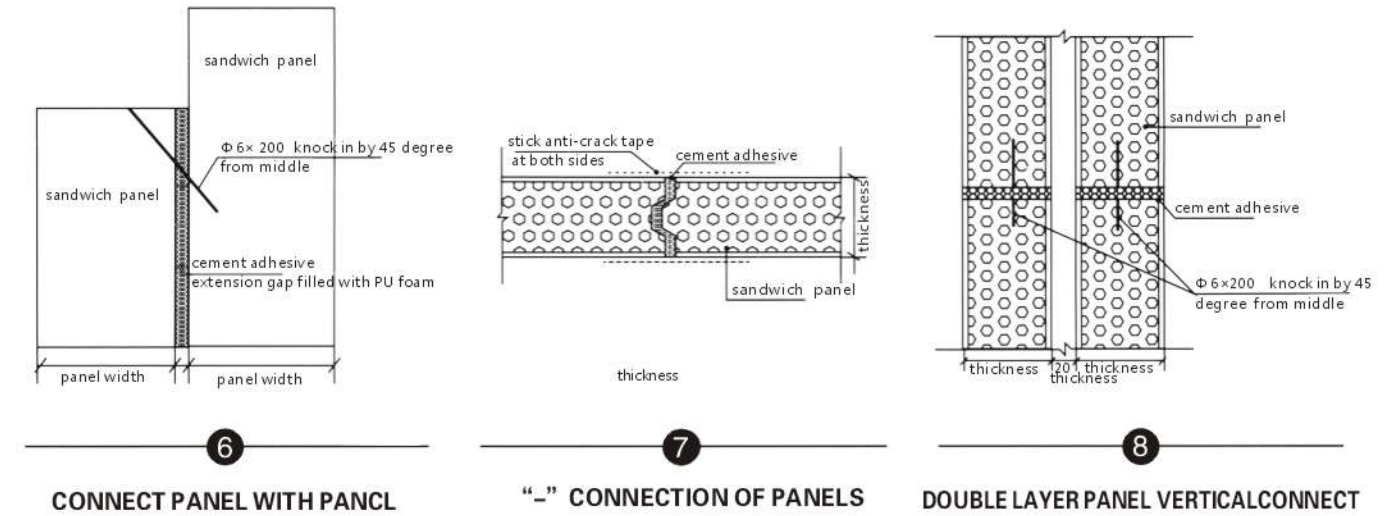
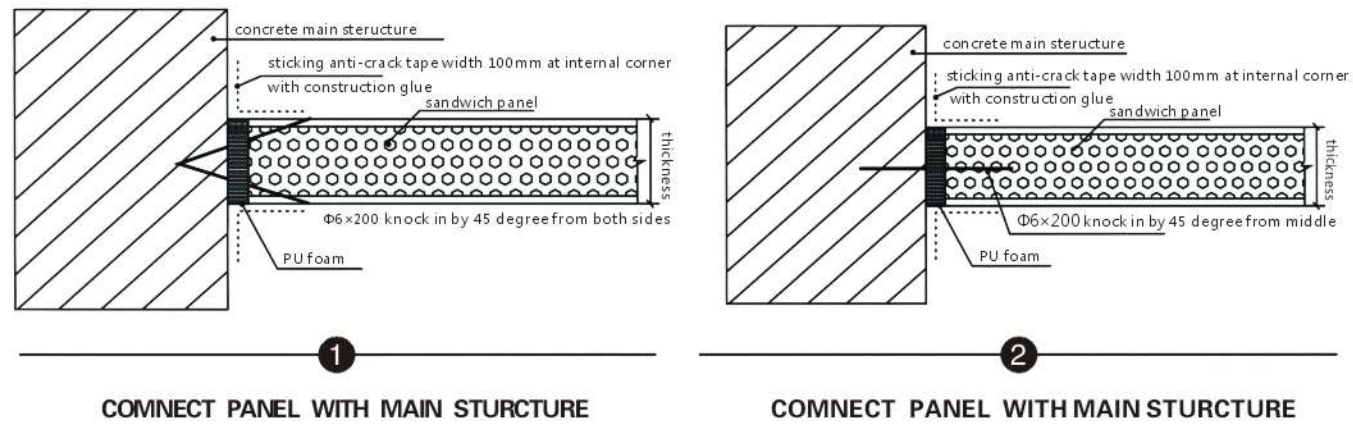
电器安装

Electric apparatus installation. Install lights, furniture, air-conditioners casually on installed room, nailed or hanged.

11

XGZ INSTALLATION NODE DIAGRAM

鑫光正节能板材安装节点图



For details please reference: 《XINGUANGZHEN Light Weight Panel Installed on Frame Structure》

ENGINEERING CASE 工程案例

Durban, South Africa project
南非德班项目



farm project
农场项目



Iran Project
伊朗工程



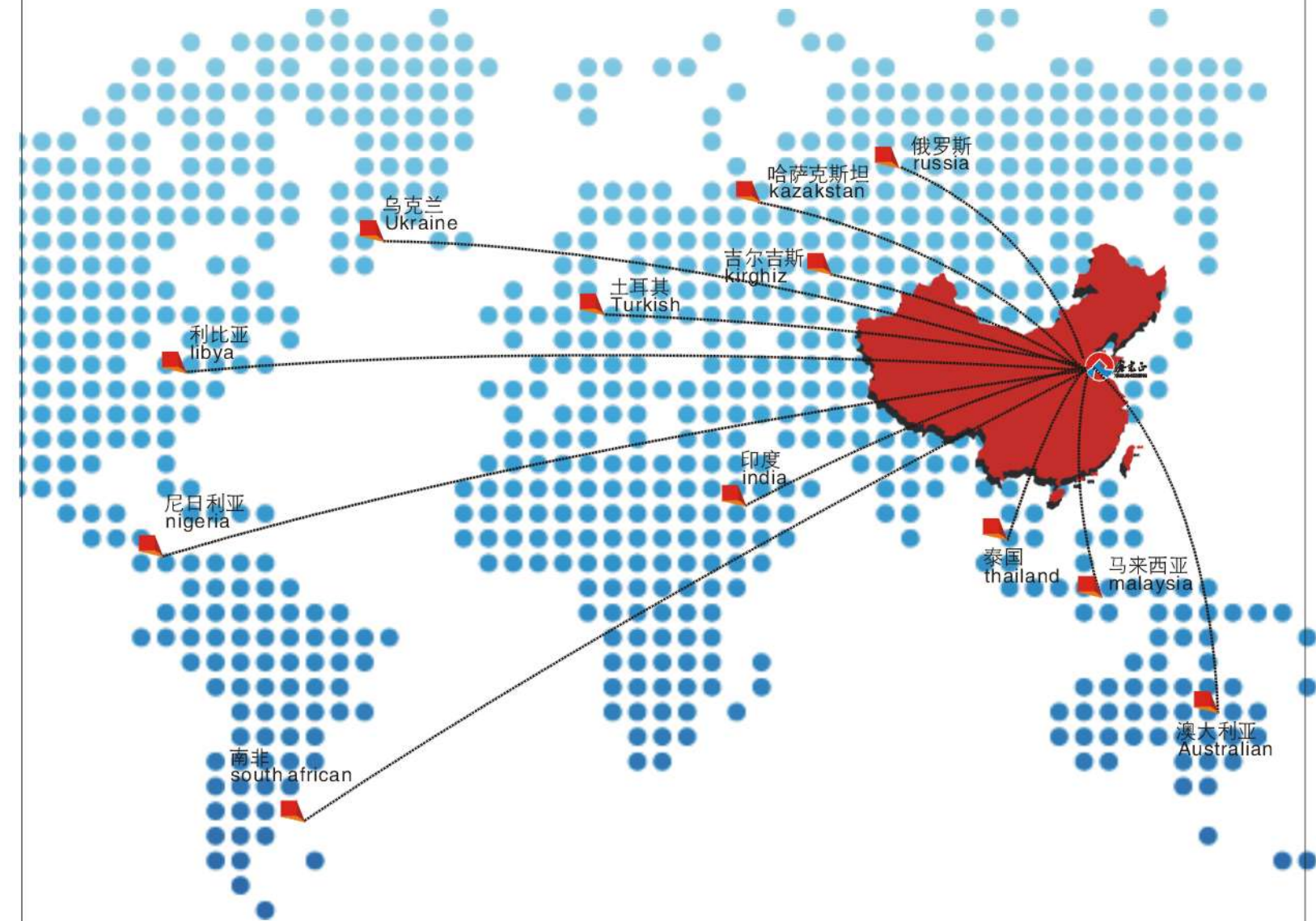
Iraq Project
伊拉克项目



South Africa Project
南非项目



Bahrain Project
巴林项目





合作共赢
 Win-Win Cooperation

Hisense 海信
 创新就是生活

Haier
 海尔


山东黄金
 SD-GOLD


万科


中国石油


青島啤酒