

THE LEADING

FIRE PROTECTION SOLUTION

EXPERT IN VIETNAM

Comprehensive Fire Protection for all Vietnamese Worksites

KH Shield Joint Stock Company is a dynamic and innovative enterprise specializing in the production of fireproof materials and solutions, and has achieved a leading position in the Vietnamese market.

With our establishment in 2018, we take pride in delivering superior, eco-friendly, and visually appealing fireproof and insulation solutions for a wide range of projects in Vietnam, including high-rise condominiums, commercial centers, factories, and preengineered steel buildings. Our unwavering commitment to promoting a safer and enhanced quality of life drives us to continuously enhance product quality and expand our product line, all with the aim of providing maximum customer satisfaction. As a testament to our steadfast reliability in the field of fire prevention and firefighting, KH Shield is trusted by numerous large domestic and international contractors.







OUR MISSION

As the industrial sector continues to expand in line with the country's trend of industrialization and modernization, the KH Shield brand, proudly "Made in Vietnam", offers top-notch fire-resistant products that conform to the latest fire safety standards, thereby proactively catering to the domestic market's needs.



KH Shield's products have achieved nationwide presence due to our exceptional applicability on an industrial scale, along with the unwavering commitment of our team of experts and engineers.



REASONS FOR CHOOSE KH SHIELD PANEL

- Provides up to 4 hours of fire resistance and up to 6 hours of non-flammability
- Formaldehyde-free, ensuring safe and healthy indoor air quality
- Prevents fire spread, making it an excellent choice for fire-resistant construction
- Opes not catch fire, providing added protection against potential fire hazards
- ✓ Meets the lowest smoke generation standards according to ISO 5659.
- ✓ Meets the lowest smoke toxicity DT1 standards according to ISO 5660
- Certified as a non-combustible material in accordance with ISO 1182 standards



BUSINESSES HAVE PASSED THE TEST

Typical enterprise	Product Application KH Shield	Standards achieved	Testing agency
AMAVI CONSTRUCTION JSC	1-leaf wooden door	El 70, 90, 120	IBST
AMAVICONSTRUCTION (SC	2-leaf wooden door	EI 70	IBST
LIEN MINH TRADE CO., LTD	2-leaf wooden door	EI 70	IBST
	1-leaf wooden door	EI 70	IBST
BOHO DÉCOR . CO., LTD	1-leaf wooden door	EI 120	IBST
	2-leaf wooden door	EI 120	IBST
TRUNG NAM ECONOMIC JOINT STOCK COMPANY	1-leaf wooden door	EI 45	IBST
TIME DOORS JSC	1-leaf wooden door	El 70	IBST
LAM SON TUNG CO., LTD	2-leaf wooden door	El 70	IBST
	Air duct type A	EI 60	IBST
CT CP VITDUCT	Air duct type B	EI 120	IBST
	Fire prevention valve	EI 90	IBST
WPH CO., LTD	Air duct type A	EI 45	IBST
THANG TIEN TECHNICAL JSC	Air duct type B	EI 60	IBST
DAE SUN VINA CO., LTD	Air duct type B	EI 45	IBST
THAI NGUYEN MANUFACTURING & TRADING CO., LTD	Air duct type B	EI 45	IBST
HLB PACIFIC VN CO., LTD	Air duct type B	EI 45	IBST
VANTIC TRADING & SERVICES CO	Fire prevention valve	EI 90	IBST
TMD . MECHANICAL ELECTRICAL JOINT STOCK COMPANY	Fireproof elevator door	EI 90	IBST
	Steel rolling door	EI 90	IBST
CT CP ALUMAX VN	2-leaf steel door	EI 60	IBST
	1-leaf steel door	EI 70	IBST
VIETNAM NEW TECHNOLOGY CONSTRUCTION INVESTMENT JSC.	2-leaf steel door	EI 71	IBST
R.E.E M&E JSC	Air duct type B	El 45, 60	IBST
GIA NGUYEN MECHANICAL ELECTRICAL CO., LTD	Air duct type B	EI 30,60,120	IBST
SUMODO CO., LTD	Air duct type B	EI 60	IBST
SONG TA JOINT STOCK COMPANY	Fire stop valve	EI 60	IBST
EVERGREEN TRADING SERVICES COMPANY LIMITED	Fire stop valve	EI 90	IBST

TECHNICAL SPECIFICATIONS

The exclusive FireShieldPRO® technology has created superior fire-resistant and insulation panels using agricultural waste, fiberglass mesh, and adhesive materials. As a result, both the fire-resistant and insulation KH Shield panels inherit advantages such as environmental friendliness, infinite recyclability, resistance to environmental changes, and superior fire resistance.

No.	B	To a model of	11-16			Panel	thickness		
Item	Property	Test method	Unit	3mm	6mm	8mm	10mm	12mm	20mm
	Fire test Flammability	ISO 11925-2:2010		A1	A1	A1	A1	A1	A1
	Flexural strength	ASTM C 1185-08 (2016)	Мра	10.6	17.5		11		
	Formaldehyde content in the product	JIS A 1460:2015	mg/l	0.4	0.36	0.4	0.4	0.4	0.4
	Lead, Cadimi, Mercury, arsenic content	IEC 62321-5:2013	mg/Kg	<5,0	<5,0	<5,0	<5,0	<5,0	<5,0
	Bactericidal: E. Coli, St. Aureus, Ps. Aerug	ISO 22196:2011	%	92-98	92-98	92-98	92-98	92-98	92-98
FIRE RESIST PANEL	Moisture	TCVN 10788:2015	%	12	12	12	12	12	12
FIRESHIELDPRO KHS.FA	Moisture expansion	ASTM C 1185-08 (2016)	%	0	0	0	0	0	0
	Weight/m2		kg	3	6	8.5	10.5	12.6	
	Thermal conductivity T=200°C						0.13		
	T=400°C	ASTM C177	W/mK				0.169		
	T=600°C	7,511,7 €177	VV/IIIK				0.175		
# \$16183 21884	T=800°C				0.327		0.212	0.453	

100000		20000000000000		PANEL THICKNESS							
ITEM	PROPERTY	TEST METHOD	UNIT	14mm	16mm	18mm	20mm	24mm	26mm	30mm	32mm
	Fire test Flammability	ISO 11925-2:2010		A1	A1	A1	A1	A1	A1	A1	A1
	Flexural strength	ASTM C 1185-08 (2016)	Мра				5	4.9			
	Formaldehyde content in the product	IEC 62321-5:2013	mg/l	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
	Lead, Cadimi, Mercury, arsenic content	ISO 22196:2011	mg/Kg	<5,0	<5,0	<5,0	<5,0	<5,0	<5,0	<5,0	<5,0
	Bactericidal: E. Coli, St. Aureus, Ps. Aerug	TCVN 10788:2015	%	92-98	92-98	92-98	92-98	92-98	92-98	92-98	92-98
RESIST	Moisture	TCVN 10788:2015	%	12	12	12	12	12	12	12	12
PANEL KHS.HF.M	Moisture expansion	ASTM C 1185-08 (2016)	%				0.01	0.01			
KIIS.III .M	Weight/m2		kg	7.6	8.7	9.8	10.8	13	14	16.5	17.5
	Thermal conductivity T=200°C							0.122			
	T=400°C	ASTM C177	W/mK					0.161			
' hamildainna	T=600°C							0.168			

			11-24	Panel thickness		
Item	Property	Test method	Unit	20mm	24mm	32mm
	FIRE TEST FLAMMABILITY	ISO 11925-2: 2010		A1	A1	A1
	Flexural strength	ASTM C 1185-08 (2016)	Мра	2.6	2.7	2.4
	Toxic materials	JIS A 1460: 2015	mg/l	1.23	0.35	0.35
HEAT RESIST	Formaldehyde content in the product	IEC 62321-5:2013	mg/Kg	<5,0	<5,0	<5,0
IRESHIELDPRO .HS.HF.W	Lead, Cadimi, Mercury, arsenic content	ISO 22196:2011	%	92-98	92-98	92-98
	Bactericidal: E. Coli, St. Aureus, Ps. Aerug	TCVN 10788:2015	%	12	12	12
	Moisture expansion	ASTM C 1185-08 (2016)	%	0	0.01	0
126184 212013	Weight/m2		kg	10	12	13

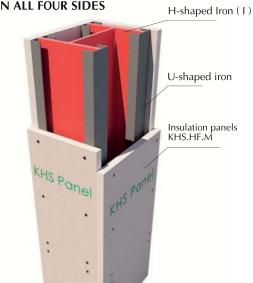
Item	Property	Test method	Unit	Panel thickness 48mm
	Fire test Flammability	ISO 11925-2 ; 2020		A1
	Flexural strength	ASTM C 1185-08 (2016)	Мра	0,6
	Formaldehyde content in the product	JIS A 1460:2015	mg/l	not detected (LOD:0,15 mg/L)
FireshieldPro	Acid-soluble chloride content	ASTM C 1152-20	%	0,04
HEAT RESIST PANEL	Lead, Cadimi, Mercury, arsenic content	IEC 62321-5:2013	mg/Kg	not detected
KHS.HF.MPS	Bactericidal: Es Coli, St Aureus, Ps Aerug	TCVN 10788:2015	%	not detected
	Moisture expansion	ASTM C 1185-08 (2016)	%	0,01
	Weight/m2		kg	15kg/m2
g 936184 210052	Density		m3	320 -350kg/m3

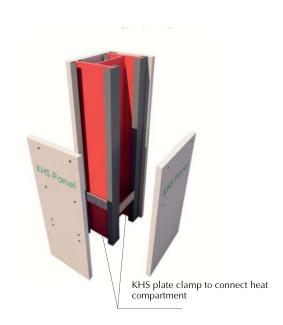
The mentioned standards are:
ISO International Standard
ASTM US Standard
JIS Japanese Standard
TCVN National Standard

- (*) The harmful component is calculated as the amount of Formaldehyde in the product.
- (**) Thermal conductivity is a characteristic quantity for the heat conduction ability of materials. It describes the amount of heat that the material can conduct in a unit of time. The lower the thermal conductivity coefficient, the better the insulation ability of the material.

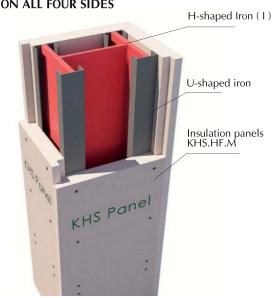
COLUMN STRUCTURAL PROTECTION WRAPPING

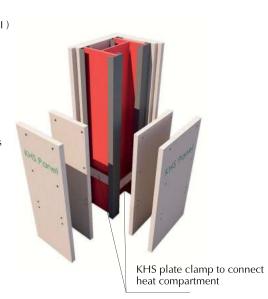
COLUMN COVERING WITH ONE LAYER ON ALL FOUR SIDES





COLUMN COVERING WITH TWO LAYERS ON ALL FOUR SIDES

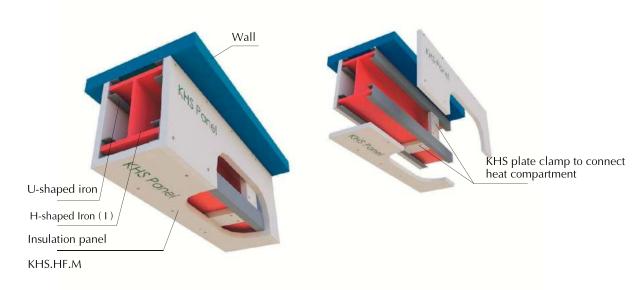




Thermal		KHS.HF.M IN	SULATION PAN	IEL	
insulation time (R)		Se	ction factor H	o/A	
	14mm	16mm	18mm	20mm	22mm
R30	55	75	200	260	
R60			100	160	190
R90			50	90	110
R120				65	75

BEAM STRUCTURE PROTECTION WRAPPING

3-sided single-layer beam covering

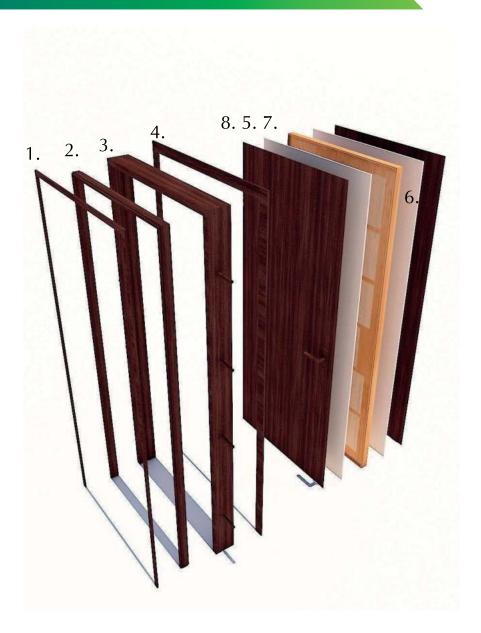


3-sided double-layer beam covering



Thermal		KHS.HF.A	M INSULATI	ON BOARE)	
insulation	Section factor Hp/A					
time (R)	24mm	26mm	28mm	30mm	32mm	
R30						
R60	240	260	260	260	260	
R90	125	140	160	185	215	
R120	85	95	100	110	120	

SINGLE-LEAF WOODEN DOOR

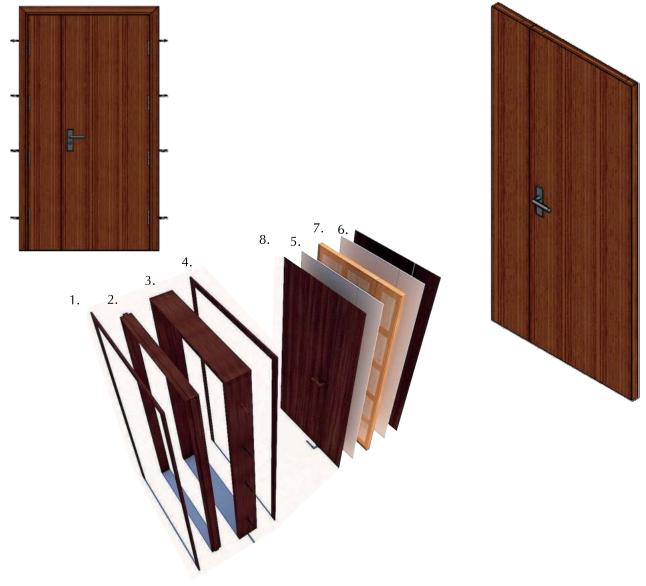




(SFM: Surface finishing material) (GC16: Hardwood 16mm)

NO.	El 45 minute	El 60 minute	El 90 minute	El 120 minute
1	KHS.FA6 + SFM	KHS.FA6 + SFM	KHS.FA10 + SFM	KHS.FA12 + SFM
2	KHS.FA10 + SFM	KHS.FA10 + SFM	KHS.FA10 + SFM	KHS.FA12 + SFM
3	KHS.FA10 + GC16 + SFM	KHS.FA10 + GC16 + SFM	KHS.FA10 + GC16 + SFM	KHS.FA12 + GC16 + SFM
4	KHS.FA6 + SFM	KHS.FA10 + SFM	KHS.FA10 + SFM	KHS.FA12 + SFM
5	KHS.FA6	KHS.FA10	KHS.FA10	KHS.FA12
6	KHS.HF.W20	KHS.HF.W24	KHS.HF.W24	KHS.HF.W32
7	Hard wood 20mm	Hard wood 24mm	Hard wood 24mm	Hard wood 24mm
8	Surface finishing material	Surface finishing material	Surface finishing material	Surface finishing material

DOUBLE-LEAF WOODEN DOOR



(SFM: Surface finishing material) (GC16: Hardwood 16mm)

NO.	El 45 minute	El 60 minute	El 90 minute	El 120 minute
1	KHS.FA6 + SFM	KHS.FA6 + SFM	KHS.FA10 + SFM	KHS.FA12 + SFM
2	KHS.FA10 + SFM	KHS.FA10 + SFM	KHS.FA10 + SFM	KHS.FA12 + SFM
3	KHS.FA10 + GC16 + SFM	KHS.FA10 + GC16 + SFM	KHS.FA10 + GC16 + SFM	KHS.FA12 + GC16 + SFM
4	KHS.FA6 + SFM	KHS.FA10 + SFM	KHS.FA10 + SFM	KHS.FA12 + SFM
5	KHS.FA6	KHS.FA10	KHS.FA10	KHS.FA12
6	KHS.HF.W20	KHS.HF.W24	KHS.HF.W24	KHS.HF.W32
7	Hard wood 20mm	Hard wood 24mm	Hard wood 24mm	Hard wood 24mm
8	Surface finishing material	Surface finishing material	Surface finishing material	Surface finishing material

FIRE-RATED STEEL DOOR

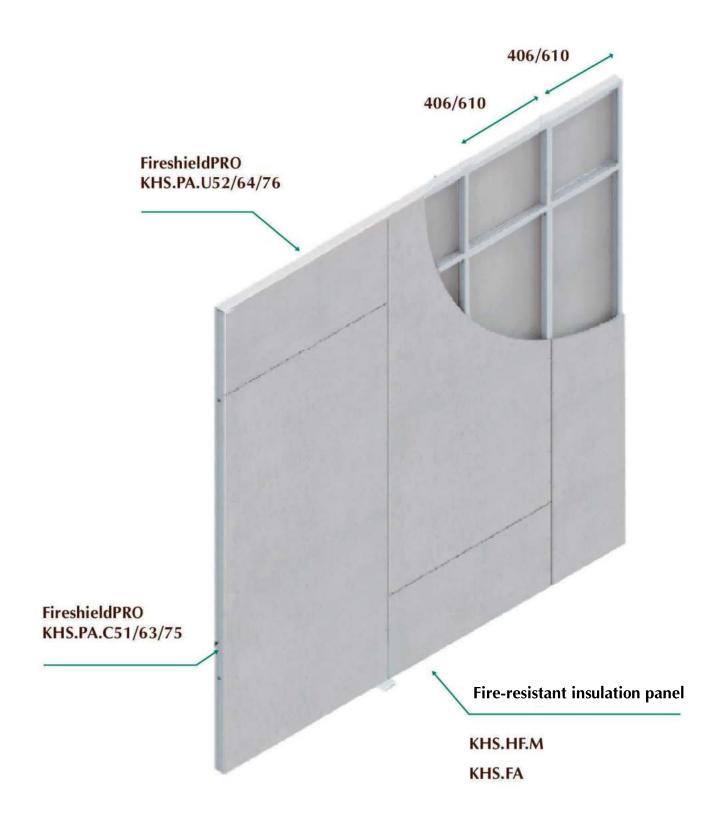




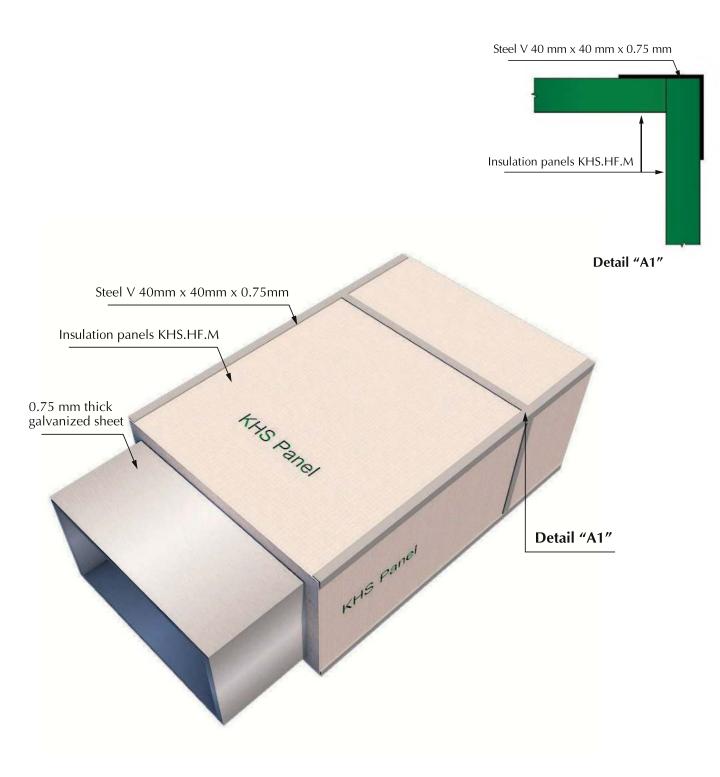


N0.	El 60 minute	El 70 minute	El 90 minute	El 120 minute
1	Steel 0.8 mm	Steel 0.8 mm	Steel 1 mm	Steel 1.4 mm
2	MPS 48	KHS.HF.M20 + KHS.HF.M24	KHS.HF.M24 + KHS.HF.M24	KHS.HF.M20 + KHS.HF.M32
3	Steel 0.8 mm	Steel 0.8 mm	Steel 1 mm	Steel 1.4 mm

APPLICATION IN FIRE-RATED PARTITION WALL

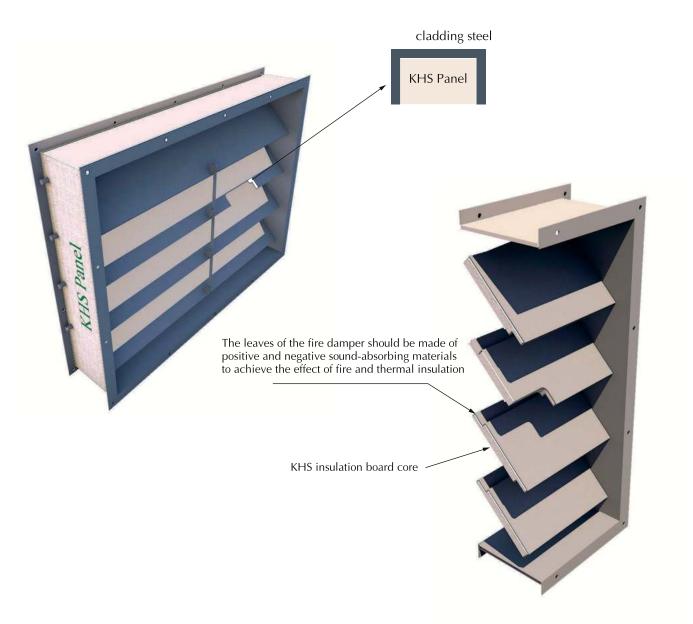


FIRE-RESISTANT DUCT STRUCTURE



El 30 minute	EI 45 minute	EI 60 minute	El 90 minute	El 120 minute
KHS.HF.M14	KHS.HF.M16	KHS.HF.M20	KHS.HF.M24	KHS.HF.M14 + KHS.HF.M16
STEEL 0.75 mm				

FIRE DAMPER



Note: The fire barrier valve should be constructed with a type 1 door that achieves both airtightness and thermal insulation

NO.	El 30 minute	El 45 minute	El 60 minute	El 90 minute
1	KHS.FA6	KHS.FA6	KHS.FA6	KHS.FA10
2	KHS.HF.M16	KHS.HF.M20	KHS.HF.M24	KHS.HF.M24
3	KHS.FA6	KHS.FA6	KHS.FA6	KHS.FA10

OTHER APPLICATIONS

Fire-rated and insulated elevator doors





- Steel plate
- 2 KHS.HF.M Insulation Panels
- 3 KHS.FA Fire Resistant Sheets
- 4 Steel Plates

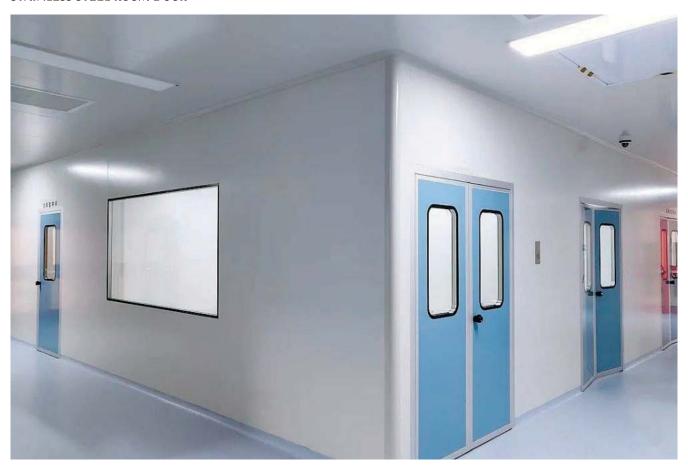
FIRE STOP DOOR, INSULATION







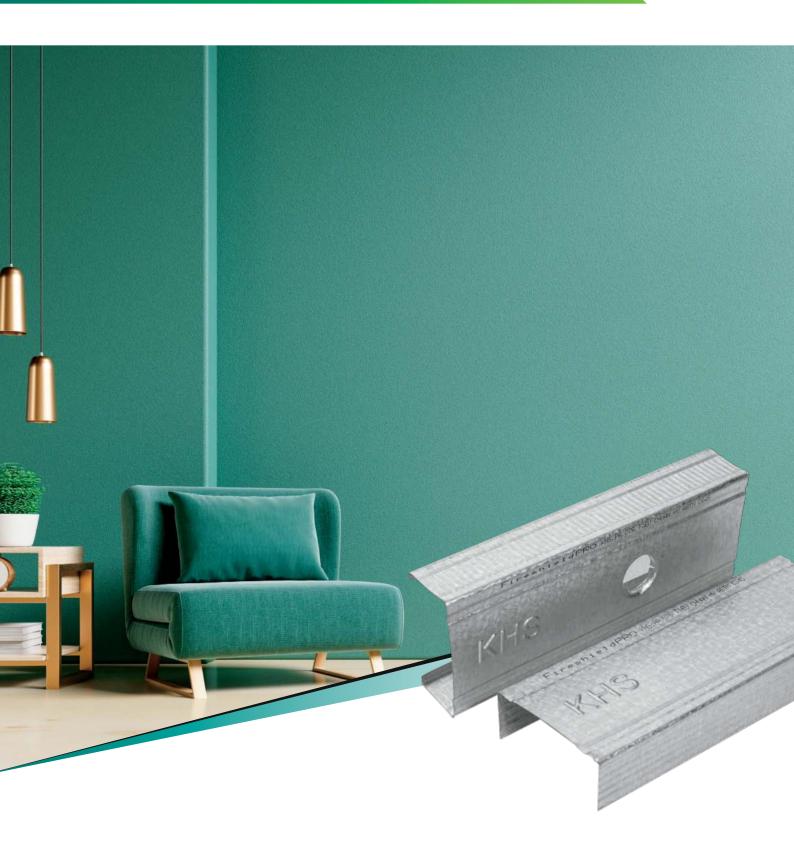
STAINLESS STEEL ROOM DOOR



FIREWALL FOR BARS, NIGHTCLUBS, KARAOKE

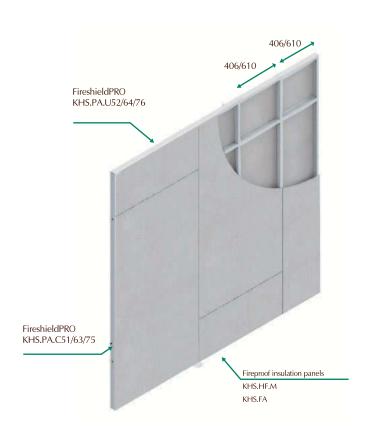


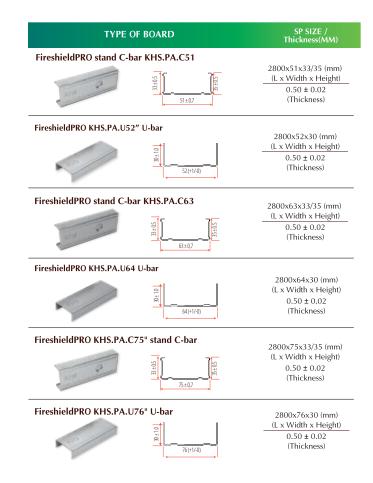
FIRESHIELDPRO KHS.PA FIRE BARRIER SYSTEM



FireshieldPRO KHS.PA fire partition system is a professional fire prevention and control solution for civil works, buildings, commercial and entertainment centers. High efficiency anti-warping, anti-heat, anti-humidity meet the standards QCVN 06/2021, ISO 11925, ASTM C645.

COMPOSITION & SPECIFICATIONS

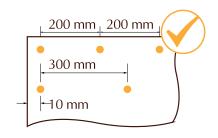




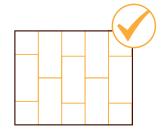
NOTES WHEN CONSTRUCTION TO GUARANTEE THE QUALITY OF THE WORKS



The distance between 2 vertical bars is 610mm or 406mm



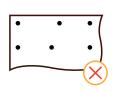
The plate edge screwing distance is 200mm, inside the plate is 300mm



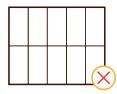
Plates must be staggered, not overlapping



The bearing capacity of the wall system is poor, reducing the system's durability



The bond between the plate and the frame is not aesthetically pleasing



Difficult to handle and easy to cause cracks





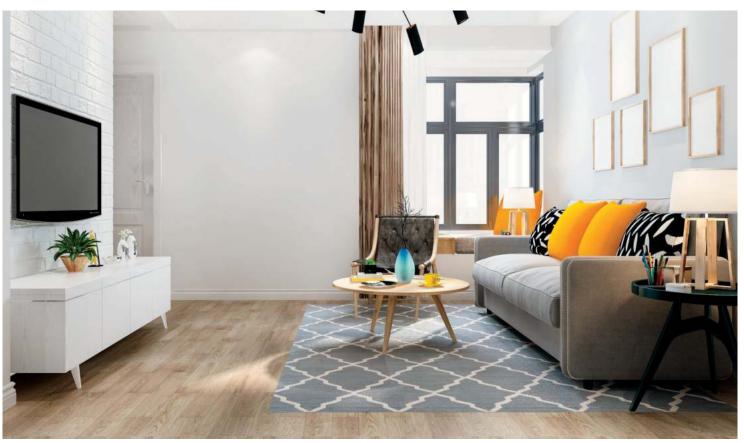




Steel switch



APPLI-CATION











PROVINCE	PROJECTS & CONSTRUCTIONS USE KH SHIELD PANELS						
	Evergreen Factory Vietnam						
	Public Bank Vietnam						
	Hong Ngoc Hospital						
	Golden Park Tower						
	Aeon Mall Ha Dong						
HANOI	High-Class Apartment Building N01 - T1 Diplomatic Corps Area						
	Complex Of Shopping Malls, Conference Services And Houses For Sale						
	Panasonic - Kinden Vietnam						
	Starcity Center						
	High-Rise Apartment Building On Planned Land Lot B3-CT03 & B3-CT06						
	Smoke Extraction System For LGDisplay H3 PROJECT Project						
LIALBUONG	Wyndham Dragon Do Son Resort Dragon Hill International Tourist Area						
HAI PHONG	NEW FACTORY SUNNY HOSE VIETNAM						
	Nippro Vietnam						
QUANG NINH	Khanh Linh Hotel						
QO/MAG TAIRATT	Lantana Ha Long Hotel						
HUNG YEN	AJ TOTAL Pho Noi PROJECT						
TIONG TEN	Pine Forest Project - CT04 - Ecopark Hung Yen						
HAI DUONG	Apec Mandala Wynham Hai Duong						
THAI BINH	Smart Hotel						
VINH PHUC	Onxin Electronics Co., Ltd						
PHU THO	Construction Of PE Tarpaulin Film Factory						
BAC NINH	SEV Hookup Works project in Yen Phong						
BAC MINIT	Thong Nhat Social Housing Area						
HA TINH	Vines Battery Factory - Vung Ang						
	Forest Product Processing Factory, Domestic Consumption And Export						
NGHE AN	Factory Manufacturing Electronic Products						
DANANG	Ba Na Mix						
QUANG NAM	Casino South Hoi An						
NINH THUAN	SUNBAY PARK HOTEL & RESORT						
LAM DONG	Emperor Hotel						
KHANH HOA	Phat Dat Luxury Tourist Area						
	Coop Mart Thap Muoi Supermarket						
DONG THAP	Public Administration Center Building						
KIEN GIANG	Project of Hillsite by Parcel						

	HCM City Urban Railway Project Ben Thanh - Suoi Tien Section, TS1						
	Golden Golbe Tower Commercial And Service Building Combined With Offices						
	Renovating And Equipping The Fire Protection System At Stamp Company						
	Construction Of Tan Quy Dong Kindergarten – Facility 1 & Facility 2						
	School For Training And Fostering Accounting Profession						
	Jabil Project - Thu Duc City, HCMC						
	Song Viet Complex Building, Lot 1-13						
	Union Square						
	HCMC Urban Railway Project Line 1						
HO CHI MINH	Tue Duc High School						
	Thao Dien Green						
	Intel Project						
	Medical Center Of Tan Binh District						
	Wink Hotel In The Heart Of Saigon						
	Institute Of Ethnic Medicine And Pharmacy						
	An Binh Hospital Phase 1						
	Factory Of Saigon Cosmetics Joint Stock Company						
	Linden Residences & Tilia Residences						
	Holiday Apartment - VUNG TAU PEARL						
	IXORA Ho Tram Project						
VUNG TAU	Marubeni Vietnam Instant Coffee Factory						
	Long Son Petrochemical Complex						
	Hai Au Furniture Industry Company Limited (Vietnam)						
	RRF Vietnam Agricultural Product Processing Factory - Phase 2						
BINH DUONG	Chanh Nghia Quoc Cuong Apartment Area						
	Metro Tower High-Rise Apartment Building						
	Hiive Hotel Binh Duong						
	Aquacity Trade Center Project						
	Lotus Dai Phuoc Project, Division 6 - Phase 1						
DONG NAI	Construction Exterior Wall Mounted Exhaust Fan DAFANG FACTORY						
	Factory Of TEXHONG Nhon Trach Science And Technology Co., Ltd						
	House K20, Area K Pousung						
	Chan Sinh Factory						
LONG AN	Hoan Cau Long An Golf Course Project						
	Construction Of CFK Vietnam Co., Ltd						
TAY NINH	Fire Protection System For Auxiliary Cable Lines Of Station 05, Station 06						
I/AT INIINIT	Fire Protection System Zone B Cable Line & Auxiliary CTs						
	·						

CERTIFICATE NON-TOXIC SMOKE-FREE



VIÊN KHOA HỌC CÔNG NGHỆ XÂY DỰNG

VIỆN CHUYÊN NGÂNH KẾT CÂU CÓNG TRÌNH XÂY DỤNG Institute of Building Structures Bia chi 18 Trin Cung - Nghà Tân - Câu Giệp - Hà Ngi - Tel: 124.62678187 - Wessils

KẾT QUẢ THỬ NGHIỆM ỨNG XỬ VỚI LỬA CỦA VẬT LIỆU TEST RESULTS OF REACTION TO FIRE PROPERTIES OF MATERIAL

Số Hợp đồng Contract Number	019/2022KN1BS		Số hiệu Bảo cản: Report Number:	041.22.V	L.NCPCC		
Khich hing Clime:	CÔNG TY CÓ PHẨN KH SHII	LD / KH	SHIELD CORPORATION				
Dia chi Address	Thus đất số 580, từ hàn đồ số 28, khu I, Phương Hoà Phú, Thành phố Thủ Đầu Một, Tính Bình Dương, Việt Nam 1 Land of lới No. 390, May No. 28, Zone 1, Hoa Phu Word, Thu Duis Mu Caty, Binh Duning Province, Vêr Nian						
Mẫu thứ / Specimens Mô từ mẫu vật liệu / Specimen description	Tẩm chẳng chây FireShieldPRO Mẫu vật liệu dạng tẩm phẳng, d ạnd komagoneum, white color						
Khối lượng thể tích côn	ng bb - Declared density: 1000 (1	igim ³) C	hiểu đây ường bố - Declares	(thickness)	3 (mm)		
Ngày nhận mẫu Speci	men delineried: 12/09/2022	N	gky thứ nghiệm / Texting đư	No.	28/09/2022		
Chi tiêu thứ nghiệm / A	caction in fire property:	Tinh độc	của sản phẩm khôi? Taxici	trafamolic:			
Tiểu chuẩn thứ nghiệm	Standard testing method:	180 5660	02				
		112 th Same	thứ nghiệm hệ số sinh khó	/ Cone Calor	limates.		
Thiết hị thứ nghiệm 7	esting apparates	and second	com selfundan aid no num seno		HITCHET.		

KÉT QUẢ THỬ NGHIỆM / TEST RESULTS

Min / Sample			Khli luyng say giam / Mare loss	Thời gian chây / Burning duration	Liêu hiệu dụng / Fractional Effective Done	Chi sh H _{CSB} / Toxic potency (g/m ³)	
Lön nhất	Tr.binh	(g)	(8)	AUTOMIC ANNE	Tirng måu / /m/	Tr.binh / dg	
1	1380	609.73	5.9	T.	0.107	2298.14	
2	1091	\$20.60	5.4	1	0.091	2463.50	2302.56
3	1137	531.21	4,8	1	0.093	2146,04	
Phân Ioui	độc tính của kh	oi thes QCV2	8 06:2021/HXD - 7m	icity of smake Coas	according to QCT	N 86-2827-8322	DTI





Vietn CHUYÊN NGÂNH KẾT CẦU CÔNG TRÌNH XÂY DỰNG Institute of Building Structures

Die chi: 81 Tribe Cong - Nghĩa Yân - Câu Giệy - Nà Nội - Tei 124 62670817 - Website: when

PHIỀU KẾT QUẢ THỬ NGHIỆM ỨNG XỮ VỚI LỮA CỦA VẬT LIỆU

Số Hợp đồng: 018/26 Contract Number:		8/2022KNIBS	Số hiệu Bảo cầu: Report Number: 040.22	VLNCPCC			
Khách háng / Client	CÔNG TY CÓ PHÂN KH SHIELD / KH SHIELD CORPORATION						
Dja chi (Address)	Thus dất số 500, từ bia đồ số 28, khu 1, Phường Hoà Phú, Thành phố Thú Đần Một, Tính Bình Dương, Việt Nam 1 Land of lot No. 500, Map No. 28, Zone L. Hoa Phu Ward. Thu Dan Mộc City: Bình Dùng Promise, Fiet Nam.						
Mills thir / Specimens:	Tâm chống chủy FireShieldPRO KHS.FA 3 / FireShoeldPRO KHS.FA 3 fire reststant board						
Mñ tá mliu vật liệu / Spectmen description/	Mẫu vật liệu đạng tầm phẳng, đồng chất, màu trắng / Sample material is in plant form, solid and homogeneous, shifte color.						
Khối lượng thể tích công bố - Declared density:		1000 (kg/m ³)	Chies day olog bo - Declared thickness	3 (mm)			
Ngày shận mấu / Specimen didiversed:		12/09/2022	Ngày thứ nghiệm - Tenning dan:	26/09/2022			
Chi tidu tha nghiàm / Reaction to fire property:		Hệ số sinh khi	64.) Mass Optical Density				
Tidu ghuần ấp dụng / Standard sesting method		ISO 5659-1:90	180 5659-1:96				

varie finism shadnift - retoremor service mession.		Hệ thống thữ nghiệm hệ số sinh khởi / Smole Density Chamber					
Thiết bị thứ nghiệm / Testing apparatus: Nhiệt độ mỗi trường / Amhiest Temperature (°C):							
			25	Vật tiệu nền / Bucki	Khing / No		
		KÉT QUÁ	THU NGHIỆM	TEST RESULTS			
	quang lớn nhất han đ / Maximum Initial	Khối hợng ban đầu / Initial Missi	Khối trợng kết thúc / Finish Mass . (g)	Hệ số sinh khôi / Max Optical Density (m ² /kG)		Clip trice xa breadiance: (kW/us ³)	
		(g)		Min / Specimen	Tr. binh / dvg.	(8.91/10-)	
MI	2.95	16.2	10.3	2.1	2	50kW/m ² không lừa môi surhout pilot flame	
M2	3.46	16.6	11.2	2.0			
M3	2.75	17.3	12.3	2.0			
Phân hoại tinh sinh khôi theo OCVN 66:2821/8XD - Snolo generation Class: occording to OCVN 06:2027/8XD							

Phong NC PCC Dept. of fire safety ongin

Houng Anh Giang

Nguyễn Trung Kiên

ette. Johnstaan volg Ablinor Book us arbån strakte mår. Vider absyste regioti Kör mår sitesy trinde vats storag (1800).

Phing thi ngkiệm Phong chẳng sháy Foe Batety Engineering Laboratory (LAS-KD-416)

VIEN KHOA HOC CÔNG NGHỆ XÂY DỰNG Vietnam Institute for Building Science and Techni

VIEN CHUYÊN NGÂNH KẾT CẦU CÔNG TRÌNH XÂY DỤNG Institute of Building Structures Dis chi: 81 Trần Cung - Nghĩa Tân - Câu Giấy - Hà Nội - Tel: 024.62670817- Website: www

UAS XII-418 TEL: (84-24) 37543439 - Hotline: (84) 913000554 - Fax: (84-24) 62692708

PHIỆU KẾT QUẢ THỮ NGHIỆM ỨNG XỮ VỚI LỬA CỦA VẬT LIỆU

TEST RESULTS OF REACTION TO FIRE PROPERTIES OF MATERIAL
SCHOKN: 018/2022 KN1BS Schild Blackle
Ingust Number: 018/2022 KN1BS Report Number: 039-22
Ingu-Cliost: CÓNG TY CÓ PHÂN KH SHUELD / RFSHIELD CORFORATION Throa die sh 500, to bin dò số 28, khu 1, Phương Hoà Phụ, Thành phố Thú Dân Một, Tinh Bình Dương Việt Nam Land of lạt Na. 500. Mạp No. 28, Zone 1, Hoạ Phụ Ward, The Dou Mor City, Tinh Duong Presence, Viet Nam.

Chiếu dày công bố - Dech

Måu thir - Speciment: Tam ching thay FireShieldPRO KHS.FA 3 / FireShieldPRO KHS.FA 3 fire resistant board

ny công bắ - Declared thindness: 3 (mm) Khối họng thể tiện công bắ - Declared dimitive.

If this: Mẫn vật tiện dạng tầm pháng, đồng chắt, mùn trắng (Sample material is to giain board fit
in description: homogonium, white colors. gay thin min - Specimen deferenced: 12/9/2022

ibs chalm ap dung - Standard testing method: ISO 1182:2010 Chi tiêu thii nghiệm - Mascation to fire property: Tinh không chủy / Non-Co Tink không chây / Noo-Conthouthilly

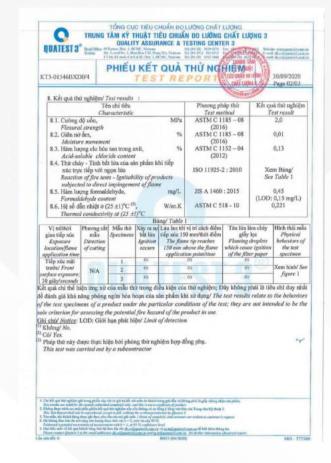
Hệ thống thẻ nghiệm tinh không chây của vật liệu / Tabo farmace for testi
Non-Combastibility of materials

25. Vật liệu nên - Bocking material: Không có / No Thiết bị thứ nghiệm - Test approvieus:

hiệt độ mỗi trường - Embient Temperature (oC): 25

		KETQU		-	TEST RES	HELE IT	407.57	-
Các tiểu chỉ / Specification		Ký hiệu mẫu / Specimen					Giá trị trung bình / The	Giá trị giới hạn / Critica
		MI	M2	M3	M4	M5	avwrage value	value.
Khili laying ban đầu của mẫu / Initial Mass (g)		87.99	82.47	88:50	80.36	83,70		
	i mẫu sau thí nghiệm (mợ! Maxx (g)	57.08	53.50	57.02	50.89	51.78		
	luọng của mắn fạss loss (%)	35.13	35.13	35.57	36.67	38.14	36.13	< 50
Nhiệt độ của lò / Furnace Temp.(*) (*C)	Trede khi dau mau / Initial Temp.	745.3	746.5	746.5	748.9	749.6		/
	Nhiệt độ lớn nhất / Maximum Temp.	7763	759.6	817.8	776.9	788.3		/
	Culi thir nghiệm / Final Temp.	774.91	758.07	816.55	774.05	785.50		/
	Gis ting nhiệt độ / Rise of Temp.	1.39	1.53	1.25	2.85	2.80	1.97	< 50
Nhiệt độ tại toò một mẫn / Specimen sterface Temps!") (°C)	Nhiệt độ tơn nhất / Maximum Temp.	793.3	784.5	#16.7	776.2	798,7		
	Culi thir nghiệm / Final Temp.	791.62	781.25	815.53	773.63	797,53		/
	Gia táng nhiệt độ / Rise of Temp.	1.68	3,25	1.17	2.57	3.17	1.97	< 50
Thiri gian chay on djnh / Sustained flaming (sec)		0	0	0	0	0	0.0	< 10
Phân Ingi vật liệu theo QCVN 06:2021/BXD Material Classification according to QCVN 08:2021/BXD			Virtu	u không ch	ay / Non-Combus	able material		









OUR PARTNERS

























KH SHIELD IS HONORED TO BE A COMPREHENSIVE PARTNER OF TYPICAL, TOP ENTERPRISES IN VIETNAM

































BEN THANH - SUOI TIEN RAILWAY LINE





THAO DIEN GREEN



AEON MALL HA DONG



THE RIVER THU THIEM



METROPOLE DISTRICT 2



EVERGREEN VIETNAM



LONG SON PETROCHEMICALS



CHANH NGHIA QUOC CUONG



AQUA CITY TRADE CENTER - DONG NAI



INTEL VIETNAM FACTORY



SOL FOREST PROJECT CT04 ECOPARK HUNG YEN





SUN GRAND CITY HILLSIDE -PARCEL PHU QUOC



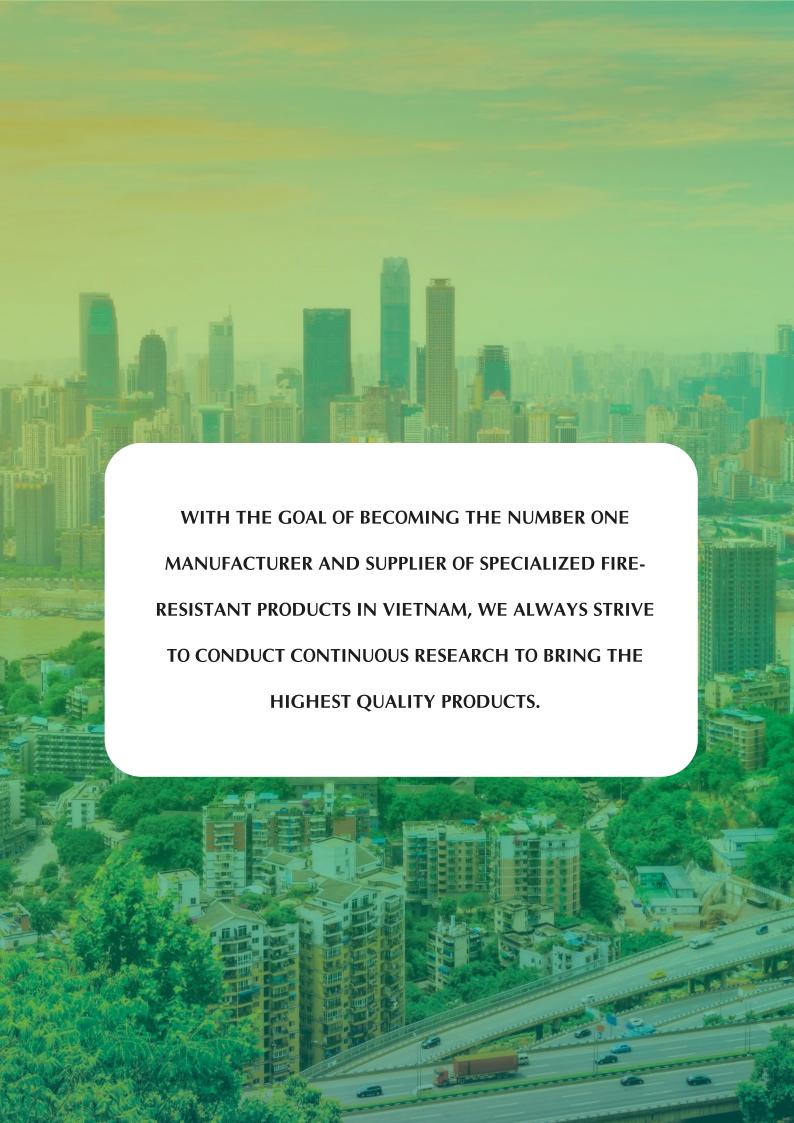
APEC MANDALA WYNDHAM HAI DUONG



LG DISPLAY H3 PROJECT - HAI PHONG



PANASONIC VIETNAM





KH SHIELD - VIETNAM'S LEADING FIRE PREVENTION SOLUTIONS EXPERT

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Southern Branch: 10 Nguyen Dang Giai, Thu Duc, Ho Chi Minh City

Northern Branch: 167 Khuat Duy Tien, Thanh Xuan, Hanoi

Factory: Lot 500, Map Sheet 28, Zone 1, Hoa Phu Ward, Thu Dau Mot City, Binh Duong Province