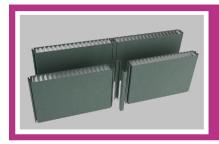


PIO-SHIP DESIGN & SYSTEM INTEGRATE PTE LTD

PIO-SHIP

TECHNOLOGIES FROM CHINA'S LARGEST UNIVERSITY OF NAVAL ARCHITECTURE AND OCEAN ENGINEERING



MARINE LIGHTWEIGHT OUTFITTING PRODUCTS



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板材介绍 PANEL INTRODUCTION



应用领域

AREAS OF APPLICATION 轻量化板材逐渐被应用于各个领域。尤其船舶行业,它们能够减轻船体重量,简化结构,提高效益。船体内部设备的轻型化在国外日益受到重视,内壁板、天花板、门板等轻量化板材已取得明显效果。这一新技术改变了制件的技术性能,延长使用寿命,减少了维护检修工作。同时,给人以舒适感,提高了船室的美观程度。

The lightweight panel has been applied in various fields. Especially in shipbuilding industry, it reduces the weight of the hull, simplifys the structure, improves efficiency. Light weight of the equipment within the hull in foreign countries has been paid more and more attention, wall panels, ceiling, doors and other lightweight panel has achieved obvious effect. This new technology has changed the technical properties of the parts, prolong service life, reduce maintenance and repair work. At the same time, it gives people comfort, improves the aesthetic level of the ship chamber.

轻量化内装板材类型

LIGHTWEIGHT INTERIOR PANEL TYPE









通用板材 GENERAL PANEL

公司研发生产的系列化铝蜂窝复合板是绿色环保节能材料,具有比重轻、强度高、刚度大、结构稳定等特点已被广泛应用于船舶舱室环境工程内装。其相互连接的铝蜂窝芯就如无数个工字钢、芯层分布固定在整个板面内,是板块更加稳定,其抗风压性能大大超于铝塑板和铝单板,并具有不易变形、平整度好的特点。

铝蜂窝复合板材表面光洁、无皱、无泡、无带状突起凹凸不平、粘接平整牢 固、无开裂脱落现象、各板材均采用模块化结构工艺处理。

具有安装方便、快捷、装饰性强等特点。铝蜂窝复合板底面板可根据不同的要求选用不同的材料,如铝板、不锈钢板、镀锌板。可根据现场设计的尺寸,在工厂加工,经过数控中心切割、开槽折边等加工成形,质量可靠,安装方便、快捷。

The R&D of series of lightweight aluminum honeycomb panel is kind of environment friendly material. It has been widely used in Ship Interior Design and Outfitting on account of light specific gravity, high strength, high rigidity, stable structure. The interconnected aluminum honeycom core is just like countless fixed beams, which is unformly distributed throughout the board faces. That makes the panel more stable, and the wind resistance greater than aluminum and aluminum veneer. And is not easy to deforme.

Panelsurface smooth, non-wrinkling, no bubble, no rough, firm adhesion, no cracking and shedding phenomenon, and each panel is processed by the modular structure technology.

The installation of aluminum honeycomb panel is convenient, quick and decotative. The bottom panel can be selected according to different requirements, such as aluminum, stainless steel, galvanized sheet. Aluminum honeycomb panel can be machined into different size by cutting, grooving, folding, and the quality is reliable.

A型铝蜂窝复合板材/TYPE A ALUMINUM HONEYCOMB COMPOSITE PANEL



型号	DESCRIPTION	LHS-25
厚度	THICKNESS	25mm
防火等级	FIRE CLASS	С
R	DIMENSION	标准宽度(Standard width): 550mm、最大长度(Maximum length): 2400mm
17.7		(可根据客户需求定制)(Customized according to customer needs)
重量	WEIGHT	6.5kg/m²
降噪等级	SOUND REDUCTION	29.6dB
型芯材料	CORE MATERIAL	0.05mm*6mm*23.4mm铝蜂窝(Aluminum honeycomb)
表面处理	SURFACE FINISH	0.8mm铝板(Aluminium sheet)、面贴(Externally bonded)PVC
公差	TOLERANCE	宽(W)±0.5mm、高(H)±3mm、厚度(T)±0.5mm

A型铝蜂窝复合板材 /TYPE A ALUMINUM HONEYCOMB COMPOSITE PANEL



型号	DESCRIPTION	LHS-50
厚度	THICKNESS	50mm
防火等级	FIRE CLASS	С
R	DIMENSION	标准宽度(Standard width): 550mm、最大长度(Maximum length): 2400mm
17.7		(可根据客户需求定制)(Customized according to customer needs)
重量	WEIGHT	7.8kg/m²
降噪等级	SOUND REDUCTION	29.6dB
型芯材料	CORE MATERIAL	0.05mm*6mm*48.4mm铝蜂窝(Aluminum honeycomb)
表面处理	SURFACE FINISH	0.8mm铝板(Aluminium sheet)、面贴(Externally bonded)PVC
公差	TOLERANCE	宽(W)±0.5mm、高(H)±3mm、厚度(T)±0.5mm

C型铝蜂窝复合板材 / TYPE C ALUMINUM HONEYCOMB COMPOSITE PANEL



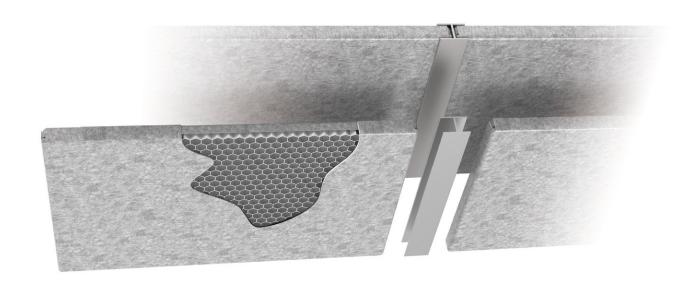
型号	DESCRIPTION	LHS-25
厚度	THICKNESS	25mm
防火等级	FIRE CLASS	С
D.+	DIMENSION	标准宽度(Standard width): 550mm、最大长度(Maximum length): 2400mm
17.71		(可根据客户需求定制)(Customized according to customer needs)
重量	WEIGHT	6.5kg/m²
降噪等级	SOUND REDUCTION	29.6dB
型芯材料	CORE MATERIAL	0.05mm*6mm*23.4mm铝蜂窝(Aluminum honeycomb)
表面处理	SURFACE FINISH	0.8mm铝板(Aluminium sheet)、面贴(Externally bonded)PVC
公差	TOLERANCE	宽(W)±0.5mm、高(H)±3mm、厚度(T)±0.5mm

C型铝蜂窝复合板材 / TYPE C ALUMINUM HONEYCOMB COMPOSITE PANEL



型号	DESCRIPTION	LHS-50
厚度	THICKNESS	50mm
防火等级	FIRE CLASS	С
D.+	DIMENSION	标准宽度(Standard width):550mm、最大长度(Maximum length):2400mm
17.71		(可根据客户需求定制)(Customized according to customer needs)
重量	WEIGHT	7.8kg/m²
降噪等级	SOUND REDUCTION	29.6dB
型芯材料	CORE MATERIAL	0.05mm*6mm*48.4mm铝蜂窝(Aluminum honeycomb)
表面处理	SURFACE FINISH	0.8mm铝板(Aluminium sheet)、面贴(Externally bonded)PVC
公差	TOLERANCE	宽(W)±0.5mm、高(H)±3mm、厚度(T)±0.5mm

不锈钢铝蜂窝复合板/STAINLESS STEEL ALUMINUM HONEYCOMB COMPOSITE PANEL



型号	DESCRIPTION	HZFL-05
厚度	THICKNESS	10mm
防火等级	FIRE CLASS	C
모크	DIMENSION	标准宽度(Standard width): 550mm、最大长度(Maximum length): 2400mm
17.71		(可根据客户需求定制)(Customized according to customer needs)
重量	WEIGHT	12kg/m²
降噪等级	SOUND REDUCTION	29.6dB
型芯材料	CORE MATERIAL	0.05mm*6mm*8.0mm铝蜂窝(Aluminum honeycomb)
表面处理	SURFACE FINISH	不锈钢板(Stainless steel)
公差	TOLERANCE	宽(W)±0.5mm、高(H)±3mm、厚度(T)±0.5mm

防火板泡沫复合板/FIRE-PROOF FOAM COMPOSITE PANEL



型号	DESCRIPTION	HZFL-06
厚度	THICKNESS	20mm (10-50mm)
防火等级	FIRE CLASS	С
で兄	DIMENSION	(可根据客户需求定制)(Customized according to customer needs)
重量	WEIGHT	5.69kg/m²
降噪等级	SOUND REDUCTION	
型芯材料	CORE MATERIAL	PVC泡沫 (PVC foam)
表面处理	SURFACE FINISH	防火板(Proof panel)
公差	TOLERANCE	宽(W)±0.5mm、高(H)±3mm、厚度(T)±0.5mm



▼ 轻质陶瓷化铝蜂窝板材

LIGHTWEIGHT CERAMIC ALUMINUM HONEYCOMB PANEL

适用范围:

轻质陶瓷化铝蜂窝板材兼有铝蜂窝板和陶瓷材料的 双重性能,在原有铝蜂窝板使用领域的基础上扩大 了应用范围、

- 体育馆、剧院、机场、车站等大型公共建筑装饰
- 大型展馆、展架、办公、娱乐场所隔断装饰
- 豪华游艇、舰船内部装饰板
- 高速、低噪音电梯内饰板

SCOPE OF APPLICATION:

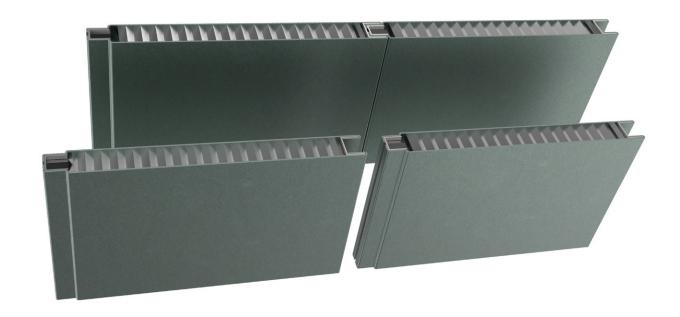
The lightweight ceramic aluminum honeycomb panel has the dual properties of aluminum honeycomb panel and ceramic material, and the application range is enlarged on the basis of the original aluminum honeycomb plate.

- Large public building decoration, such as gymnasium, theater, airport, station, etc.
- Large exhibition hall, exhibition, office, partition decoration of entertainment venue.
- · Luxury yacht, ship interior decorating panel.
- High speed, low noise lift interior decorating panel.

CHARACTERISTIC, 性能特点

- 绿色环保型材料表面处理技术——特有的微弧氧化膜层
- 更好的耐磨、耐腐蚀、耐高温冲击和电绝缘等特性
- 轻质高强、平整度好、表面色彩多样可选择
- 板材表面平整,粘结牢固,各板材均采用模块化结构工艺处理
- Surface treatment technology of green environmental protection material—special micro-arc oxidation coating
- Better wear resistance, corrosion resistance, high temperature resistance and electrical insulation, etc.
- Lightweight, high strength, good flatness, surface color diversity
- The panel surface is smooth and firm, and each panel is processed by the modular structure technology.

A型轻质陶瓷化铝蜂窝板材/TYPE A LIGHTWEIGHT CERAMIC ALUMINUM HONEYCOMB PANEL



문	DESCRIPTION	HZFL-03
厚度	THICKNESS	25mm
防火等级	FIRE CLASS	С
日寸	DIMENSION	标准宽度(Standard width):550mm、最大长度(Maximum length):2400mm
17.7		(可根据客户需求定制)(Customized according to customer needs)
重量	WEIGHT	6.8kg/m²
降噪等级	SOUND REDUCTION	29.7dB
型芯材料	CORE MATERIAL	0.05mm*6mm*23.4mm铝蜂窝(Aluminium honeycomb)
表面处理	SURFACE FINISH	表面微弧氧化处理(Surface micro-arc oxidation treatment)
公差	TOLERANCE	宽(W)±0.5mm、高(H)±3mm、厚度(T)±0.5mm

A型轻质陶瓷化铝蜂窝板材/TYPE A LIGHTWEIGHT CERAMIC ALUMINUM HONEYCOMB PANEL



코 号	DESCRIPTION	HZFL-03
厚度	THICKNESS	50mm
防火等级	FIRE CLASS	С
尺寸	DIMENSION	标准宽度(Standard width): 550mm、最大长度(Maximum length): 2400mm (可根据客户需求定制)(Customized according to customer needs)
重量	WEIGHT	8.1 kg/m²
降噪等级	SOUND REDUCTION	29.9dB
型芯材料	CORE MATERIAL	0.05mm*6mm*48.4mm铝蜂窝(Aluminium honeycomb)
表面处理	SURFACE FINISH	表面微弧氧化处理(Surface micro-arc oxidation treatment)
公差	TOLERANCE	宽(W)±0.5mm、高(H)±3mm、厚度(T)±0.5mm

C型轻质陶瓷化铝蜂窝复合板材/TYPE C LIGHTWEIGHT CERAMIC ALUMINUM HONEYCOMB PLATEL



型号	DESCRIPTION	HZFL-03
厚度	THICKNESS	25mm
防火等级	FIRE CLASS	С
RJ	DIMENSION	标准宽度(Standard width): 550mm、最大长度(Maximum length): 2400mm (可根据客户需求定制)(Customized according to customer needs)
重量	WEIGHT	6.8kg/m²
降噪等级	SOUND REDUCTION	29.7dB
型芯材料	CORE MATERIAL	0.05mm*6mm*23.4mm铝蜂窝(Aluminium honeycomb)
表面处理	SURFACE FINISH	表面微弧氧化处理(Surface micro-arc oxidation treatment)
公差	TOLERANCE	宽(W)±0.5mm、高(H)±3mm、厚度(T)±0.5mm

C型轻质陶瓷化铝蜂窝板材/TYPE C LIGHTWEIGHT CERAMIC ALUMINUM HONEYCOMB PANEL



型号	DESCRIPTION	HZFL-03
厚度	THICKNESS	50mm
防火等级	FIRE CLASS	С
	DIMENSION	标准宽度(Standard width): 550mm、最大长度(Maximum length): 2400mm
KJ		(可根据客户需求定制)(Customized according to customer needs)
重量	WEIGHT	8.1 kg/m²
降噪等级	SOUND REDUCTION	29.9dB
型芯材料	CORE MATERIAL	0.05mm*6mm*48.4mm铝蜂窝(Aluminium honeycomb)
表面处理	SURFACE FINISH	表面微弧氧化处理(Surface micro-arc oxidation treatment)
公差	TOLERANCE	宽(W)±0.5mm、高(H)±3mm、厚度(T)±0.5mm



色彩聚酯表面毡板材 COLOR POLYESTER FINISH PANEL

适用范围:

特别适用于舰船上餐桌、背景墙、空调两侧装饰板、书柜、衣柜、会议桌、餐厅书报架、洗漱用品柜、茶几、卫生洁具、拖把池、洗手池。

性能特点:

- 采用改性聚酯纤维,经特殊的渗透工艺处理,表面光洁美观, 色彩丰富清晰;
- 可加工各种尺寸、曲面及异形、阻燃性好、安装方便;
- 更高的防腐蚀和耐候性能、耐老化。

SCOPE OF APPLICATION:

Applicable to the dining-table, background wall, air-conditioning decoration board, bookcase, wardrobe, meeting-table, restaurant books and newspapers racks, toiletries cabinet, coffee table, sanitary ware, mop pool and hand washing pool on the ship.

CHARACTERISTIC:

- Use improved polyester fiber,through special penetration process,look beautiful,rich colors,smooth surface.
- Used for processing various sizes, surfaces and shapes, good flame resistance and convenient installation.
- Higher corrosion resistance, weather resistance, aging resistance.

色彩复合单板/color composite single platel

HZF-S



型号	DESCRIPTION	HZF-S
厚度	THICKNESS	5mm (3-50mm)
防火等级	FIRE CLASS	С
で兄	DIMENSION	(可根据客户需求定制)(Customized according to customer needs)
重量	WEIGHT	8.3kg/m²
降噪等级	SOUND REDUCTION	
型芯材料	CORE MATERIAL	
表面处理	SURFACE FINISH	色彩聚酯表面毡板材(Color polyester Finish panel)
公差	TOLERANCE	宽(W)±0.5mm、高(H)±3mm、厚度(T)±0.5mm

PVC泡沫夹芯复合板/pvc foam sandwich composite panel

HZF-S-01



型등	DESCRIPTION	HZF-S-01
厚度	THICKNESS	10mm (5mm-50mm)
防火等级	FIRE CLASS	С
セス	DIMENSION	(可根据客户需求定制)(Customized according to customer needs)
重量	WEIGHT	10.2kg/m²
降噪等级	SOUND REDUCTION	
型芯材料	CORE MATERIAL	PVC泡沫 (PVC foam)
表面处理	SURFACE FINISH	色彩聚酯表面毡板材(Color polyester Finish panel)
公差	TOLERANCE	宽(W)±0.5mm、高(H)±3mm、厚度(T)±0.5mm

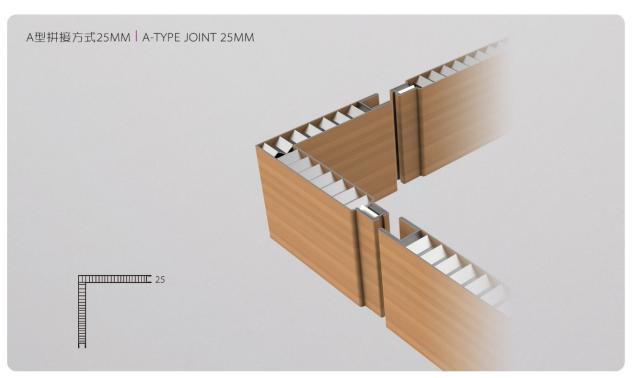
色彩铝蜂窝夹芯复合板/color ALUMINIUM HONEYCOMB SANDWICH COMPOSITE PANEL

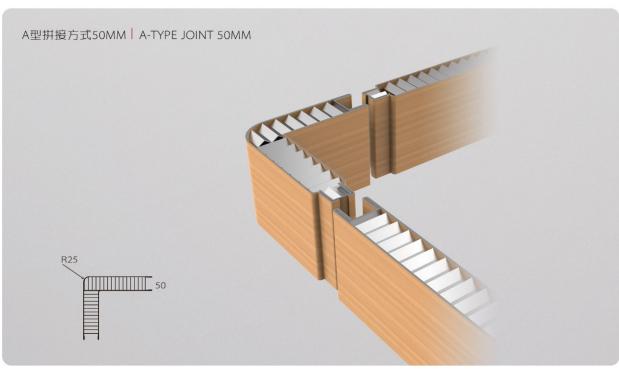
HZF-S-02



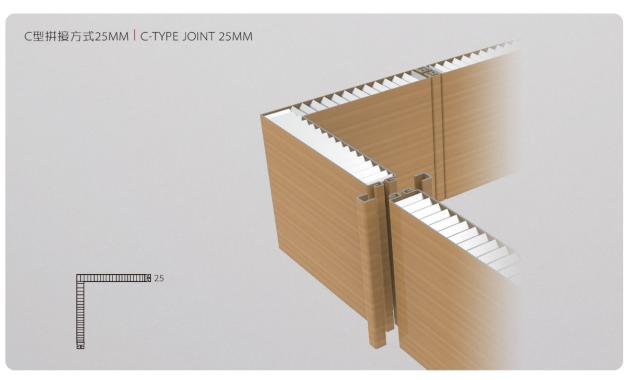
型号	DESCRIPTION	HZF-S			
厚度	THICKNESS	25mm (10-50mm)			
防火等级	FIRE CLASS	С			
尺寸	DIMENSION	(可根据客户需求定制)(Customize according to customer needs)			
重量	WEIGHT	8.7kg/m²			
降噪等级	SOUND REDUCTION	29.6dB			
型芯材料	CORE MATERIAL	铝蜂窝(Aluminium honeycomb)			
表面处理	SURFACE FINISH	色彩聚酯表面毡板材(Color polyester Finish panel)			
公差	TOLERANCE	宽 (W) ±0.5mm、高 (H) ±3mm、厚度 (T) ±0.5mm			

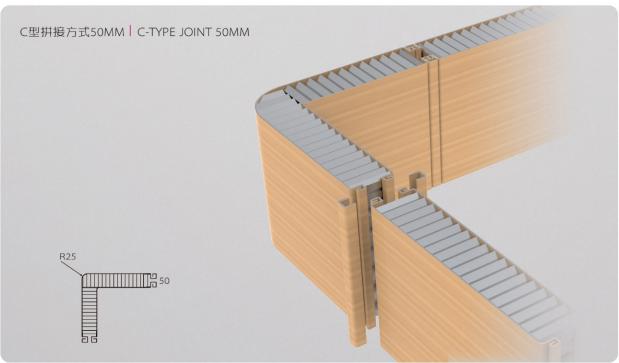
L类外转角/L-TYPE OUTCORNER



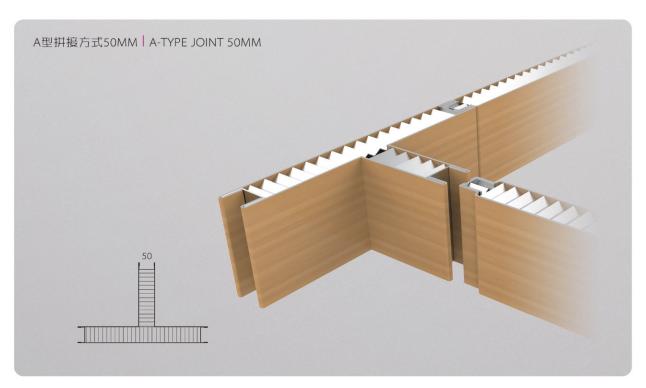


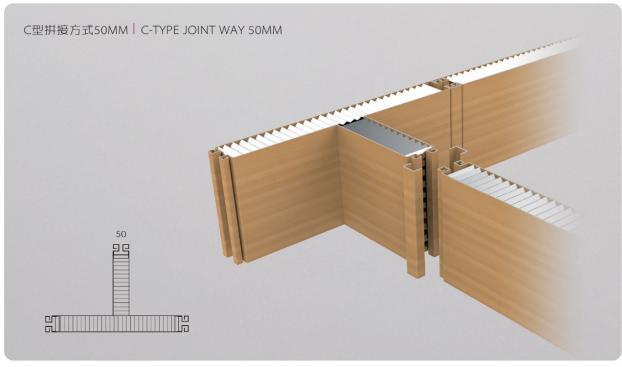
L类外转角/L-TYPE OUTCORNER





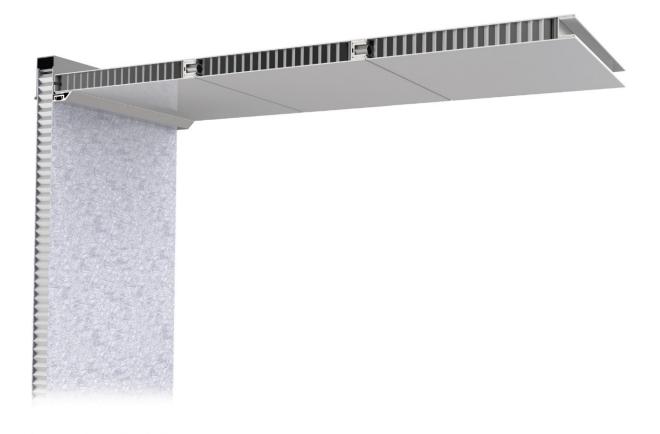
T类外转角/T-TYPE OUTCORNER





A型天花板/Type A CEILING PANEL

HZFL-T-07



 포号	DESCRIPTION	HZFL-T-07		
厚度	THICKNESS	25mm		
防火等级	FIRE CLASS	С		
E 4	DIMENSION	标准宽度(Standard width): 550mm、最大长度(Maximum length): 2400mm		
רייו		(可根据客户需求定制) (Customized according to customer needs)		
密度	WEIGHT	6.5kg/m²		
降噪等级	SOUND REDUCTION	29.6dB		
型芯材料	CORE MATERIAL	0.05mm*6mm*23.4mm铝蜂窝(Aluminum honeycomb)		
表面处理	SURFACE FINISH	0.8mm铝板(Aluminium sheet)、面贴 (Externally bonded) PVC		
公差	TOLERANCE	宽(W)±0.5mm、高(H)±3mm、厚度(T)±0.5mm		

微孔天花扣板/MICRO PERFORATED TYPE CEILING PANEL

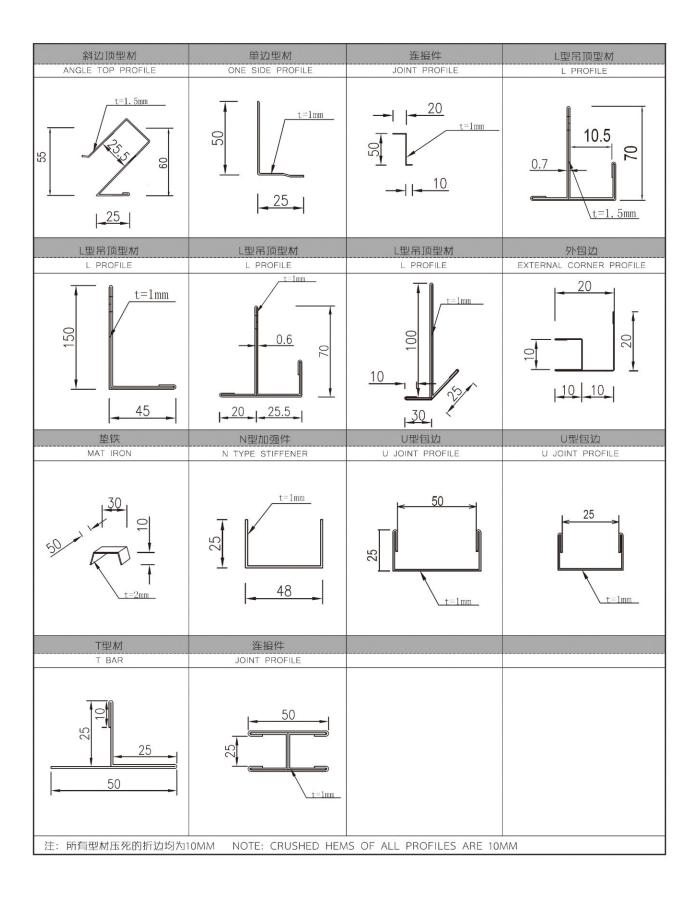
HZFL-T-08

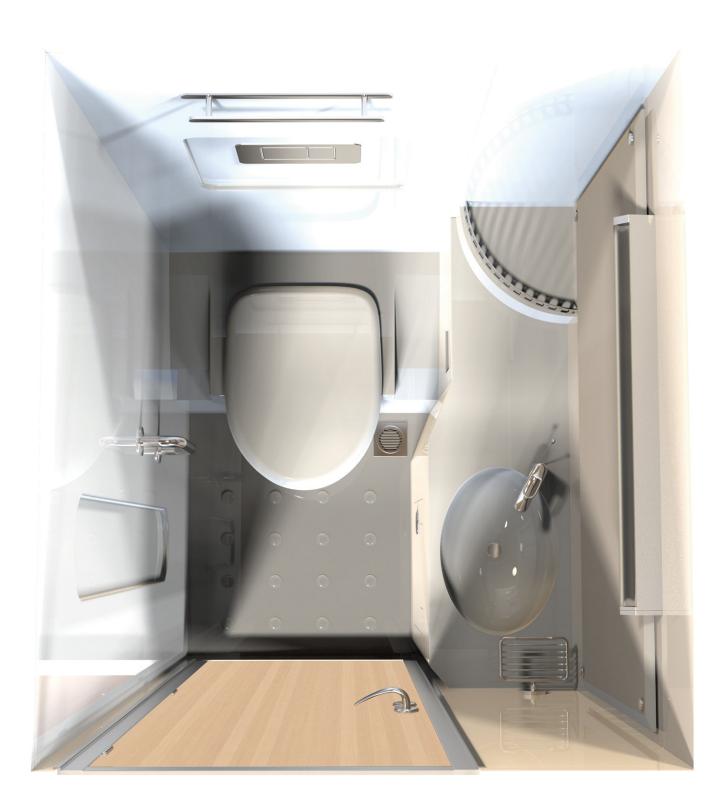


型 물	DESCRIPTION	HZFL-T-08	
厚度	THICKNESS	1.5mm	
防火等级	FIRE CLASS	С	
尺寸	DIMENSION	标准尺寸(Normal dimension): 600mm×600mm	
密度	WEIGHT	4.02kg/m²	
降噪等级	SOUND REDUCTION	30.1dB	
型芯材料	CORE MATERIAL	(可加岩棉)(Additive Rock wool)	
表面处理	SURFACE FINISH	面贴(Externally bonded) PVC	
公差	TOLERANCE	宽(W)±0.5mm、高(H)±3mm、厚度(T)±0.5mm	

型材列表。LIST OF PROFILE

单边顶型材	顶型 材	斜边顶型材	斜角吊顶型材
ONE SIDE TOP PROFILE	TOP PROFILE	ANGLE TOP PROFILE	HANGING PROFILE
\$\frac{1}{25} \frac{25}{25}	25 50 25	25 25	10 44. 30 60
底型材	底型材	底型材	灯带吊顶型材
BOTTOM PROFILE	BOTTOM PROFILE	BOTTOM PROFILE	HANGING PROFILE WITH LAMP
25 S t=1. 2mm	50 1=1, 2mm	t=1mm	35 27 25
L型包边	U型包边	N型加强件	垫铁
L PACKAGE EDGE	U PACKAGE EDGE	N TYPE STIFFENER	MAT IRON
a 425 t=lmm	25 t=1mm	t=1mm -23 -	50 07 07 1 = 2mm
斜角吊顶型材	顶型 材	T型吊顶型材	U型包边
HANGING PROFILE	TOP PROFILE	T CONDOLE TOP MATERIAL	U JOINT PROFILE
200 0.7 0.7 10 注: 所有型材压死的折边均为1	25 <u>25</u>	t=1.5mm 40 40 S OF ALL PROFILES ARE 10M	10 10







轻量化卫生单元系统 LIGHTWEIGHT BATHROOM UNIT SYSTEM

目前市场采用的卫生单元产品普遍具有重量重,外型尺寸大,内部结构不紧凑,内饰不美观等问题,为此我公司进行了全新的研发和改进型设计。针对一些特种载具、特种船舶、特殊舱室空间结构等要求的内装项目,使用新型轻量化卫生单元取代以往的卫生单元产品。

性能特点:

- 个性化整体设计,模块化制作
- 拼装式结构, 安装便捷
- 装饰效果极佳, 环保节能
- ●保温隔热,轻质高强,整体单元总重量≯280KG
- 标准化工艺手段,模具成型

应用领域:

舰艇、高铁、飞机、房车等领域军民两用

The bathroom unit products used in the marketare generally large weight, large size, incompact internal structure and ugly interior decoration. Therefore Our company has carried out a new research and improved design for the bathroom unit. For some special vehicles, special vessel, special cabin space and structure requirements of outfitting project, new lightweight bathroom unit products are applied to replace the previous bathroom unit.

Characteristics:

- Personalized integrated design, modular production.
- Assembled structure, convenient installation.
- Excellent decorative effect, environmental protection and energy saving.
- Thermal insulation, high strength and light weight, unit total weight ≯280KG.
- Standardized process, mould forming.

Areas of application:

Ships, high-speed rail, airplane, camper, etc dual-use











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