



东方诚建设集团有限公司

地址:北京朝阳区华腾新天地

OHC Construction Group Co., Ltd.

ADD: Huateng Xintian Building, Chaoyang District, Beijing

北京东方诚鼎板材有限公司

地址:北京大兴区采育开发区

Beijing OHC Ding Steel Plate Co., Ltd.

ADD: Caiyu Economic & Development Zone, Daxing District, Beijing

河北东方诚鼎力金属幕墙有限公司

地址:河北省唐山市芦台经济开发区

Hebei OHC Dingli Metal Curtain Wall Co., Ltd.

ADD: Lutai Economic & Development Zone, Tangshan City, Hebei Province

网址:www.ohcs.com.cn www.ohccn.com 电话:010-80278585



OHC[®] 建筑外围护体系产品手册

OHC[®] BUILDING ENVELOPE SYSTEM PRODUCT MANUAL

北京东方诚鼎板材有限公司

Beijing OHC Ding Steel Plate Co.,Ltd.

北京东方诚鼎板材有限公司是东方诚建设集团有限公司的全资子公司,依托东方诚集团三十多年来雄厚的技术力量及品牌和规模优势,引进三条世界先进性的金属复合板全套连续自动化生产线,年均产能300万平方米。其主要产品有:建筑幕墙复合板、金属防火复合板、金属节能复合板、金属屋面复合板,芯材采用专用防火岩棉、玻璃棉、阻燃型聚氨酯,产品具有防火、防水、隔热、环保、低碳节能、美观、安装便捷等性能优势,广泛用于工业厂房、公共建筑、商业建筑及民用建筑。

东方诚鼎板材以诚信为立企之本,敬业奉献,锐意创新,铸造金牌品质,缔造金品工程,助力行业进步。

Beijing OHC Ding Steel Plate Co.,Ltd. is a wholly-owned subsidiary of OHC Construction Group Co., Ltd. (OHC Group) Relying on the technical strength, brand and scale advantages of OHC Group for more than 30 years, it has introduced three full sets of world-leading continuous automatic production lines for metal sandwich panel with an average annual production capacity of 3 million square meters. It mainly manufactures building curtain wall sandwich panels, metal sandwich roof panels, and the core materials are rock wool, glass wool, polyurethane. OHC products are fireproof, waterproof, thermal insulated, environmental-friendly, low carbon, energy saving, beautiful, easy-installed, thus they are widely used in industrial plants, public buildings, commercial and civil buildings.

Based on honesty, diligence and innovation, OHC Ding has accomplished good-quality projects, promoting industrial development.



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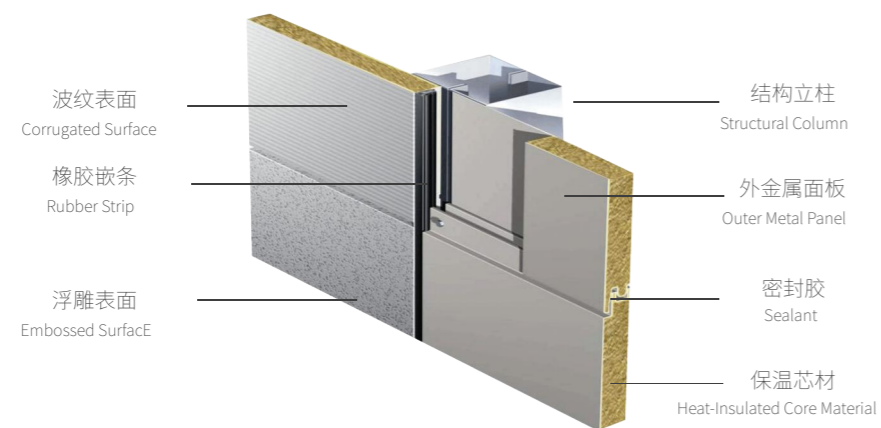
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产品体系 OUR PRODUCTS



建筑幕墙复合板系列 (MRP®-W)

Building Curtain Wall Sandwich Panels (MRP®-W)

据统计,我国工业建筑外围护系统多选用普通彩钢板作面板,聚氯乙烯发泡材料、聚氨酯发泡材料、玻璃棉卷毡作芯材,采用树脂类胶水粘接或直接复合墙面板。整体平整度、防火性能、抗老化性能及环保性能较差,不能满足现代化工业建筑需求及国家相关节能环保政策的要求。

东方诚引进国际一流技术及设备,结合中国的地理、气候、环境等特点,开发生产适应我国建筑的幕墙复合板(克沃板),满足建筑物对外围护系统日益提高的需求。引领建筑外围护系统由普通彩钢板向建筑幕墙复合板发展的新革命。

For most of industrial building envelope in China, ordinary color steel plates are for surface, while PVC foaming materials, polyurethane foaming materials and glass wool roll felts are core materials, and they are glued by resin glue or compound to wall directly. But these panels are not flat, fire resistant, anti-aging or environment-friendly enough, which cannot meet requirements of modern industrial buildings and relevant national policies concerning environment protection and energy conservation.

OHC has introduced world-leading technology and equipment, developing curtain wall sandwich panels (MRP®) suitable for buildings in China according to Chinese geography, climate and environment. To meet the increasing demand of building envelope, OHC is taking the lead of developing ordinary color steel plates into curtain wall sandwich panels.



防火 低碳 节能 美观

产品说明 Product Instructions

高端面材

High-End Surface Panels

氟碳 (PVDF) 涂层彩板

具有优异的抗紫外线、抗粉化性能,防止彩板褪色,使涂层表面颜色、光泽更稳定,建筑物保持持久亮丽。

洁面涂层彩板

极佳的抗灰尘粘附性能,防止灰尘颗粒粘附在彩板表面。红外线反射性能降低建筑物表面温度,降低能耗,提高彩涂层的稳定性。

印花涂层彩板

花纹逼真装饰效果,无论木纹还是石纹,均取样于真实材料,有逼真的装饰效果又有金属的强度。

浮雕压花彩板

具有新创意的彩色涂层,有金属的机械性能又有其装饰石材质感,极具仿真。

钢卷采用

宝钢、博思格、韩国钢铁等大型钢厂彩涂钢卷和不锈钢产品、彩色铝镁锰钢卷。

Polyvinylidene Fluoride (PVDF) Coated Color Steel Plate

Advantages: It is uvioresistant, chalking resistant, anti-fading, keeping building panel surface bright and nice.

Clean Coating Color Plate

It is anti-dust to prevent dust particles from sticking to the surface of the color plate.

Its infrared reflection properties can reduce the temperature of building surface, save the energy and keep coating steady.

Printed Coated Color Steel Plate

Vivid decorative effects of patterns,including wooden or stone patterns, are sampled from real materials with realistic decorative effects and metal strength.

Embossed Color Plate

The new creative color coating has both mechanical properties of metal and decorative stone texture, with simulation effect.

Steel Coil Suppliers: Baosteel, BlueScope,Dongkuk Steel etc, stainless steel and Al-Mg-Mn steel coil for panels

定制专用芯材

Customized Core Materials

建筑幕墙岩棉隔热产品是由优质天然玄武岩、白云石等为主要原材料,经高温熔化、纤维化而制成的无机质纤维。

产品熔点约1000-1450°C,具有不可燃性,拥有优良的耐火性能。

The heat-insulated rock wool as sandwich panel material of building curtain wall panel, made from good-quality natural basalt, dolomite, etc. After high-temperature melt, fibrillated, then process as inorganic fibers. The melting point is 1000-1450°C, so it is incombustible and fire-resistant.



关于岩棉的神话——从火山到岩棉

Origin of Rock Wool----From Volcano to Rock Wool

岩棉的生产想法源于夏威夷。火山喷发之后,夏威夷岛上的居民在地上发现了一缕一缕熔化后的岩石。人们认为这是他们的火山女神的头发,质地柔软、细长温和。如今,人们对于岩棉的纤维结构了解更加深入,不断努力模仿夏威夷火山岩石天然制造流程进行加工生产,使岩棉得天独厚的特性成为工业建材的理想之选。

Rock wool production idea originated from Hawaii. After volcanic eruption, Hawaii island residents found molten rock on the ground. It looked like hair of their volcano goddess,soft, slender, mild. Now people know more about rock wool fiber structure and try their best to manufacture rock wool by imitating Hawaii volcanic rocks processing, making rock wool an ideal material for buildings.

岩棉的特性

生态自然:热传递方式有三种--传导、对流、辐射。传统的聚苯、聚氨酯等发泡材料是以阻隔、封闭的方式保温,无通透性。岩棉是通过纤维丝之间的密度间隙来改良热对流状况达到保温效果,和棉花、蚕丝、木材的保温原理一样,可以满足使用者的各种生物舒适要求。

防火性能:岩棉产品由岩石制造而成,其熔点超过1000°C,因此具有防火性。隔热材料既不会引燃也不会助燃大火更不会产生有毒气体。

憎水性能:岩棉产品具有憎水性,憎水率为≥98%,短期吸水(24小时内)<0.5-1.0kg/m3,长期浸水风干后产品仍然不会变形,具有完全抗朽性,绝不会腐烂、生霉、变软和滋生细菌。

无毒无害:科学验证岩棉纤维光滑柔软,可吸收、分解,不会助长真菌、霉菌和细菌的滋生,即使吸入人体亦可排出,在建筑物内使用对身体无害。

环保:废弃岩棉可以直接掩埋,整体可降解,不含有害化学物质,对环境无污染。

Advantages of Rock Wool

Ecological and Natural: There are three ways for heat transfer-conduction, convection, and radiation. Traditional foaming materials like EPS, PU are heat-insulated but no permeability. Rock wool improves convection through fibre space to realize heat-insulation. This method looks like cotton, silk and wood thermal insulation principles, which meets the users' various requirements.

Fire-Resistance: Rock wool products are made from rock, and their melting point exceeds °C, so they are fire-resistant. It neither ignite nor support fires, and no toxic gases.

Hydrophobicity: Rock wool products have a hydrophobicity of ≥98%, short-term hydrophobicity (within 24 hours) <0.5-1.0kg/m3, no deform after long-term water immersion and air-drying, it' s anti-corrosive, never soften or breed bacteria.

Non-Toxic and Harmless: Rock wool fibers are smooth and soft, they can be absorbed and decomposed, no molds or bacteria. It' s safe for people health.

Environmental-Friendly: Abandoned rock wool are directly buried, degradable, no harmful chemicals, no pollution.

条状岩棉芯材的技术参数表

Technical Parameters for Strip Rock Wool Core Material

岩棉密度	105	120	150	单位	测试标准
抗压强度	85	105	150	kPa	EN 826
剪切强度	60	80	100	kPa	EN 12090
抗拉强度	170	220	350	kPa	EN 1607
渣球含量	≤5 (粗渣球尺寸>0.25mm) ≤30 (细渣球尺寸>63μm)			%	ASTM C 1335
岩棉板的导热系数 (平均温度20℃)	≤0.036	≤0.036	≤0.038	W/mK	GB/T 10295 ASTM C 518
芯材板条的导热系数 (平均温度20℃)	0.043	0.043	0.046	W/mK	EN 12667
防火性能	不燃性材料			—	EN ISO 1182 GB/T 5464-1999
	对火反应A1级			—	EN 13501-1 GB 8624-2006
耐火极限	根据夹芯板的构造和厚度不同, FRL 30到240分钟不等				
吸湿率	<1			%by weight	ASTM C1104 GB/T 5480.7
憎水率	≥98			%	GB 10299
老化膨胀率	≤5			%	prEN 14509
熔化温度	>1000			℃	—
不稳定性温度	>700			℃	—

离心玻璃棉主要物理性能指标

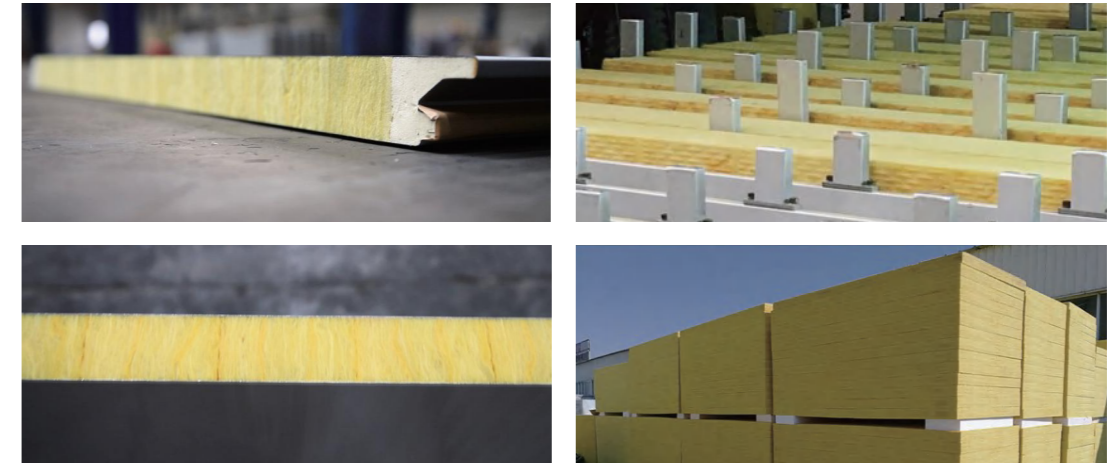
Main Physical Properties of Glass Wool

项目 Items	单位 Unit	指标 Index	标准 Standard
密度 Density	Kg/m ³	10-100	GB/T 5480.3-1985
纤维平均直径 Average Fiber Diameter	μm	5.5	GB/T 5480.4 -1985
含水率 Moisture Content	%	≤1	GB/T3007 - 1982
燃烧性能级别 Combustion Performance		不燃 A 级 Non-Combustible Class A	GB 8624 - 1997
热荷重收缩温 Reshrinking Temperature	°C	≥250	GB/T 11835-1988
导热系数 Thermal Conductivity	w/m.k	0.038 -0.06	GB/T 10294 - 1988
憎水率 Hydrophobicity	%	≥98.2	GB/T 10299 - 1988
吸湿性 Moisture Absorption	%	≥5	GB/T 16401 - 1986
吸声系数 Absorption Coefficient		1.03 产品混声定法 24kg/m ³ 2000HZ 1.03 Product Sound Mixing Method 24 kg / m ³ 2000HZ	GBJ47 - 83
渣球含量 Slag Ball Content	%	≤0.3	

注:玻璃棉容重64kg/m³ Note: Glass wool density is 64kg/m³

玻璃棉的特性

Advantages of Glass Wool



保温隔热 吸音降噪

玻璃棉纤维细长,能很好地禁锢空气,使之无法流动,杜绝了空气的对流传热,因而具有卓越的保温隔热,吸音降噪效果。

优异持久的抗潮性

玻璃棉产品达到不低于98%的憎水率,使其具有更持续稳定的保温性能。

防火性能佳

依据标准测试,玻璃棉产品为不燃A级。

无毒害

玻璃棉不含石棉,不生霉菌,无微生物生长基础。

热稳定性好

玻璃棉具有良好的高温热稳定性、耐久性及其抵抗高温收缩能力;在正常工作状态下,能长期保持安全稳定和高效能。

Thermal Insulated, Sound Absorption and Noise Reduction

Glass wool fiber is slender to restrain air, so it's very thermal insulated, with sound absorption and noise reduction effect.

Durable Moisture Resistance

Glass wool hydrophobicity is more than 98%, so it is long-term thermal insulated.

Fire-Resistant

According to standard test, glass wool products reach non-combustible Class A.

Non-Toxic

No asbestos in glass wool, no mold, no microbial growth basis.

Good Thermal Stability

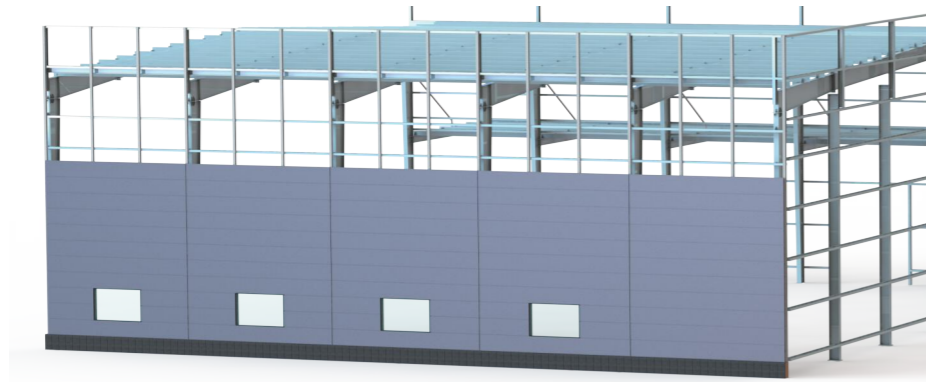
Glass wool is stable, durable, resist to high temperature; under normal working conditions, it is also safe, stable and efficient.

克沃板®建筑幕墙复合板系列--新型可拆卸幕墙复合板 (new-MRP®-W)

MRP® Building Wall Sandwich Panel New-Removable Curtain Wall Sandwich Panel (new-MRP®-W)

结合我国装配式建筑等行业的发展趋势,自主开发了具有全新生产工艺,优于现有技术的一种适用于中高端建筑外墙的高端金属彩铝、不锈钢幕墙复合板。其外观漂亮,整洁;等同于铝单板装饰效果,同时具有优异的保温隔热性能;它表面平整刚度好,使用寿命达50年以上,日常维护简单,是一款集装饰和保温于一体的新型复合幕墙板;将适用于公共建筑、高端工业厂房外装使用。

With the development of prefabricated buildings, OHC has developed high-end metal color aluminum and stainless steel curtain wall sandwich panel. It is beautiful and tidy, decorative, thermal-insulated, flat, rigid, and it is easy for maintenance, suitable for envelope system of public buildings, high-end industrial plants, etc.



产品参数

外板:高品质彩涂钢卷(07、08) 不锈钢(0.5、0.6), 铝镁锰合金钢卷(0.9-1.2);推荐Pvdf涂层

内板:普通彩卷0.4mm以上

芯材:高强度岩棉, 140K

粘接胶:双组份聚氨酯胶

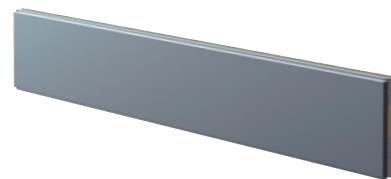
Product Parameters

Outer Skin Panel: high-quality Al-Mg alloy, stainless steel color coil, over 0.8mm thick; PVDF coating is recommended.

Inner Skin Panel: ordinary color steel coils, over 0.4mm thick;

Core Material: rock wool, density: 140KG/M3.

Glue: Two-Component Polyurethane Adhesive



长度 (Length) ≤4500mm

OHC-NEW-MRP 幕墙复合板优点:

Advantages of OHC-NEW-MRP Curtain Wall Sandwich Panel:

- 1、表面平整度高:在工厂将保温材料及内外装饰板一体化,表面平直。
- 2、保温性能好:由于工厂化预制,大大减少了现有技术现场填充保温材料间的缝隙。极大提高建筑外墙外保温的效果。
- 3、装饰性能佳:装饰板材可以采用多种材料,如彩色铝板、不锈钢板、钛合金板等;充分展示建筑效果!
- 4、维护性能佳:本产品具有拆卸简单的特点,对外墙装饰板的维修,简单易行。
- 5、安装便捷:本产品充分考虑不同建筑的特点,可以自下往上安装,也可以自上往下安装。

1. Flat Surface: Materials integrated in factory, the panels have flat surface.
2. Heat-Insulation Effect: Factory prefabrication greatly improves the effect of thermal insulation.
3. Decoration Effect: Decorative plate are colored aluminum plate, stainless steel plate, etc, with nice surface effect.
4. Maintenance Effect: Easy for installation and disassemble, conveniently repaired and maintained.
5. Easy for installation: Installed from bottom to the top or in verse according to building characteristics.

名称 Items	OHC-NEW-MRP 幕墙复合板断面示意图 OHC-NEW-MRP Curtain Wall Sandwich Panel Pictures	用途 Purpose
不锈钢、铝合金幕墙夹芯板 Stainless Steel, Aluminum Alloy Curtain Wall Sandwich Panel	<p>600 (板有效宽度: 600 750 800 900 1000)</p> <p>20</p> <p>75 (板厚)</p> <p>20</p> <p>115</p> <p>夹芯板尺寸图</p>	墙面 Wall
幕墙夹芯板子母口 Major Seam and Minor Seam for Curtain Wall Sandwich Panel	<p>母口效果 Major Seam</p> <p>子口效果 Minor Seam</p>	Wall
墙板节点 Joints on wall		

克沃板®建筑幕墙复合板系列---新型四面企口系列 (MRP®-W)

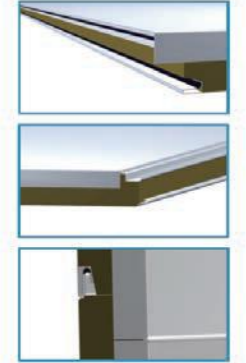
MRP Building Curtain Wall Sandwich Panel New Four-Side -Box Sandwich Panel (MRP-W)

建筑幕墙复合板的特点:

- 1、卓越的幕墙防火性能,耐火等级高达1-4小时。
- 2、外观整洁、大方,且金属质感好。
- 3、高性价比,建筑幕墙复合板是同饰感类金属装饰幕墙造价的60%-80%。
- 4、易于安装,满足多种安装要求。
- 5、组合多样化,色彩丰富,经久耐用。

Advantages of Building Curtain Wall Sandwich Panel:

1. Fire-resistant grade is 1-4 hours.
2. Perfect appearance, metal texture.
3. Cost performance, it is 60%-80% cost of the same kind metal decorate curtain wall.
4. It is easy for installation, meets different demands.
5. Variety compounding, various colors, endurable.



板厚 Panel Thickness (mm)	传热系数 U-value W/(m ² k)	面层厚度 Substrate thickness (mm)	板材重量 Panel weight (Kg/m ²)	宽度 width (mm)	长度 Length (mm)	备注 Note
50	0.8	0.5+0.6	17.85	1000	1000-13000	四面企口
80	0.5	0.5+0.6	22.358	1000	1000-13000	
100	0.41	0.5+0.6	25.360	1000	1000-13000	
120	0.29	0.5+0.6	28.362	1000	1000-13000	

注:选用洛克威公司生产的建筑幕墙岩棉,或同等品质的岩棉。岩棉容重120kg/m³Note: Our rock wool is from ROCKWOOL Company. Rock wool density: 120kg/m³.

金属墙面复合板系列

Metal Wall Sandwich Panels

A级防火金属墙面复合板系列

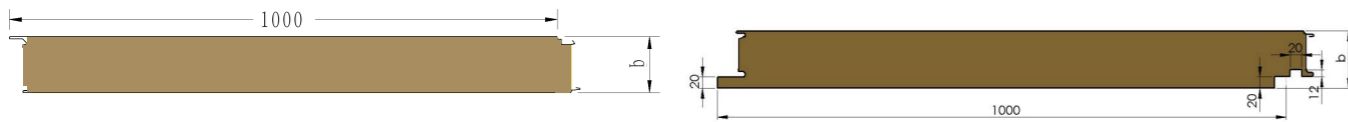
A-Grade (High) Fire-Resistant Metal Wall Sandwich Panels

东方诚A级金属墙面复合板, 由宝钢产镀锌铝锌彩涂钢板做面材, 洛科威岩棉国际公司生产的专业防火岩棉或欧文斯、金海燕玻璃丝棉做芯材, 用聚氨酯粘合剂连续复合成型。集防火、保温、防水、装饰和结构等优点于一身, 是高档工业建筑外围护系统的理想选材, 特别用于对防火、装饰有严格要求的建筑物。

OHC metal wall sandwich panel, use Baosteel aluminized zinc-coated steel coil, ROCKWOOL or Owens core material, etc, and polyurethane continuous adhesive molding. Products are fire-resistant, thermal insulated, waterproof, decorative, suitable for high-end industrial buildings with strict requirements on fire-resistance.

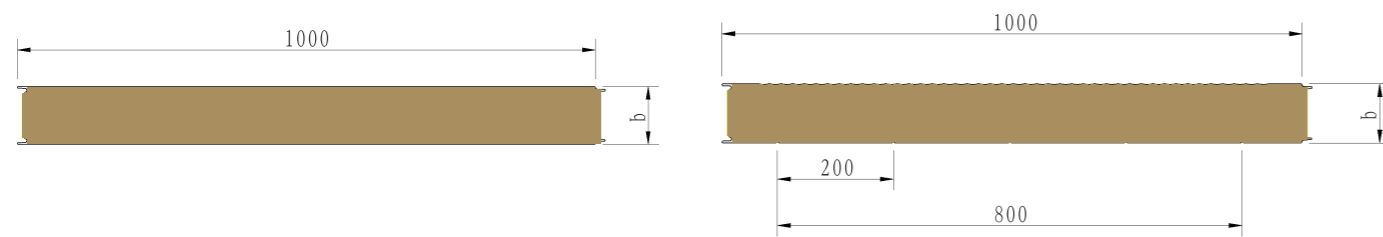
隐藏式金属墙面复合板系列 (MRP®-WR2)

Hidden Bolt Type Metal Wall Sandwich Panels (MRP®-WR2)



插接式金属墙面复合板系列 (MRP®-WR1)

Plug-In Type Metal Wall Sandwich Panels (MRP®-WR1)



V8墙面复合板系列 (MRP®-WR)

V8 Wall Sandwich Panels (MRP®-WR)



高防火值金属墙面复合板规格及允许荷载表 (允许变形 $f \leq 1/200$)

High fireproof Metal Wall Sandwich Panel Specification & Permissible Load Sheet (Allowed Deformed $f \leq 1/200$)

板厚 Thickness (mm)	传热系数 Heat transfer Coefficient (k) $w(m^2k)$	面层厚度 Sheet thickness (mm)	板材重量 Weight kg/m^2	P								P							
				L				L				L				L			
				P= kg/m^2	80	100	120	150	200	250	300	P= kg/m^2	80	100	120	150	200	250	300
50	0.8	0.45+0.5 0.5+0.5 0.5+0.6	15.13 15.55 16.49	L=	3.76	3.36	3.07	2.74	2.38	2.12	1.94	L=	3.36	3.01	2.27	2.46	2.12	1.90	1.73
80	0.5	0.45+0.5 0.5+0.5 0.5+0.6	18.43 18.88 19.96	L=	4.43	3.96	3.59	3.25	2.82	2.53	2.31	L=	3.96	3.55	3.22	2.91	2.53	2.27	2.07
100	0.41	0.45+0.5 0.5+0.5 0.5+0.6	21.73 22.15 23.09	L=	4.74	4.24	3.89	3.46	3.00	2.69	2.45	L=	4.24	3.79	3.44	3.10	2.69	2.40	2.19
120	0.29	0.45+0.5 0.5+0.5 0.5+0.6	25.03 15.45 16.39	L=	5.04	4.54	4.19	3.76	3.30	2.99	2.75	L=	4.52	4.03	3.66	3.29	2.85	2.53	2.31
150	0.23	0.45+0.5 0.5+0.5 0.5+0.6	29.99 30.40 31.34	L=	5.71	5.14	4.71	4.27	3.74	3.40	3.12	L=	5.12	4.57	4.16	3.70	3.26	2.90	2.65



聚氨酯侧封边复合板 (MRP®-WG/WR)

Sandwich Panel with PU Seal (MRP®-WG/WR)

东方诚金属节能复合板由自动化连续生产线复合而成，以镀锌或镀铝锌彩色涂层钢板为面材，防火岩棉、玻璃棉为芯材，高密度硬质聚氨酯发泡为企口填充，经过发泡固化复合成型。具有质轻、美观、防火、保温、安装快捷等特点，深受客户青睐的钢建筑围护材料。

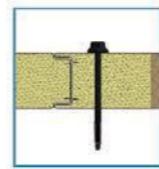
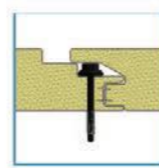
OHC® energy-saving metal sandwich panel is made by automatic continuous production line, with galvanized or Al-Zn color coating steel plates as the surface materials, and rock wool or glass wool as core materials, and high density rigid polyurethane foam as edge filling and sealing, through foaming curing molding. It is light weight, beautiful, fireproof, heat insulated, fast installation, etc. So it is good for steel buildings.



隐藏式墙面板 Hidden Bolt Wall Panels



插接式墙面板 Plug-In Wall Panels



性能描述:

1. 燃烧性能达到复合板燃烧材料不燃A级;
2. 企口两侧采用聚氨酯作为填充,有效降低热传导,切断水渗漏,防止玻璃棉、岩棉吸水而降低强度和保温性能。
3. 企口两侧增强整体强度,防止企口变形。

Performance:

1. Its fire-resistant level is A, incombustible;
2. Both sides of panel are filled with PU, reduces heat conduction, water proof, keep thermal insulation.
3. Improve overall strength on both sides of the panel to prevent deformation.

聚氨酯侧封边复合板 (玻璃棉芯材) 载荷及传热系数 (MRP®-WG)

Load and Heat Transfer Coefficient of PU Side-Sealed Sandwich Panel (Glass Wool) (MRP®-WG)

板厚	K 值 (K/m ² .h.°C)	板重	荷载分布												
			P=kg / m ²	简支 (mm)						连续 (mm)					
				60	80	100	120	150	200	60	80	100	120	150	200
50	0.69	12.61	L=	4291	3746	3349	3042	2684	2254	4850	4195	3644	3407	3006	2524
75	0.43	14.16	L=	5711	5004	4490	4091	3627	3067	6396	5604	4897	4590	4062	3435
100	0.32	15.71	L=	6959	6106	5486	5005	4445	3770	7794	6694	6838	5625	4978	4222

聚氨酯侧封边复合板 (岩棉芯材) 载荷及传热系数 (MRP®-WR)

Load and Heat Transfer Coefficient of PU Side-Sealed Sandwich Panel (Rock Wool) (MRP®-WG)

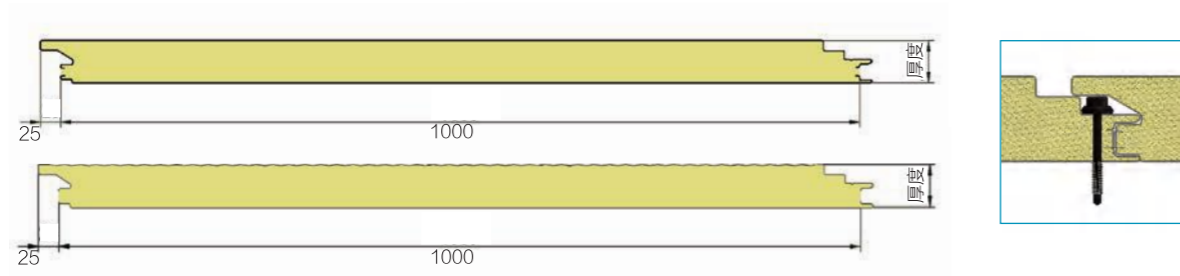
板厚	K 值 (K/m ² .h.°C)	板重	荷载分布												
			P=kg / m ²	简支 (mm)						连续 (mm)					
				60	80	100	120	150	200	60	80	100	120	150	200
50	0.8	15.13	L=	4207	3655	3254	2942	2581	2148	4711	4093	3644	3295	2890	2405
75	0.53	17.94	L=	5609	4894	4373	3969	3500	2936	6282	5481	4897	4445	3920	3288
100	0.41	20.75	L=	6804	5977	5349	4862	4296	3614	7660	6694	5990	5445	4811	4047

注:以上数值取自外钢板0.6mm,内钢板0.5mm,岩棉容重120kg/m³,板型为1000mm,板厚50-150mm。

Note: In the sheet, outer skin panel 0.6mm, inner skin panel 0.5mm, rock wool density 120kg / m³, effective width 1000mm, panel thickness is 50-150mm.

隐藏式金属节能墙面板 (MRP®-WP4)

Hidden Bolt Metal Energy Saving Wall Panel (MRP®-WP4)



产品性能

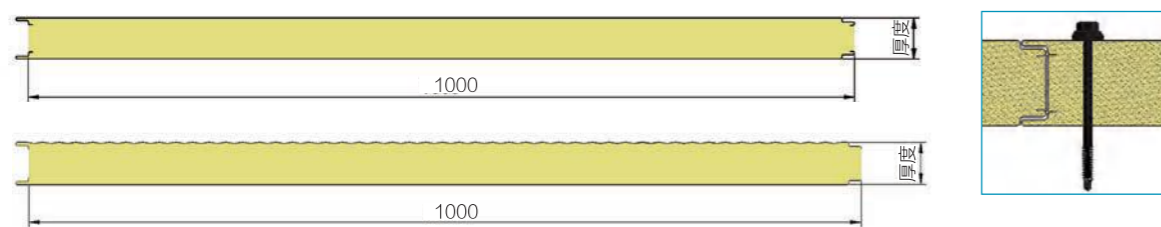
不漏钉, 防止锈蚀, 平整美观; 隐藏式连接, 横排竖放均可, 插接严密; 连接处符合力学设计, 受力均衡, 抗负风压能力强。

Product Performance

No visual bolt, panel surface is flat and beautiful. Panels can be installed very well, tightly connected. The connection conform to mechanical design, the strength is balanced, and wind-resistance.

插接式金属节能墙面板 (MRP®-WP3)

Plug-In Type Metal Energy Saving Wall Panel (MRP®-WP3)



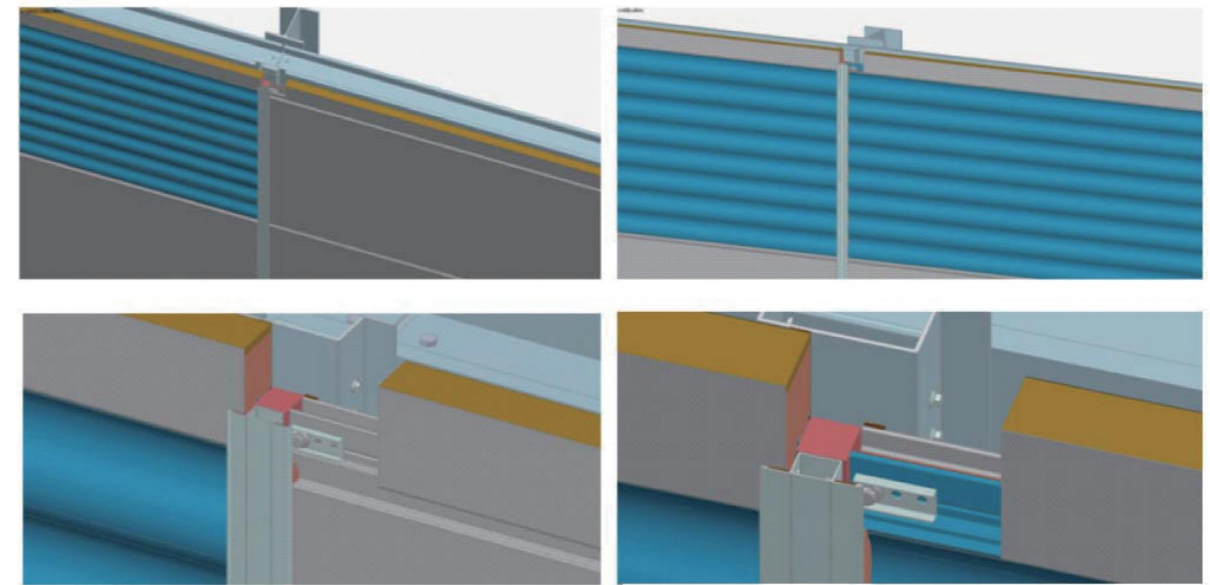
产品性能

双向插口平整稳定, 安全可靠, 配备双面中空密封胶条, 具有较佳的气密性和防水性; 提高钢板使用率, 经济适用。

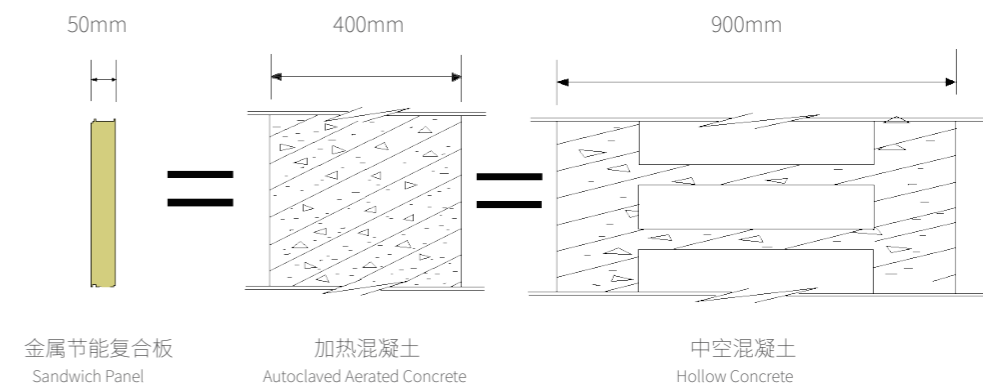
Product Performance

Panel is flat and stable, safe, reliable, well-sealed, has excellent air tightness and water resistance.

Increase steel plate usage, economical and applicable.



同等保温功能下 (U值=0.47w/m²k) 不同材料的厚度 Under Same Thermal Insulation



金属节能墙面板荷载及传热系数表 Load and Heat Transfer Coefficient Table for Metal Energy-Saving Wall Panel

板厚	K 值 (K/m².h.°C)	板重	荷载分布												
			P=kg/m²	简支 (mm)						连续 (mm)					
				60	80	100	120	150	200	60	80	100	120	150	200
50	0.32	11.38	L=	4268	3721	3323	3014	2655	2224	4780	4167	3721	3375	2973	2490
75	0.21	12.38	L=	5688	4980	4464	4064	3599	3038	6370	5577	4999	4551	4030	3402
100	0.16	13.38	L=	6941	6087	5466	4984	4423	3746	7773	6817	6121	5582	4953	4195
120	0.13	14.18	L=	7853	6890	6189	5645	5013	4250	8795	7716	6931	6322	5614	4760
150	0.13	15.38	L=	9099	7980	7166	6534	5800	4913	10190	8937	8025	7318	6496	5502

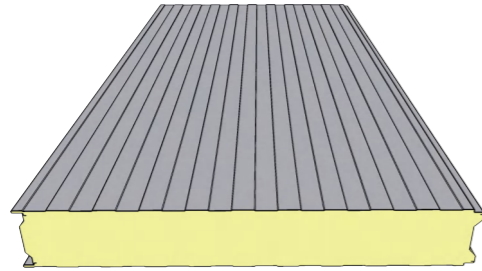
注: 以上数值取自外钢板0.6mm, 内钢板0.5mm, 聚氨酯容重40kg/m³

Note: In the sheet, outer skin panel 0.6mm, inner skin panel 0.5mm, polyurethane density is 40kg/m³.

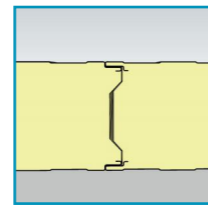
克沃板®金属冷库板系列

MRP® Metal Cold Storage Panel

冷库板 Cold Storage Panel



金属面聚氨酯冷库板板型图



金属面聚氨酯冷库板板型图

聚氨酯冷库板性能参数 Parameters of Polyurethane Cold Storage Panel

长度 Length(m)	≤14
厚度 Thickness(mm)	100 120 150 175 200
有效宽度 Effective Width(mm)	1000, 1140
导热系数 Thermal Conductivity(w/m*k)	0.022
平均密度 Density(kg/m ³)	35-55
抗压强度 Compressive Strength(Mpa)	≥0.2
最高工作温度 max. temp in work	90°C
最低工作温度 min. Temp in work	-120°C

东方诚公司引进意大利进口多组份高压发泡设备。该设备是由具有丰富行业经验的意大利设计师和工程师研发，设计，并经过20多家国内外聚氨酯板生产厂家的实际使用，产量超过1000万平米。经过不断的更新和改善，现该设备配置先进的Siemens西门子的闭环控制系统，精密的Roxroth力士乐高压柱塞泵，及精确的Endress-Hauser恩德斯豪斯质量流量计等进口硬件，并在海外组装，整体运输，模块式对接生产线，保证了生产过程的易操作性和工艺的稳定性。因此可以生产环保、保温、难燃、美观的金属节能聚氨酯板。发泡工艺决定产品质量，各组充分反应需要一定时间，东方诚引进世界先进性的金属复合板全套连续自动化生产线，双履带主机长度大于32米，并配置自动凉板装置，增加有效固化时间，让聚氨酯充分固化，板材性能更加稳定，品质更加优良。

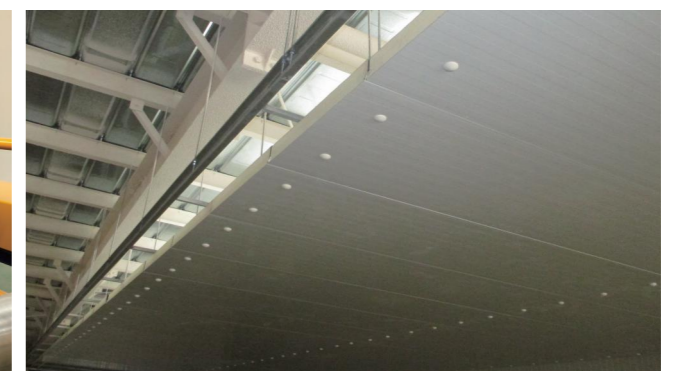
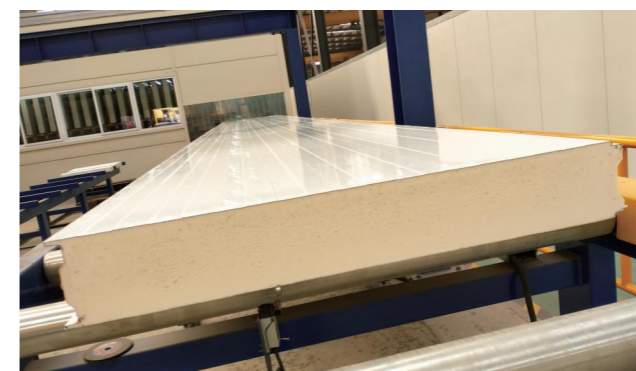
OHC Company has imported multi-component high pressure foaming machine from Italy. Designed, researched and developed by experienced Italian designers and engineers, applied by over 20 polyurethane sandwich panel manufacturers around the world, the machine has an output of more than 10 million square meters of panels. Thanks to continuous innovation and improvement, it has been equipped with advanced Siemens closed loop control system, precise Rexroth high pressure plunger pumps, Endress-Hauser mass flowmeter and other hardware assembled abroad, integrally transported with its modular docking production line, thus easy-operated production procedure and stable process are ensured for providing environmental-friendly, thermal-insulated, nonflammable and good-looking metal energy-saving polyurethane sandwich panels for customers. Foaming process determines product quality. OHC introduces a complete set of world-leading continuous automated production lines for metal sandwich panel. Double crawler length is more than 32 meters, with special devices to make PU fully solidified, producing better panels.

产品性能 Product Performances

东方诚推出的聚氨酯板采用独特的隐藏插入式结构，是全新概念的建筑外墙装饰板，双重密封防水设计系统具有优异的气密性、水密性，采用不含氟氯化物的聚氨酯PU、聚异氰脲酸酯PIR等芯材，可达到B2、B1级，以独具匠心的设计，使装饰面更加整洁美观。广泛用于冷链物流、食品加工、畜牧业等行业，具有良好的效果。

The polyurethane panel introduced by OHC is hidden plug-in structure, new building decorative panel. The double-sealed waterproof design system is air and water tightness. PIR and other core materials can reach B2, B1 grade. They are widely used in cold chain logistics, food processing, animal husbandry and other industries.

芯材种类 Core Materials	PU(聚氨酯)	PIR(聚异氰脲酸酯)
导热系数 Q(W/MK) Thermal Conductivity	≤0.023	≤0.02
保温芯材密度(kg/m3) Density	40±2	40±2
抗压强度(Kpa) Compressive Strength	185	220
吸水性 Water Absorption	≤3	≤3
尺寸稳定性(±%) Stability	≤1	≤1
闭孔率 Percentage of Close Area	≥97%	≥97%
耐高低温范围 High&Low Temp. Resistance	-185°C~120°C	-196°C~160°C
阻燃性能 Fire Resistance Level	B1、B2	B1

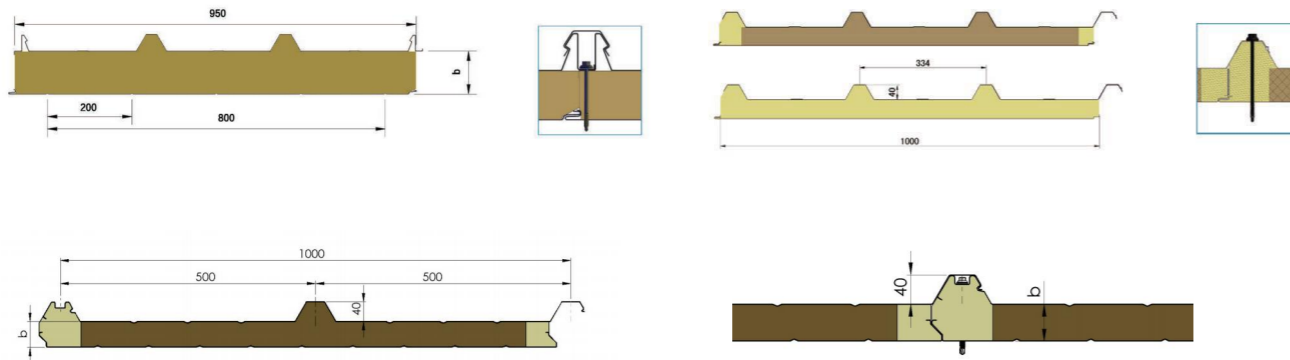


金属屋面复合板系列(MRP®-R)

Metal Roof Sandwich Panels (MRP®-R)

东方诚为满足不同建筑需求, 开发生产金属屋面复合板系列, 根据客户的不同需求选用不同规格的彩涂钢板, 芯材选用岩棉、玻璃棉或聚氨酯(PUR/PIR)泡沫。金属屋面复合板采用隐藏式不露钉连接方式, 防火、防水、荷载性能高、结构稳定, 是中小型工业建筑屋面的理想用材。

To meet different building demand, OHC has developed metal roof sandwich panel. Color-coated steel plates are skin panels. Rock wool, glass wool or PUR / PIR foam are core material. Use hidden bolt connection method, panels are fireproof, waterproof, high load performance, and stable structure.



金属屋面复合板规格及允许荷载表 (允许变形 $f \leq 1/200$)

Specification & Allowed Load of Metal Roof Sandwich Panels (Allowed Deformed $f \leq 1/200$)

板厚 Thickness (mm)	传热系数 Heat transfer Coefficient (k)w/(m²k)	面层厚度 Sheet thickness (mm)	板材重量 Weight kg/m²	P								P							
				P=kg/m²	80	100	120	150	200	250	300	P=kg/m²	80	100	120	150	200	250	300
50	0.8	0.45+0.5 0.5+0.5 0.5+0.6	15.13 15.55 16.49	L=	3.76	3.36	3.07	2.74	2.38	2.12	1.94	L=	3.36	3.01	2.27	2.46	2.12	1.90	1.73
80	0.5	0.45+0.5 0.5+0.5 0.5+0.6	18.43 18.88 19.96	L=	4.43	3.96	3.59	3.25	2.82	2.53	2.31	L=	3.96	3.55	3.22	2.91	2.53	2.27	2.07
100	0.41	0.45+0.5 0.5+0.5 0.5+0.6	21.73 22.15 23.09	L=	4.74	4.24	3.89	3.46	3.00	2.69	2.45	L=	4.24	3.79	3.44	3.10	2.69	2.40	2.19
120	0.29	0.45+0.5 0.5+0.5 0.5+0.6	25.03 15.45 16.39	L=	5.04	4.54	4.19	3.76	3.30	2.99	2.75	L=	4.52	4.03	3.66	3.29	2.85	2.53	2.31
150	0.23	0.45+0.5 0.5+0.5 0.5+0.6	29.99 30.40 31.34	L=	5.71	5.14	4.71	4.27	3.74	3.40	3.12	L=	5.12	4.57	4.16	3.70	3.26	2.90	2.65

注: 上表计算取岩棉容重120kg/m³ Note: Rock wool density 120kg/m³

金属节能(聚氨酯)屋面复合板荷载及传热系数表(MRP®-RP)

Load and Heat Transfer Coefficient of Metal Energy Saving (Polyurethane) Roof Sandwich Panel (MRP®-RP)

板厚	K值 (K/m².h.°C)	板重	荷载分布												
			P=kg/m²	简支 (mm)						连续 (mm)					
				60	80	100	120	150	200	60	80	100	120	150	200
50	0.32	12.05	L=	4606	4070	3680	3378	3027	2602	5158	4558	4212	3783	3390	3914
75	0.21	13.05	L=	5767	5078	4578	4190	3738	3192	6459	5687	5127	4692	4186	3575
100	0.16	14.05	L=	6818	8993	5393	4927	4385	3731	7636	6712	6040	5518	4911	4178
120	0.13	14.85	L=	7616	6690	6017	5494	4886	4152	8529	7492	6739	6153	5472	4650
150	0.11	16.05	L=	8780	7716	6943	6343	5644	4800	9833	8641	7776	7104	6321	5376

注: 以上数值取自外钢板0.6mm, 内钢板0.5mm, 聚氨酯容重40kg/m³

Note: In the sheet, outer skin panel 0.6mm, inner skin panel 0.5mm, polyurethane density is 40kg/m³.

聚氨酯封边屋面复合板(岩棉芯材)荷载及传热系数表(MRP®-RR)

Load and Heat Transfer Coefficient of PU Seal (Rock Wool) Roof Sandwich Panel (MRP®-RR)

板厚	K值 (K/m².h.°C)	板重	荷载分布												
			P=kg/m²	简支 (mm)						连续 (mm)					
				60	80	100	120	150	200	60	80	100	120	150	200
50	0.8	13.08	L=	4520	3975	3580	3273	2916	2484	5062	4452	4009	3665	3265	2782
75	0.53	14.63	L=	5631	4931	4421	4026	3566	3012	6306	5522	4951	4509	3993	3373
100	0.41	16.18	L=	6639	5798	5186	4711	4159	3995	7435	6493	5808	5297	4658	3914

注: 以上数值取自外钢板0.6mm, 内钢板0.5mm, 岩棉容重120kg/m³, 板型为1000型, 板厚为50-150mm

Note: In the sheet, outer skin panel 0.6mm, inner skin panel 0.5mm, rock wool density is 120kg/m³, panel 1000mm wide, 50-150mm thick.

聚氨酯封边屋面复合板(玻璃丝棉芯材)荷载及传热系数表(MRP®-RG)

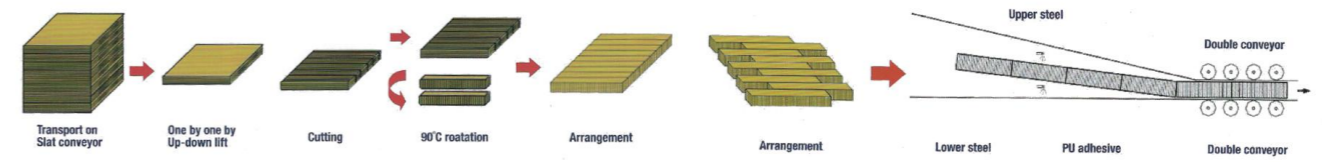
Load and Heat Transfer Coefficient of PU Seal (Glass Wool) Roof Sandwich Panel (MRP®-RG)

板厚	K值 (K/m².h.°C)	板重	荷载分布												
			P=kg/m²	简支 (mm)						连续 (mm)					
				60	80	100	120	150	200	60	80	100	120	150	200
50	0.69	13.08	L=	4585	4047	3656	3353	3000	2573	5093	4532	4094	3755	3360	2881
75	0.43	14.63	L=	5724	5032	4529	4138	3684	3135	6410	5635	5072	4634	4126	3511
100	0.32	16.18	L=	6756	5925	5321	4852	4306	3648	7566	6636	5959	5434	4822	4085

注: 以上数值取自外钢板0.6mm, 内钢板0.5mm, 玻璃棉容重64kg/m³, 板型为1000型, 板厚为50-150mm

Note: In the sheet, outer skin panel 0.6mm, inner skin panel 0.5mm, glass wool density is 64kg/m³, panel 1000mm wide, 50-150mm thick.

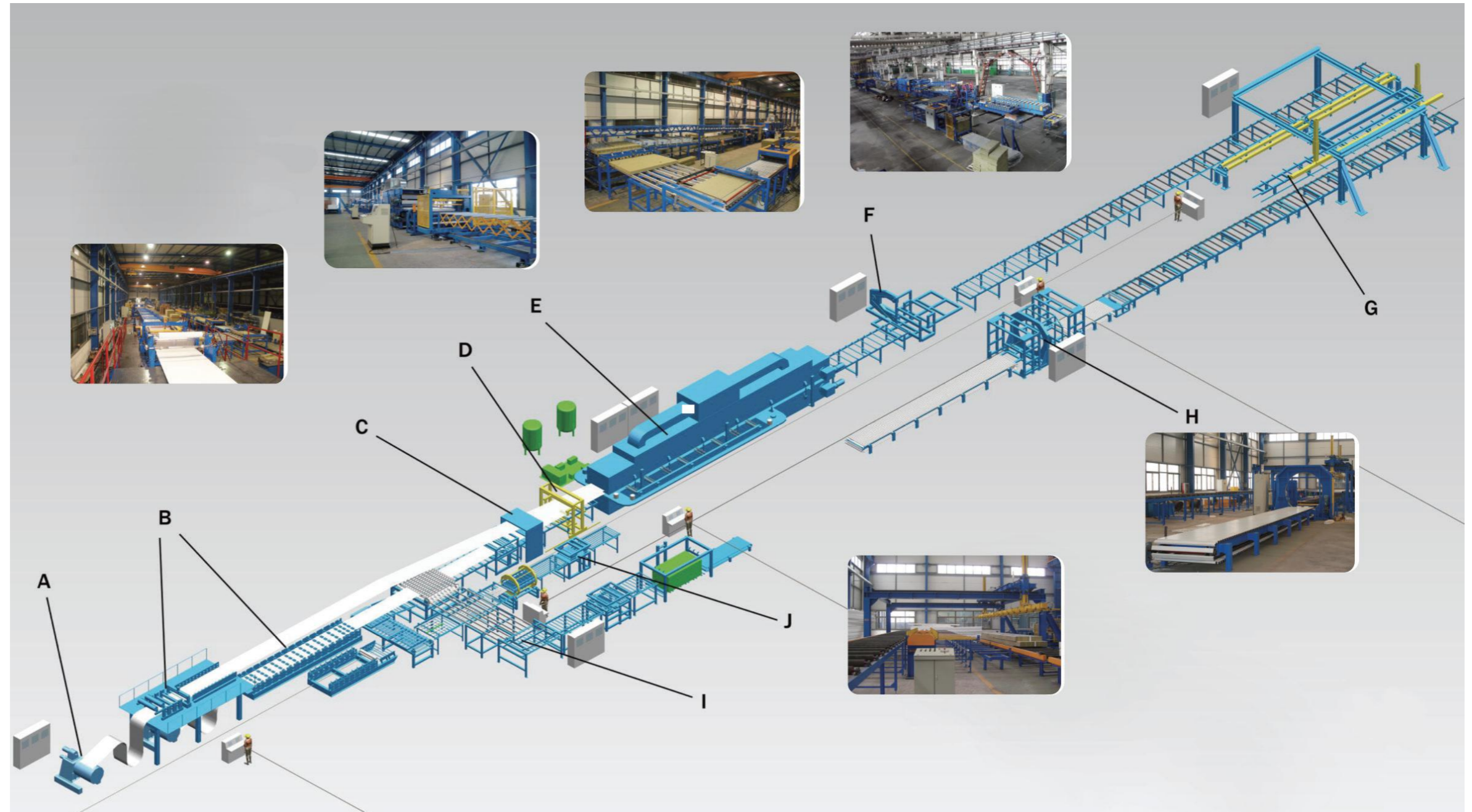
克沃板®生产工艺 Production Process



生产工艺流程

- A、钢板开卷机
- B、锻板压型机
- C、预热房
- D、匀胶装置(发泡系统)
- E、双履带机
- F、切割机
- G、堆垛系统
- H、包装系统
- I、岩棉条切割、输送系统
- J、岩棉梯形条切割、输送系统

- A、Decoil Machine
- B、Molding Press Machine
- C、Preheating Room
- D、Spread Sealant Device
- E、Double-Crawler Machine
- F、Cutting Machine
- G、Stow System
- H、Packing System
- I、Rock Wool Strip Cut,Transport System
- J、Rock Wool Trapezoid Strip Cut,Transport System

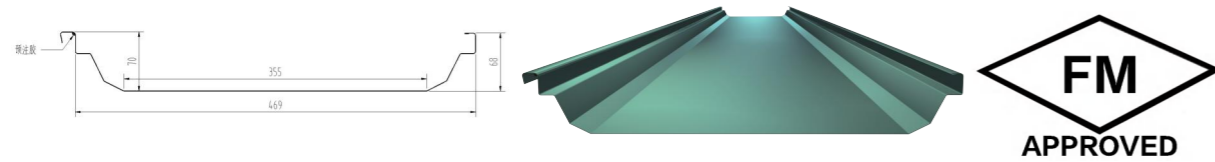


OHC®-R70 360°直立锁缝式屋面板系统、不锈钢屋面系统

OHC-R70 360°Standing Seam Roof System Stainless Steel Metal Envelope System

东方诚钢构研究国内外先进的施工工艺, 结合自己近20年的实践经验, 通过近千个工程建设, 创建了自己的钢结构建筑外围护体系, OHC屋面围护系统, 用R-470直立锁缝咬合板, 选用高强镀铝锌彩涂板 (0.5-0.6mm) 压制而成。采用独创的十几种连接件、支架、滑块, 并取得FM认证, 使屋面随环境、温度变化整体滑动, 确保钢结构受力的稳定性, 屋面良好的防水性。

OHC studied advanced construction technology around the world, combined with its nearly 20 years of practical experience, undertaking about a thousand engineering constructions, created OHC R-470 standing seam roof, made by high-strength aluminized zinc coating (0.5-0.6mm). Using more accessories, and obtaining FM certification, the roof slides as a whole with changes in the environment and temperature, ensuring the stability of the steel structure under stress, and it is water-proof.



东方诚建筑围护系统特点:

- 1、360°直立锁缝, 一板到底, 无需搭接。
- 2、滑动屋面系统, 设计独特, 性能优越, 彻底解决屋面温度应力问题。
- 3、全屋面系统实现侧面锚接、刚性防水、永无漏水之虞。
- 4、圆弧横装墙板, 造型新颖美观。

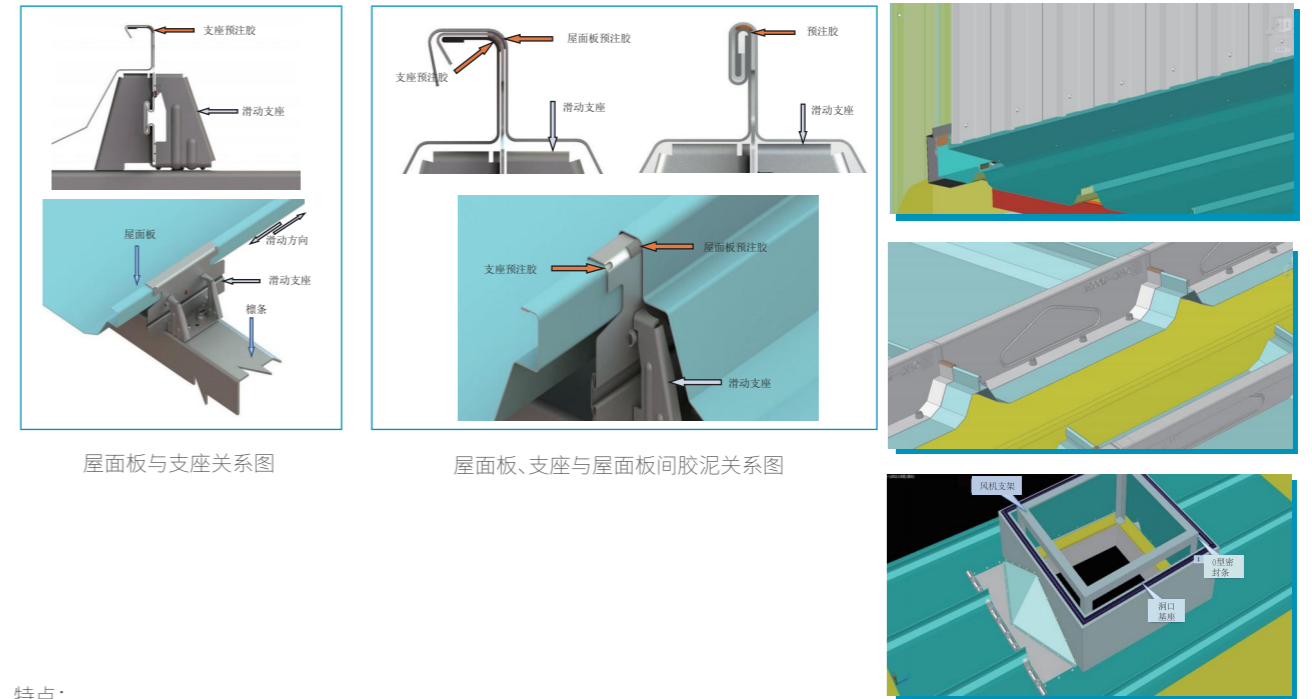
Advantages of OHC Building Envelope System:

1. 360° standing seam, install directly from ridge to the edge of roof, no overlap.
2. Sliding roof system completely solves the roof temperature stress problem.
3. The whole roof system realizes side anchoring, rigid waterproof, and never leaks.
4. Arc-shaped cross-mounted wallboard with novel and beautiful shape.

OHC-屋面的板型及力学参数

Profile and Mechanical Parameters of OHC - Steel Roof

有效宽度 (mm)	展开宽度 (mm)	波高 (mm)	波距 (mm)	板厚 (mm)	截面惯性矩 (cm ⁴ /m)	截面抵抗矩 (cm ³ /m)	用途
470	600	70	470	0.4	10.22	8.43	360°咬合式屋面板
				0.5	12.26	10.44	
				0.6	14.30	12.45	

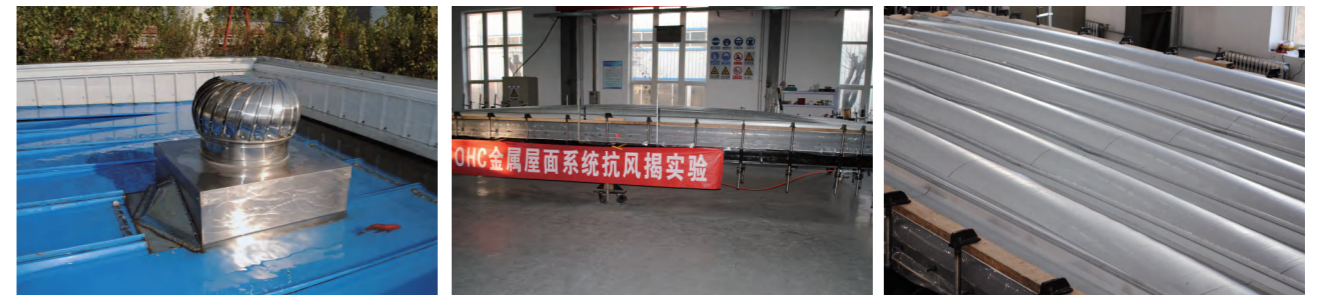


特点:

- a/ 360°夹胶锁缝, 一板到底, 防水、耐久性最佳。
- b/ 专利技术, 高强度滑动支座连接, 满足不同长度的屋面搭接, 彻底解决热胀冷缩对屋面的破坏。
- c/ 整体系统获得FM认证, 抗风性能国际领先。

Features:

- a / 360° glued seam, install directly from ridge to the edge of roof, waterproof and durable.
- b / Patent technology, sliding support connected to meet the overlap of roofs of different lengths, prevent damage caused by thermal expansion and contraction to the roof.
- c / With FM certification, wind-resistant.



OHC-不锈钢金属围护系统 OHC - Stainless Steel Metal Envelope System

不锈钢的材料特性 Features of Stainless Steel Material

作为金属围护系统使用的不锈钢,其材料具有以下几个方面的优异特性。

高耐久性:不锈钢具有优异的耐腐蚀性能,使用寿命在50年以上。

焊接性能好:不锈钢具有优异的可焊接性能,在金属围护系统的应用上,各种不锈钢板型以及泛水板配件间可以通过全封闭焊接的方式连接。

经济指标高:不锈钢材料使用寿命长,在寿命周期内不需要维护,因此在全寿命周期内综合成本很低。

持续发展性好:由于不锈钢材料100%可回收,使用寿命周期内屋面重金属流失率极低。

耐高温性能好:不锈钢材料在800°C可以维持60%以上的强度,其熔点远高于铝板、钛锌板、铜板等。

强度高:不锈钢的极限破坏强度,将近600MPa,具有很大的安全储备空间。

建筑效果好:不锈钢表面处理可以多种多样,既可以表现不锈钢特有的材质外观,也可彩色不锈钢。

Advantages of Stainless Steel Used in Metal Building Envelope System:

High Durability:Corrosion-resistant, service life is more than 50 years.

Weldable: In metal envelope systems, various stainless steel plate types and fittings of flashing parts can be connected by fully enclosed welding.

Economical: Long service life, no need to repair within service life, so it' s low cost.

Sustainable: Stainless steel material is 100% recyclable.


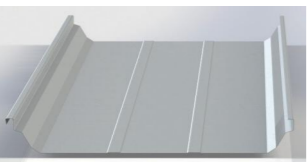
Good High Temperature Resistance: stainless steel can maintain more than 60% strength at 800 °C, and its melting point is high.

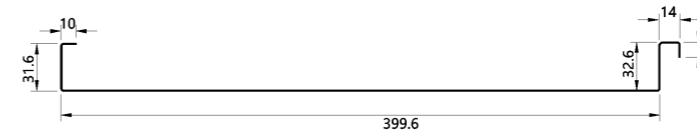
High Strength:The ultimate breaking strength of stainless steel is nearly 600MPa, which has a large safety reserve.

Good Construction Effect: the surface treatment of stainless steel can be various.

OHC-不锈钢屋面的板型及力学参数

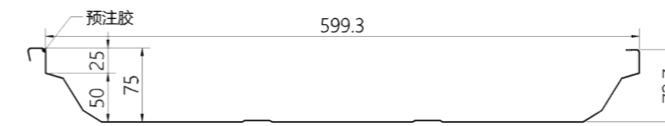
Profiles and Mechanical Parameters of OHC - Stainless Steel Roof

名称 Panel	截面形状 Profile Picture	有效宽度 (mm) Effective Width	展开宽度 (mm) Total Width	板厚 (mm) Thick	截面惯性矩 Cross-Section Area Moments of Inertia (cm ⁴ /m)	截面模量 Cross Section Modulus (cm ³ /m)	用途 Purpose
OHC-R32		400	492	0.5	4.556	1.604	屋面 Roof
				0.6	5.684	2.00	屋面 Roof
OHC-R75		600	738	0.6	35.62	6.52	屋面 Roof
				0.7	43.00	7.73	屋面 Roof



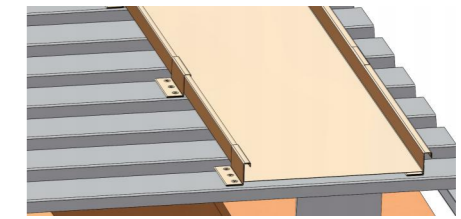
不锈钢焊接屋面系统 OHC-R32型屋面板

Stainless Steel Welded Roof System OHC-R32



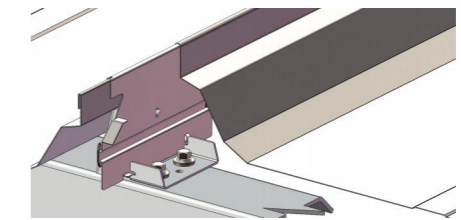
不锈钢直立锁缝屋面系统 OHC-R75型屋面板

Stainless Steel Standing Seam Roof System OHC-R75



OHC-R32屋面板与固定支架连接示意图


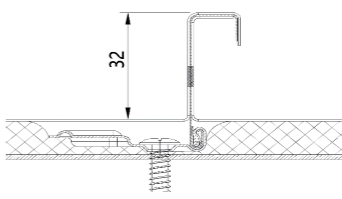

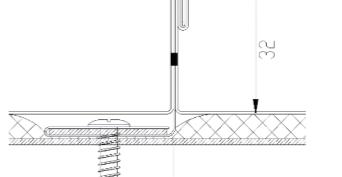

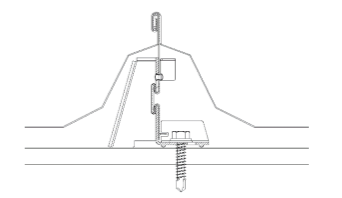
Connection Between OHC-R32 Roof Panel and Fixed Support



OHC-R75屋面板与滑动支架连接示意图

Connection Between OHC-R32 Roof Panel and Fixed Support

不锈钢屋面板用配件 Accessories of Stainless Steel Roof System

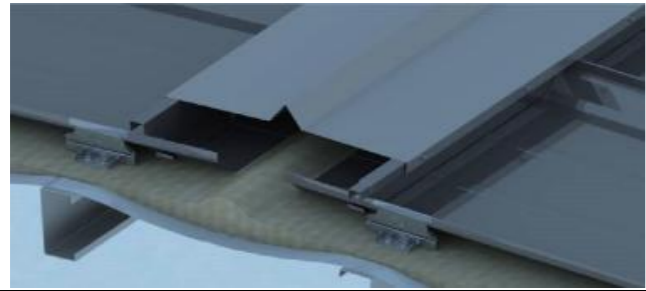
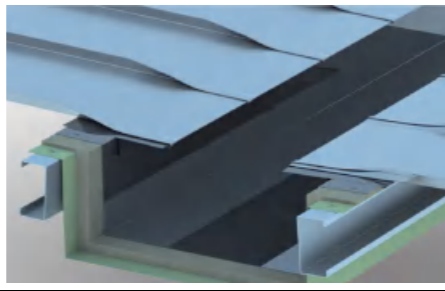

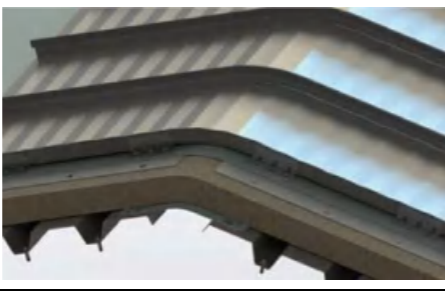
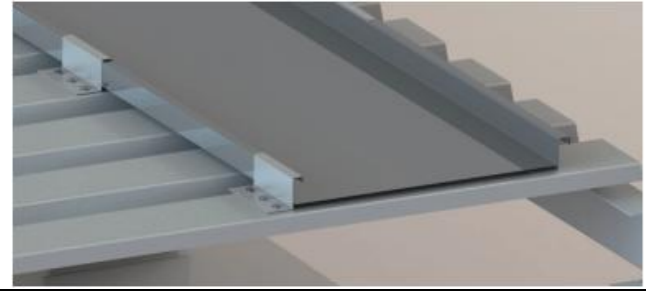

名称	连接支架示意图 Picture for Support Connection	连接节点大样图 Sample of Connection Joint	用途 Purpose
OHC-R32 滑动支架 OHC-R32 Sliding Support			焊接不锈钢屋面 Welded Stainless Steel Roof
OHC-R32 固定支架 OHC-R32 Fixing Support			焊接加锁边不锈钢屋面 Welded and Standing Seam Stainless Steel Roof
OHC-R75-6085 滑动支架 OHC-R75-6085 Sliding Support			直立锁边(或焊接)不锈钢屋面 Standing Seam (or Welded) Stainless Steel Roof

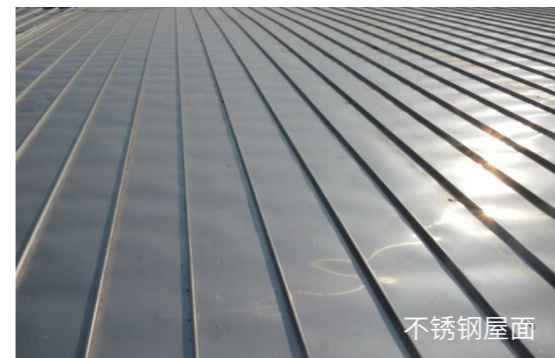
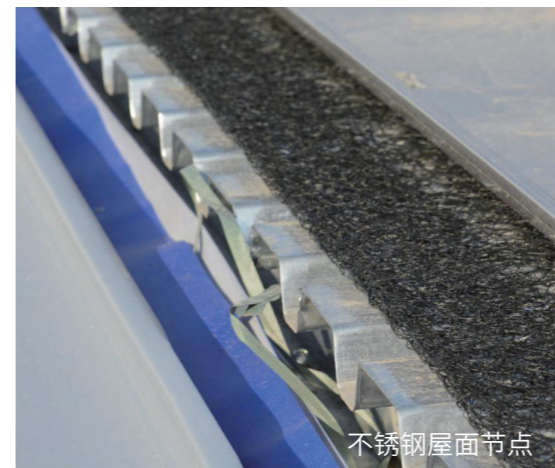
不锈钢屋面系统的节点处理

Joints of Stainless Steel Roof System

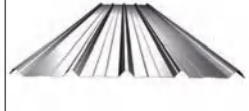





不锈钢金属围护系统,可适应各种不同建筑造型的需要,既可焊接也可进行360°直立锁边,还可以采用焊接与直立锁边相结合的方式。

The stainless steel metal enclosure system can meet the needs of various building shapes. It can be welded or 360° standing seam, it can also be combined with welding and standing seam.

	
<p>360°直立锁边的屋脊节点 Roof Ridge Joint on 360° Standing Seam</p>	<p>矮立边不锈钢焊接屋面的天沟节点 Gutter Joint for Dwarf Standing Seam Stainless Steel Welding Roof</p>
	
<p>矮立边焊接屋面的高低跨屋脊节点 High-Low Span Ridge Joint for Dwarf Standing Seam Welding Roof</p>	<p>矮立边焊接屋面屋脊节点 Roof Ridge Joint for Dwarf Standing Seam Welding Roof</p>
	
<p>不锈钢屋面板与固定支座的连接 (图中未显示保温、防水层等构造) Connection of Stainless Steel Roof and Fixed Support (Structure such as insulation and waterproofing layer is not shown in the picture)</p>	<p>不锈钢屋面板与楼承板连接布置 Connection of Stainless Steel Roof and Floor Deck</p>

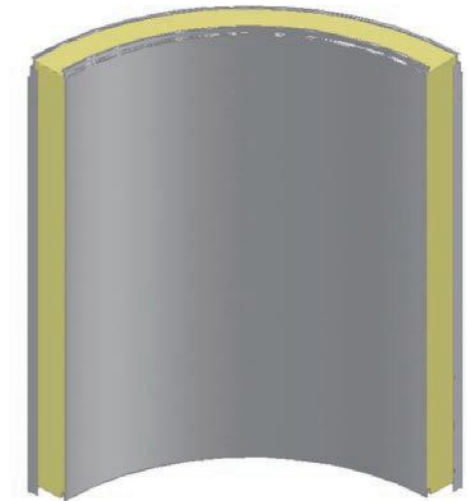


OHC墙面系统 OHC Wall Panels

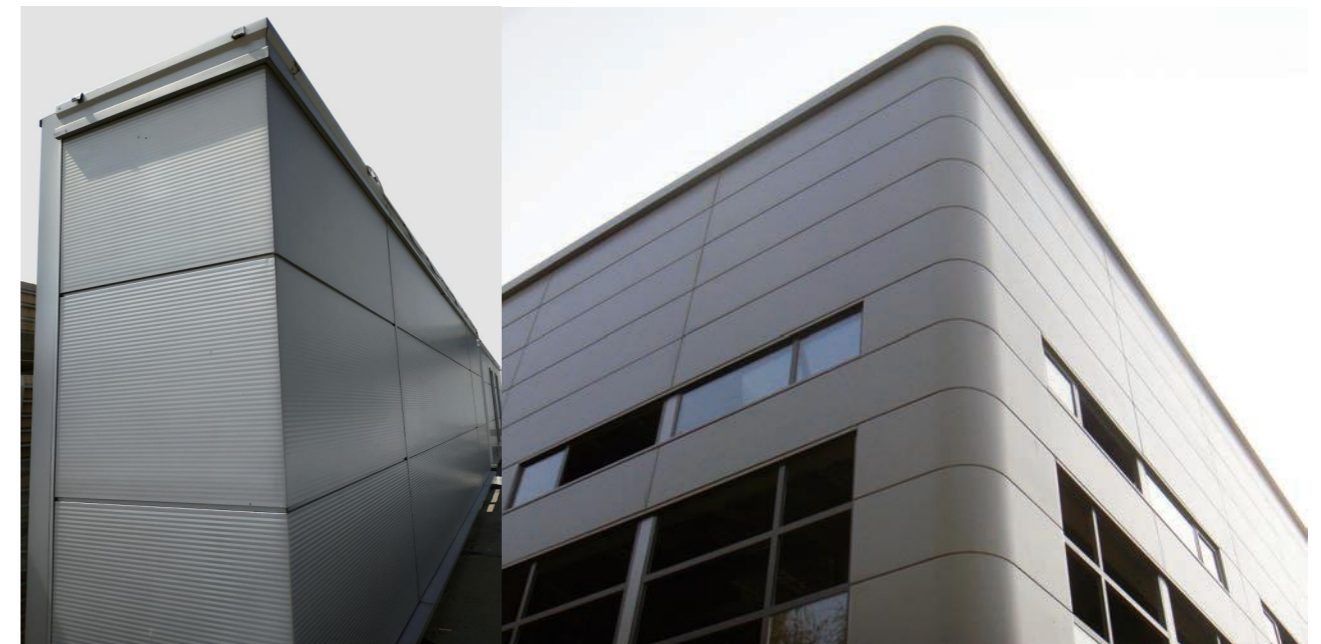
	OHC ^o -W28	有效宽度 (mm)	展开宽度 (mm)	板厚 (mm)	截面惯性矩 (cm ⁴ /m)	截面抵抗矩 (cm ³ /m)	用途
				0.5	10.28	5.24	
				0.6	12.05	6.33	
	OHC ^o -W18	有效宽度 (mm)	展开宽度 (mm)	板厚 (mm)	截面惯性矩 (cm ⁴ /m)	截面抵抗矩 (cm ³ /m)	用途
				0.5	1.99	2.34	
				0.6	2.38	2.77	
	OHC ^o -W18Plus	有效宽度 (mm)	展开宽度 (mm)	板厚 (mm)	截面惯性矩 (cm ⁴ /m)	截面抵抗矩 (cm ³ /m)	用途
				0.5	8.71	4.84	
				0.6	10.45	5.81	
	OHC ^o -W18A	有效宽度 (mm)	展开宽度 (mm)	板厚 (mm)	截面惯性矩 (cm ⁴ /m)	截面抵抗矩 (cm ³ /m)	用途
				0.5	13.66	7.59	
				0.6	16.40	8.82	
	OHC ^o -W35	有效宽度 (mm)	展开宽度 (mm)	板厚 (mm)	截面惯性矩 (cm ⁴ /m)	截面抵抗矩 (cm ³ /m)	用途
				0.5	11.54	6.23	
				0.6	13.85	7.48	
	OHC ^o -W15	有效宽度 (mm)	展开宽度 (mm)	板厚 (mm)	截面惯性矩 (cm ⁴ /m)	截面抵抗矩 (cm ³ /m)	用途
				0.4	5.3	2.07	
				0.5	6.65	3.56	
				0.6	8.03	4.31	内吊顶板 内墙板



直角转角板
Right angle plate




圆弧转角板
Arc angle plate



OHC外围护体系配件系统 FITTING TYPICAL PRODUCT

为保证OHC建筑围护体系的适用性、通用性,东方诚集团开发了几十种专用配件、转换件、标准支架。通过可靠、巧妙的连接,做到屋面一板到底、整体滑动、侧面连接、刚性防水、预制装配,永无漏水之虞的目的。

In order to ensure the applicability and versatility of the OHC building envelope system, OHC Group has developed dozens of special accessories, conversion parts, and standard supports.

配件图	品名	规格	用途	专利号
	OHC [®] - 001 滑动支架	470 系列 80,90,100 型	确保屋面板与次结构连接 牢固且能相对结构滑动	—
	OHC [®] - 002 山墙滑动支架	470 系列 80,90,100 型	确保屋面板与山墙泛水件 连接牢固且能相对结构滑	ZL201120028663.6
	OHC [®] - W004B 泛水滑动支架	通用型	确保山墙泛水件与墙、屋 面连接牢固且能相对滑动	ZL201120023467.X
	OHC [®] - W002A 屋脊挡水板	470 系列	确保屋脊处屋面板防水	201120028672.5
	OHC [®] - W018 采光带衬板	470 系列	确保屋面板与采光带连接 之间连接牢固	ZL201120072616.1
	OHC [®] - W009CB 支撑衬板	470 系列	确保屋面板屋脊处的刚度 与定位	—
	檐口挡水板	470 系列	确保屋面板檐口处定位准 确,与天沟次结构连接牢 固,增强防水性	ZL201220742538.6
	OHC [®] - W016 采光带压条	470 系列	保证采光带与屋面板或屋 面板与次结构连接整体紧	—
	钢混连接 转换件	专用	用于解决钢结构与混凝土 构件快速安全连接	201220746037.5

服务系统

Service System

东方诚秉承“服务创造价值,品牌铸造尊严”的企业理念,为客户提供高性价比的产品及详实周到的服务。

OHC Philosophy: service create value.brand built honour,supply high cost performance products and the best service.

五大服务方案

Five Service Schemes



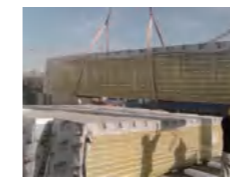
运输方案:本品适用于汽车、火车、轮船等多种运输方式,运输过程中需注意防水、防压,长度不宜超过12.5米。因建筑幕墙复合板较重,码放高度应在2米之内。根据实际需求东方诚为您提供安全可靠地运输方案。

Transport Service:OHC sandwich panels can be transported may by truck,train,ship etc, it shall be noted waterproof,avoid press,length not exceed 12.5m.considering weight, stack the plates height not exceed 2m



排版方案:根据建筑幕墙复合板的固定模数排版,结合主导风向,由下向上依次排列东方诚可提供专业科学的排版方案和配件。

Plates Layout Scheme:.OHC will supply the professional layout scheme and accessory.



吊装方案:本品每单包重量最大4.4吨,吊装带选择不得低于5吨。吊装时要注意保护建筑幕墙复合板的边缘插口处,用专用包角保护。

Loading Scheme:Maximum weight is 4.4 tons for each package of sandwich panels, loading belt can load more than 5 tons,pay attention to special protection.



安装方案:选择有安装资质的专业安装单位,严格按照施工方案施工,东方诚将提供专业化安装服务。

Installation Scheme:select the install company with install qualification,according construction scheme strictly.



保养方案:本品等同于一般的金属幕墙板,使用注意防锈,不要用重物、利刃等物品撞击板面。

Maintenance Scheme:OHC plate maintain as the common metal curtain wall composite plate,note antirust.and avoid heavy goods impact .sharp goods scratch.

产品应用
Use of Products



生产基地
Production base



新型幕墙复合板生产线

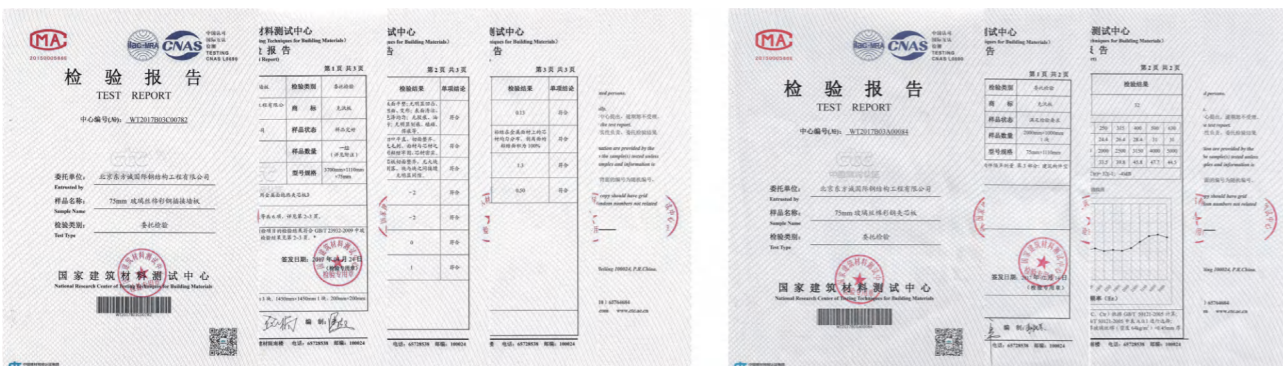
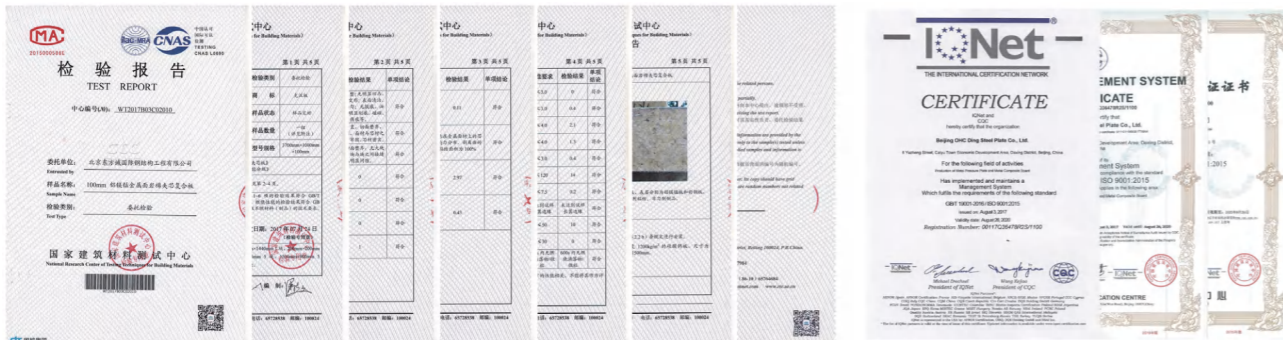
复合板压型机



聚氨酯冷却系统

C型钢设备

荣誉资质 Honors&Qualifications



企业文化 Company Culture

诚信基业标志释义:

源于产品名称--‘工’字钢。‘工字钢’是钢铁建筑材料中的重要产品之一，具有突出的产品代表性。反应产品特征--C/H型钢。C/H型钢是东方诚钢构的主要产品之一，以产品特征反映东方诚钢构致力于创新，研发先进的技术工艺，把高端的技术工艺水准和高品质的产品与服务奉献给客户和社会。展现生产程序--形象体现了H型钢生产过程中组立、龙门焊、校正、吊装四个工段。造型寓意丰富--东方诚钢构标志造型像‘双喜’和‘昌’字，寓意喜庆、幸福、快乐、昌盛、发达、发展等涵义，表达了东方诚钢构对自身、员工、客户、股东、社会等方面的美好愿望。



Honesty - Basis for Company

The logo shape looks like "O" "H" "C"-shaped steel. It reflects OHC commitment to innovation, research and development of advanced technology, and dedicates high-end technology and high-quality products and services to customers and customers. society. It shows production process-the image reflects the four sections of assembly, gantry welding, calibration, and hoisting during the production of H-beams. The shape is rich in meaning-- OHC logo means festive, happiness, joy, prosperity, development. It expresses OHC commitment to itself, employees, customers, shareholders Good wishes in society, society, etc.

