



PDA——全球领先建筑材料供应商

其旗下各产品及品牌，主要关注节能、安全和人性的行业发展趋势

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PERFECT DESIGN ASPIRER



幕墙 门窗 隔断

THE WORLD'S LEADING SUPPLIER OF THE BUILDING MATERIALS

ALL PRODUCTS AND BRANDS MAINLY FOCUS ON THE DEVELOPMENT OF ENERGY SAVING, SAFETY, AND HUMANE INDUSTRY.

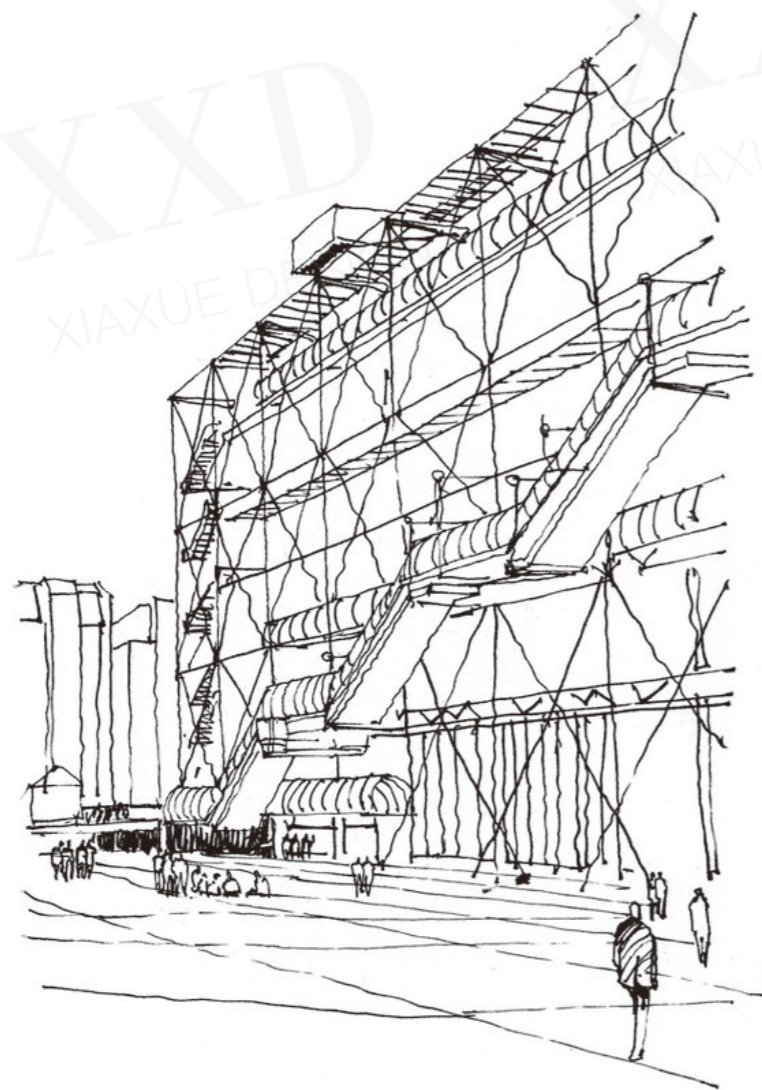


DIRECTORY

01	幕墙 Curtain Wall	
	02	窗户系列产品 Window Series Products
		03 门系列产品 Door Series Products

《建筑设计防火规范》2015版

Architectural Design Code For Fire Protection



幕墙

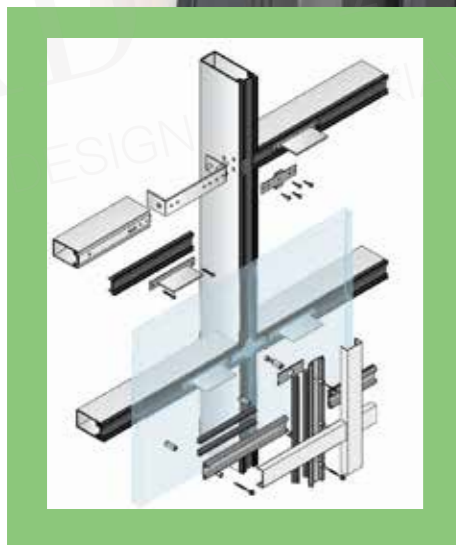
Curtain Wall



5.3.2条 建筑内设置中庭时，与周围连通空间应设置防火分隔：采用防火隔墙时，其耐火极限不应低于**1.00h**；采用防火玻璃幕墙时，其耐火隔热性和耐火完整性不应低于1.00h，采用耐火完整性不低于1.00h的非隔热性防火玻璃墙时，应设置自动喷水灭火系统进行保护。与中庭相连通的门、窗，应采用火灾时能自行关闭的甲级防火门、窗。

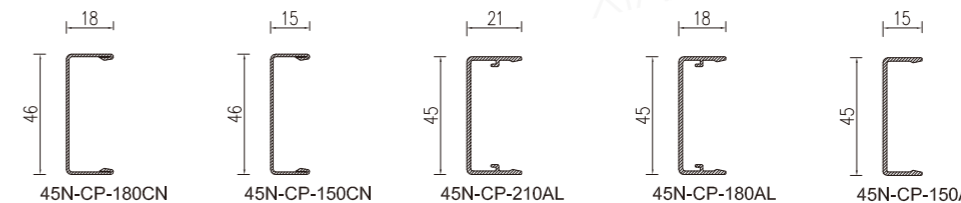
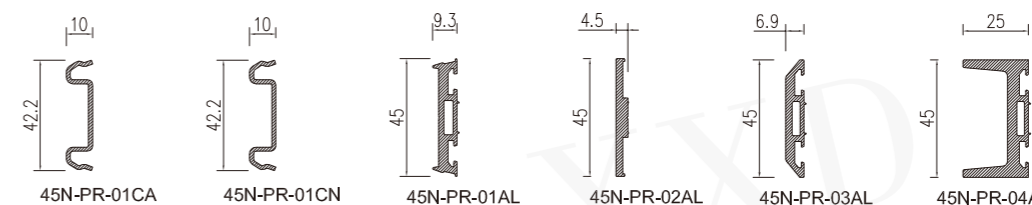
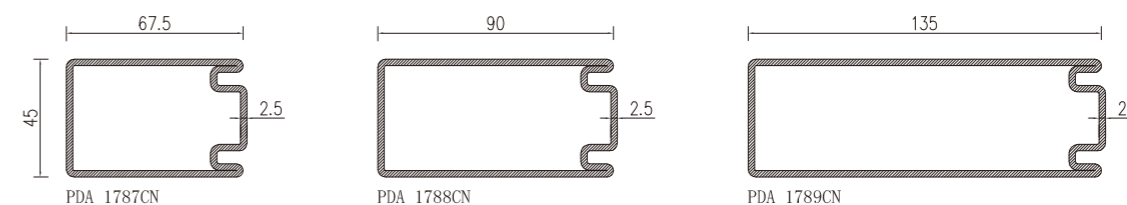
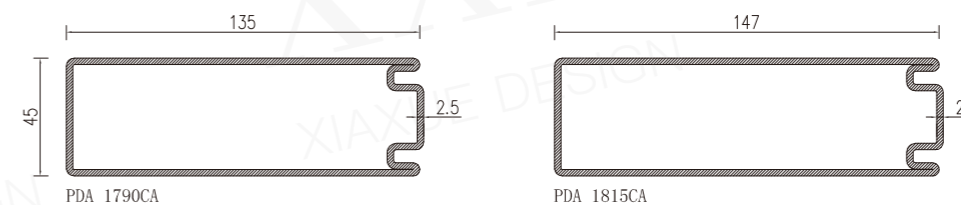
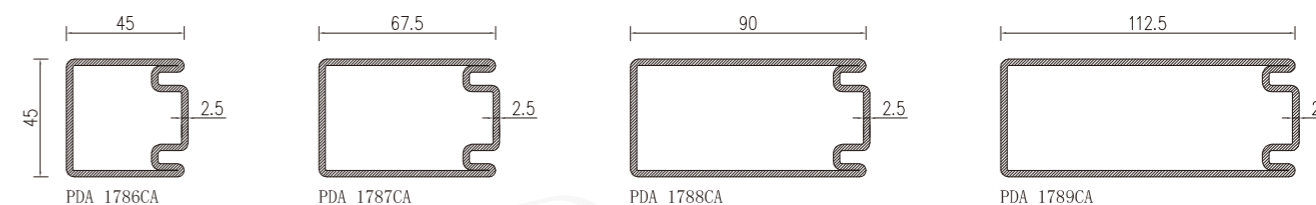
When setting atrium in building, there must be separation between the atrium and the surroundings, the atrium's fire endurance should be at least 1.00 hour. If it is insulated glass, the fire endurance should be more than 1.00 hour, if it is non-insulated glass, the fire endurance should be at least 1.00 hour, and be equipped with water curtain protection system. Doors and windows connect with the atrium should be self-closing in a fire and the endurance of which should be at least 1.5 hours.

CLEAR TRANSPARENT



45N应用项目：联想二期中庭防火幕墙、武汉光谷中庭幕墙、北奥大厦中庭幕墙、中国药科大学项目防火固定窗。

Application of 45N: Fireproof curtain wall in LENOVO headquarter, fireproof curtain wall in Optics Valley of China, atrium curtain wall in Bei'ao Building, fireproof windows in China Pharmaceutical University.



60N



5.3.6条 步行街两侧建筑的商铺，其面向步行街一侧的维护构件的耐火极限不低于1.00h，当采用防火玻璃墙（包括门、窗）时，其耐火隔热性和耐火完整性不应低于1.00h，采用耐火完整性不低于1.00h的非隔热性耐火玻璃墙（包括门、窗）时，应设置闭式自动喷水灭火系统进行保护。

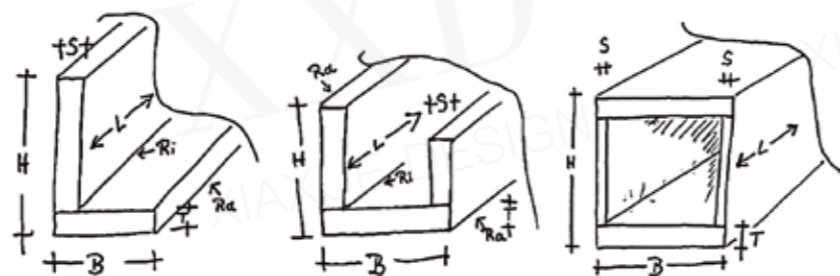
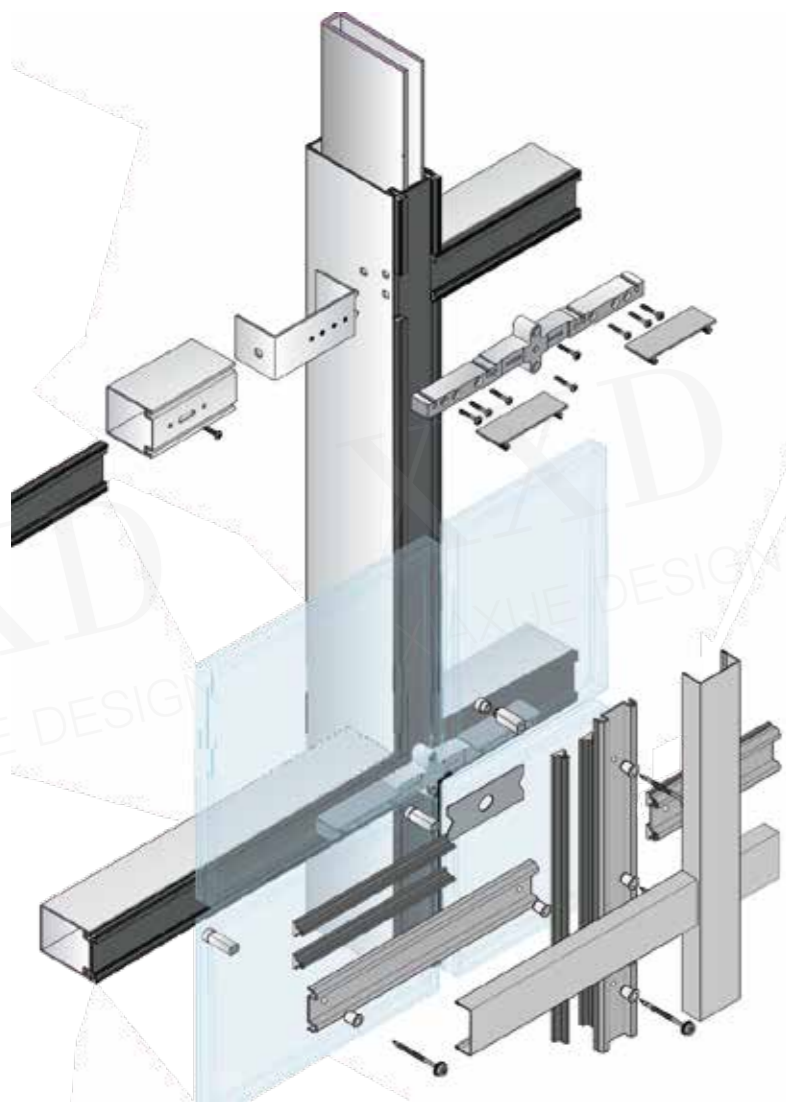
As for the shops on both sides of the business street, the wall close to the street should endure the fire for at least 1.00 hour; if the wall is insulated, the fire endurance should be at least 1.00 hour; if the wall is non-insulated glass, the fire endurance should be at least 1.00 hour and should be equipped with water curtain protection system.

PDA-60N-幕墙系统



60N应用项目：深圳华润总部大厦、天津茱莉亚音乐学院防火幕墙、浦发银行南京分行。

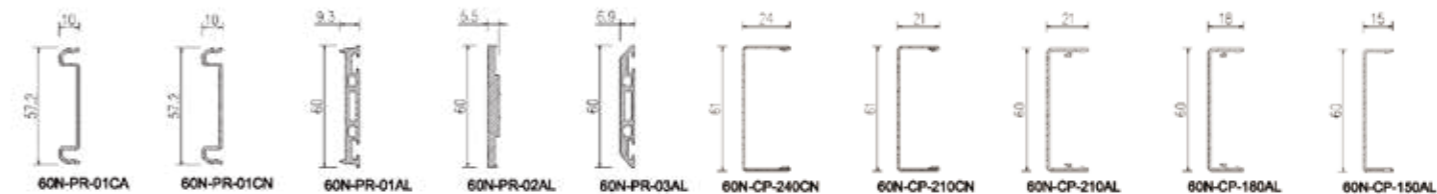
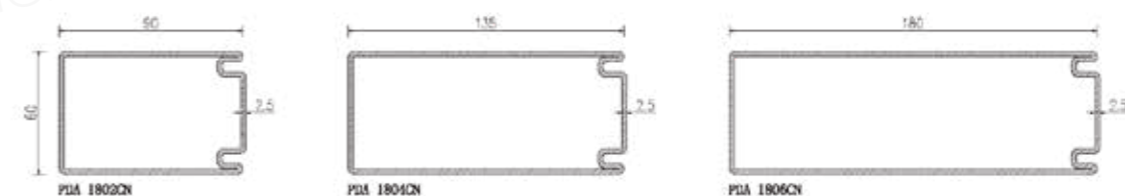
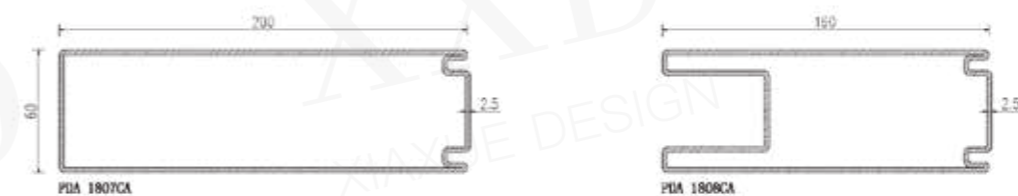
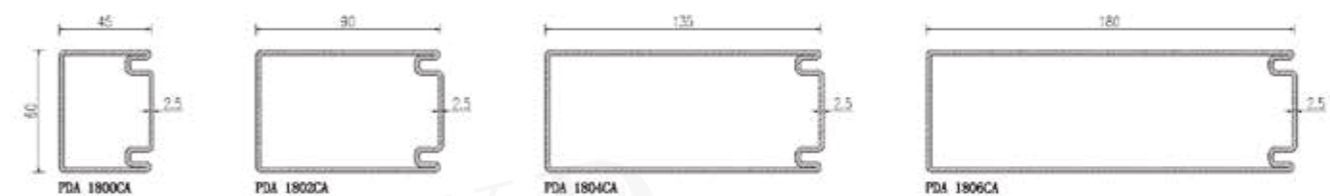
Application of 60N: Shenzhen Huarun Headquarters Building, Tianjin JULIARD School, Nanjing branch of Pudong Development Bank.



类型	测量值 (mm)				长度(最大)
	B(最小)	B(最大)	H(最小)	H(最大)	
L型钢	40	200	40	1000	15,000
U型钢	40	200	40	1000	15,000
中空钢	30	200	50	1000	15,000
H型钢	30	400	50	1000	15,000
TR型钢	30	400	60	1000	15,000
T型钢	30	400	30	1000	15,000

DIN 18800-7欧标认证 DIN EN ISO 13919-1认证	
类型	相关欧标
L型钢	DIN EN 10056-1 & 2
U型钢	DIN EN 10279
中空钢	DIN EN 10219
H型钢	DIN EN 1025
TR型钢	DIN EN 10055
T型钢	DIN EN 10055

钢板可杂合的种类	
• 奥氏体和奥氏体	• 奥氏体和铁素体
• 铁素体和铁素体	• 马氏体和奥氏体



60N节能钢制幕墙系统 STATIC VALUE

60N是所有PDA钢框架幕墙系统中承重性能最好的。60N钢框架幕墙系统除了能满足45N幕墙系统所有的特性之外，还拥有很高的静态值。更大的型材尺寸实现了横梁和立柱各自最大的跨度，由于其系统独特的几何结构形状也完全提升了系统整体的承重性能，即使特殊重量的玻璃也不会影响系统的整体功能性。

60N: Among all the curtain wall system, 60N has the best loading capacity. Besides the similar traits of 45N, 60N has a higher static value. The bigger size of the profiles makes a huger span more possible, the special structure helps to optimize the loading capacity.

MULTIPLE CURTAIN WALL SYSTEM

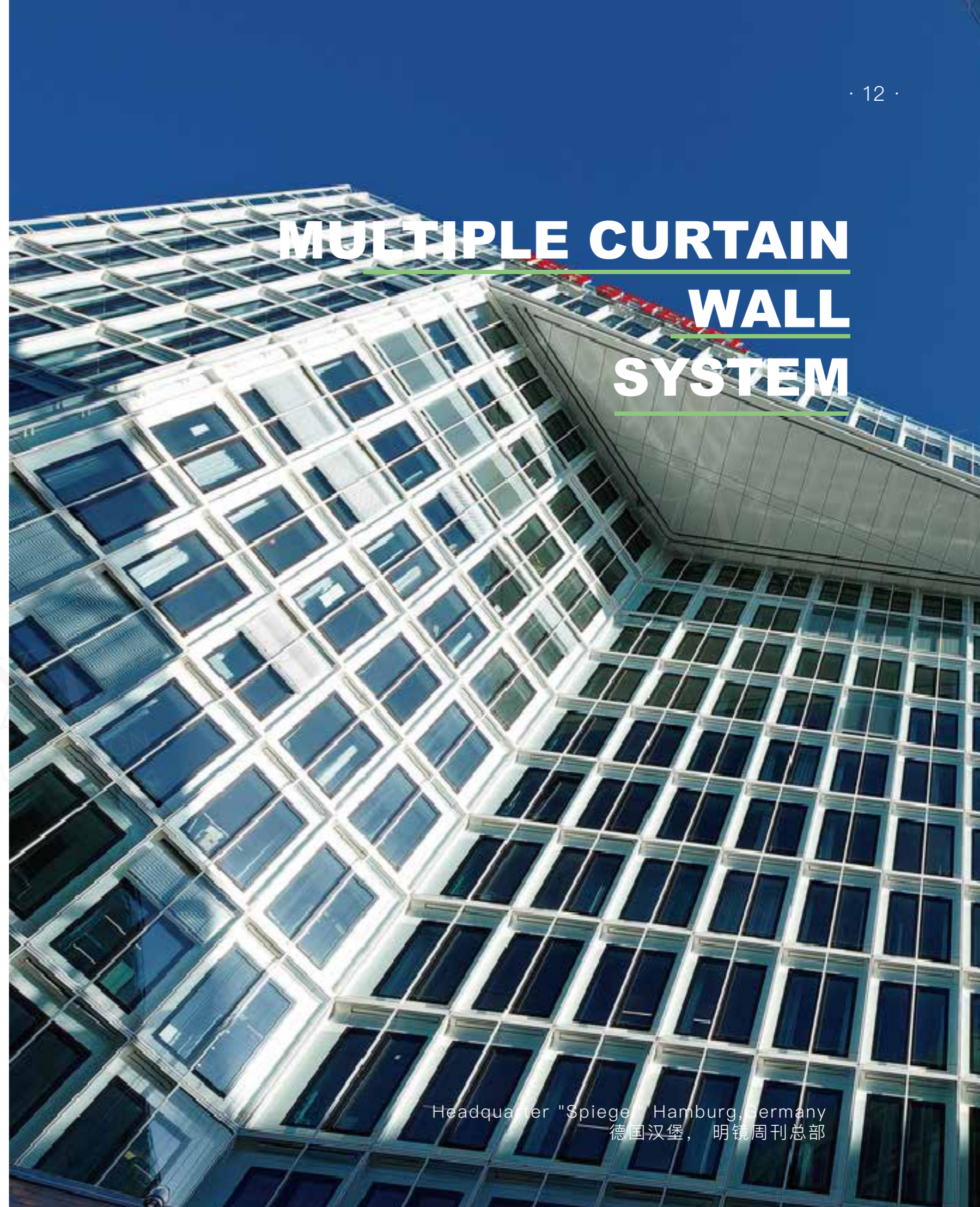
叠加幕墙



钢质叠加幕墙是用一种简单的结构实现多样化的性能要求，它灵活的配合方式，使其不但可以用于垂直构造幕墙，还可以用在斜面构造的幕墙。并且其看面尺寸可以自由选择40mm~80mm之间。

Added curtain wall system:
The flexible matches of different materials help to achieve various function requests. In addition, the added curtain wall system can be used in angular curtain wall. The visible surface ranges from 40mm to 80mm.

MULTIPLE CURTAIN WALL SYSTEM



Headquarter "Spiegel" Hamburg, Germany
德国汉堡，明镜周刊总部

Multiple CURTAIN WALL SYSTEM

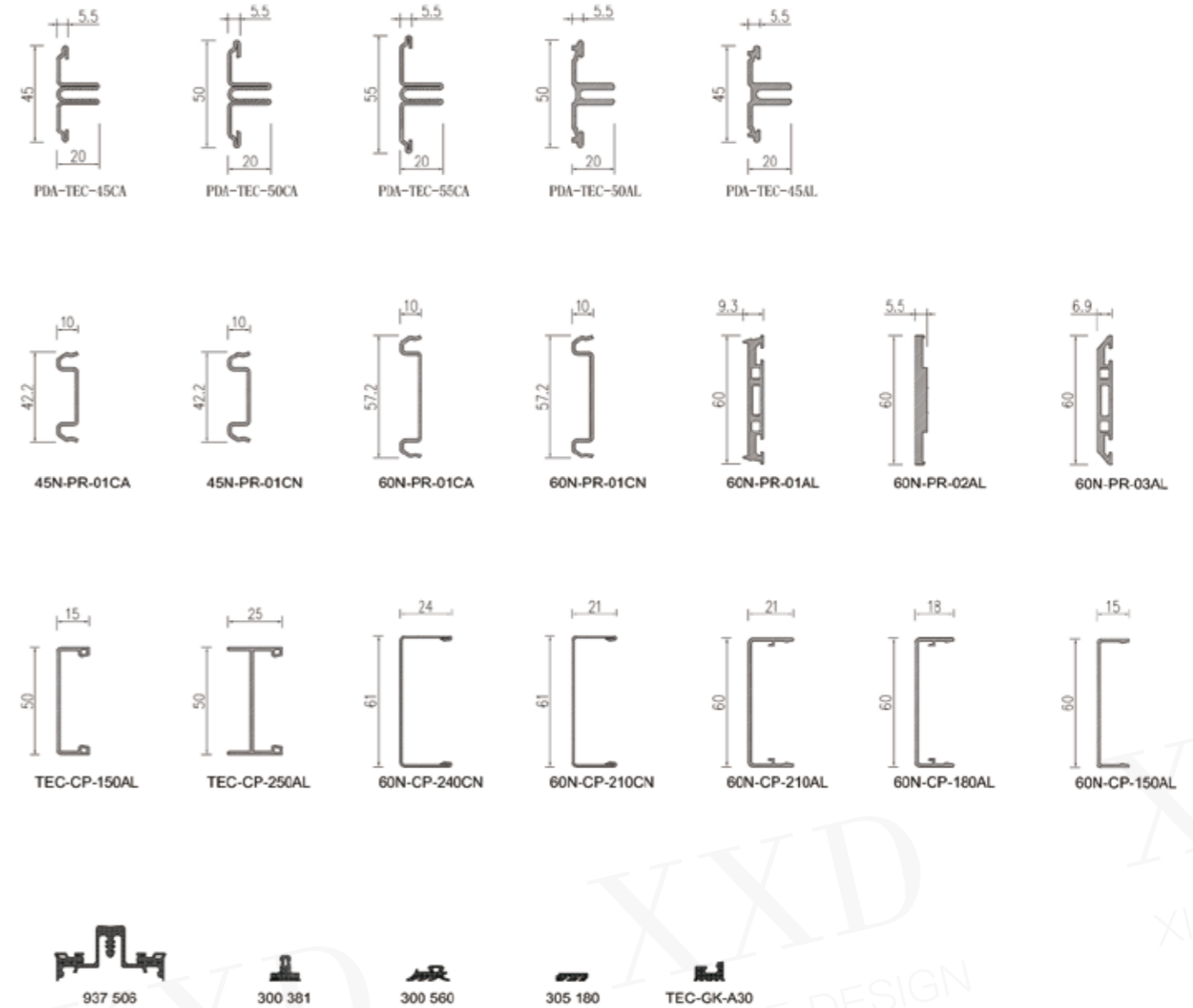
Combination diversity
Fire resistance
Processing,easy to install
Energy saving and environmental protection



- ↑ 组合多样性
- ← 防火性
- 安装简便节能环保

叠加幕墙应用项目：北京亚投行总部大楼叠加幕墙、北京奥体文化商务园地下公共空间叠加幕墙、京西钢制叠加幕墙、深圳三鑫科技公司叠加幕墙。

Application of Multiple curtain wall: Asian Investment Bank Headquarters in Beijing,Beijing Olympic Culture Business Park,JINGXI steel multiple curtain wall,Shenzhen Sanxin Technology Company.



5.3.6条 步行街两侧建筑的商铺，其面向步行街一侧的围护构件的耐火极限不应低于1.00h，并宜采用实体墙，其门、窗应采用乙级防火门、窗；当采用防火玻璃墙（包括门、窗）时，其耐火隔热性和耐火完整性不应低于1.00h；当采用耐火完整性不低于1.00h的非隔热性防火玻璃墙（包括门、窗）时，应设置闭式自动喷水灭火系统进行保护。

As for the shops on both sides of the business street,the wall close to the street should endure the fire for at least 1.00 hour: if the wall is insulated,the fire endurance should be at least 1.00 hour,if the wall is non-insulated,the fire endurance should be at least 1.00 hour and should be equipped with water curtain protection system.

防火检测报告

FIRE DETECTION CERTIFICATE

45N幕墙A类 120min防火隔热报告

80NC类 78min防火玻璃隔断型式报告



45N幕墙A类 60min防火隔热型式报告

50全钢C类 188min防火报告





窗户系列

Window Series Products

70-W

《建筑设计规范》2015版第5.5.32条 规定：建筑高度大于54m的住宅建筑，每户应有一间房间符合下列规定：

1. 应靠外墙设置，并应设置可开启外窗；
2. 内、外墙体的耐火极限不应低于1.00h，该房间的门宜采用乙级防火门，外窗宜采用耐火完整性不低于**1.00h的耐火窗**。

If the residential building is more than 54 meters high, there should be a room in each unit,
1. The room should be settled next to the outer wall, and be equipped with openable window
2. The inner wall's and outer wall's fire endurance should be at least 1.00 hour, the door's and the outer window's fire endurance of the room should be at least 1.00 hour.



PDA_70W

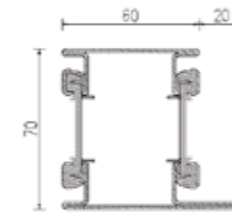
FIRE AND INSULATION



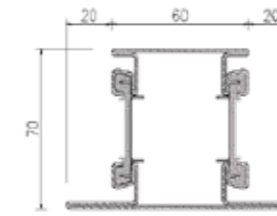
CONCRETE OPENINGS OR GLASS WALLS

5.5.23条 建筑高度大于100m的公共建筑，应设置避难层（间）。避难层（间）应设置直接对外的可开启窗户或独立的机械防烟设施，外窗应采用乙级防火窗。

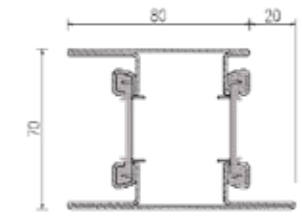
If the public building is more than 100 meters high, it should be equipped with refuge layer(room). There should be out-opening windows or independent mechanical smoke control facilities, and the window should be 1.00 hour fire rated windows.



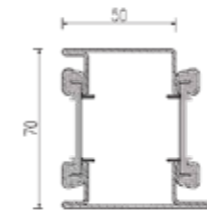
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PDA-915113CN



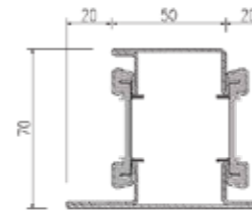
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PDA-915213CN



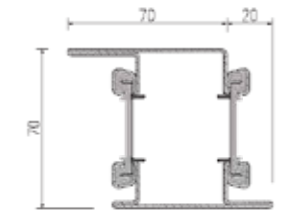
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PDA-915602CA
PDA-915603CN



PDA-915702CA
PDA-915703CN



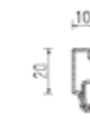
PDA-915802CA
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PDA 920012CA
PDA 920013CN



PDA 920022CA
PDA 920023CN



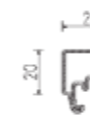
PDA 920032CA
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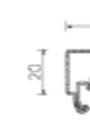
PDA 920042CA
PDA 920043CN



PDA 920052CA
PDA 920053CN



PDA 920062CA
PDA 920063CN



PDA 920072CA
PDA 920073CN



PDA 920082CA
PDA 920083CN



PDA 920092CA
PDA 920093CN

70-W应用项目：浙大艺术博物馆项目、澳门筷子基南湾D地段及北湾E地段防火窗项目、冬奥会防火窗、中国熊猫电子集团防火窗、天津鲁能绿荫里幕墙工程。

Application of 70-W: Art Museum of Zhejiang University, fireproof windows of FaiChiKei in Macau, fireproof windows of Winter Olympics Center, fireproof windows of Panda Electronics Group, Luneng Green Shade Curtain Wall Project in Tianjin.

55-W

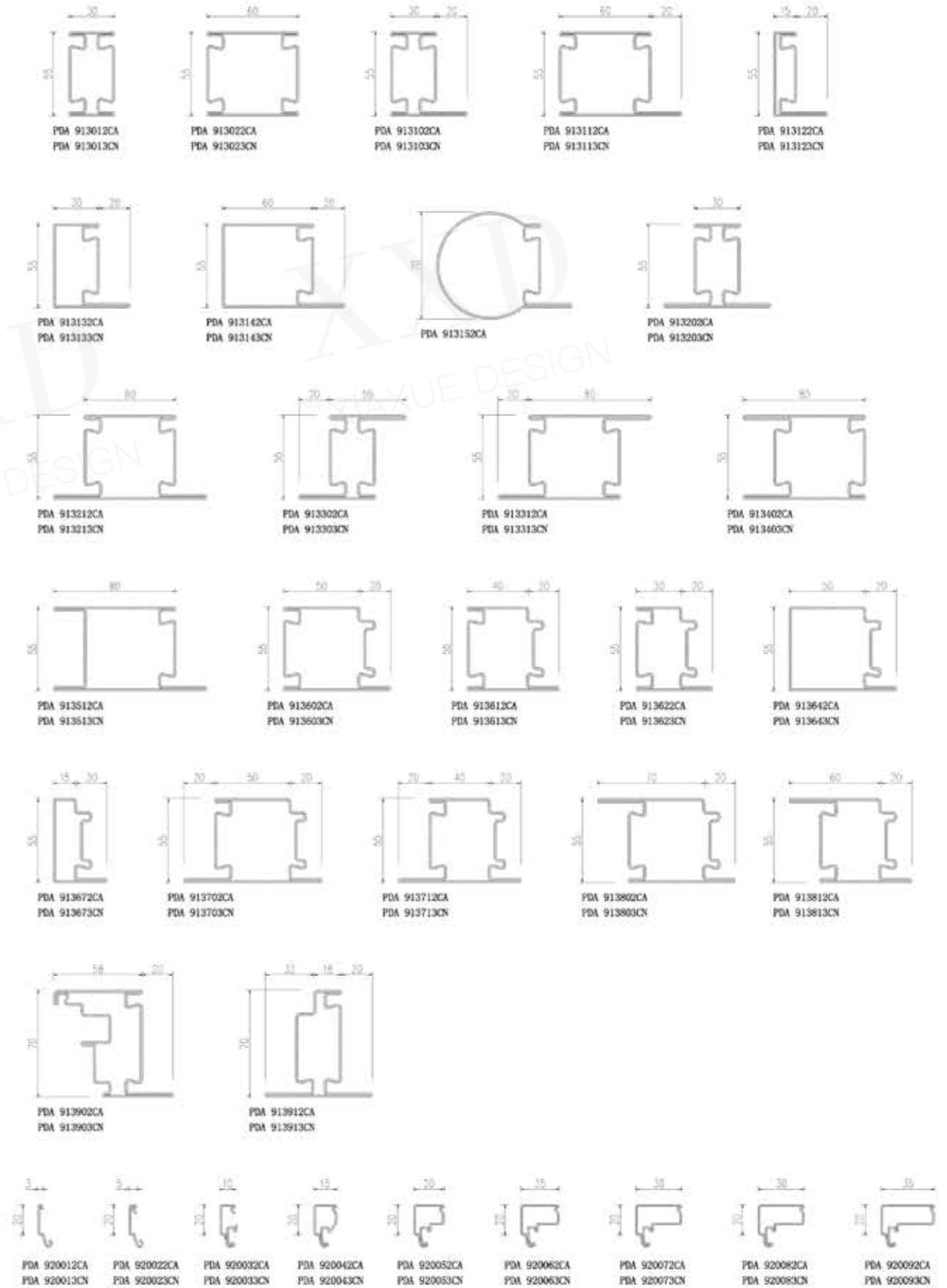


SYSTEM PARAMETERS

系统参数:

1. 钢质框架，框架型材深度为55mm
2. 钢材为奥地利进口1.5mm厚优质冷弯钢型材
3. 固定扇型材的可视面尺寸为50/80mm
4. 横竖向立柱的可视面尺寸为70/100mm
5. 框架玻璃表板厚度：4~39mm

1. Steel frame, frame profile depth is 55mm
2. Steel is imported from Austria, 1.5mm thick, cold-formed
3. The visible surface size of the fixed fan profile is 50/80mm
4. The visible surface size of the horizontal and vertical columns is 70/100mm.
5. Frame glass surface plate thickness: 4-39mm



Fineline-W

RETRO AND ELEGANT
BEAUTIFUL **VISUAL EFFECTS**

PDA - FINELINE W

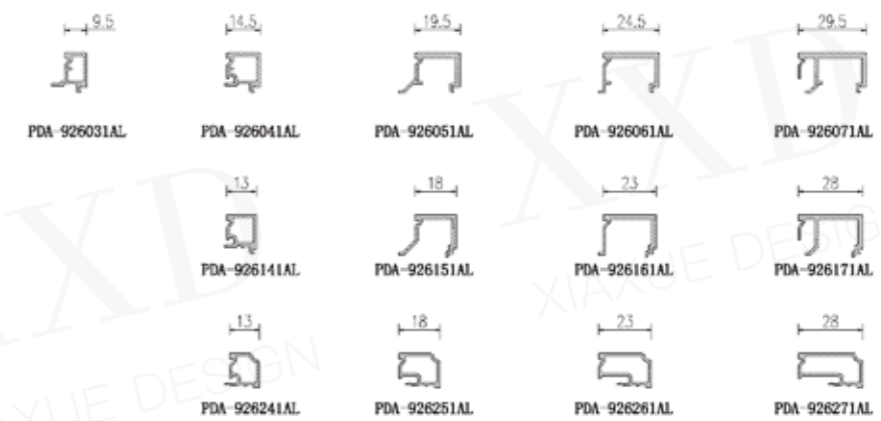
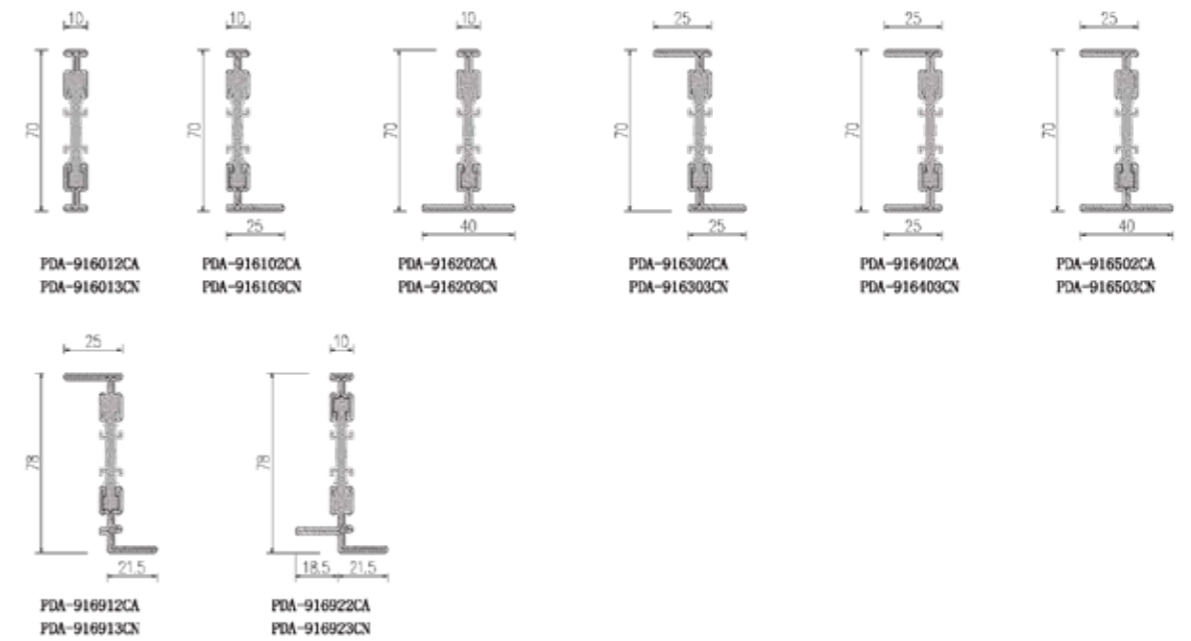


PDA - FINELINE 纤细钢制窗和隔断系统



Fineline-W系统的可视面优雅纤细，给人一种复古而又高雅的纤美视觉效果。适用于别墅等高端建筑，及一些老建筑的翻新。ISO FINELINE系统的Uf值（K值）最低可达到1.5W/(m²K)。

The visual surface of the FINELINE window system is elegant and delicate, presenting a retro and elegant visual beauty. Suitable for high-end buildings such as villas, and renovation of some old buildings. The Uf value (K value) of the ISO FINELINE system can be as low as 1.5 W/(m²K).



Fineline-W应用项目：东山别墅6号楼项目、天津团泊湖别墅区。

Application of Fineline-W: Dongshan Villa, Tianjin Tuanbo Lake Villa District.



门系列产品
Door Series Products

STAINLESS STEEL DOOR STYLE

不锈钢门



SIMPLE
AND
GENEROUS

不锈钢门色彩靓丽，永不褪色，坚固耐用。兼具美观性的同时又能起到防盗、防潮等作用。
Beautiful color and never fade, strong and durable. With aesthetic and anti-theft functions.



6.4.3条 疏散走道通向前室以及前室通向楼梯间的门应采用**乙级防火门**。

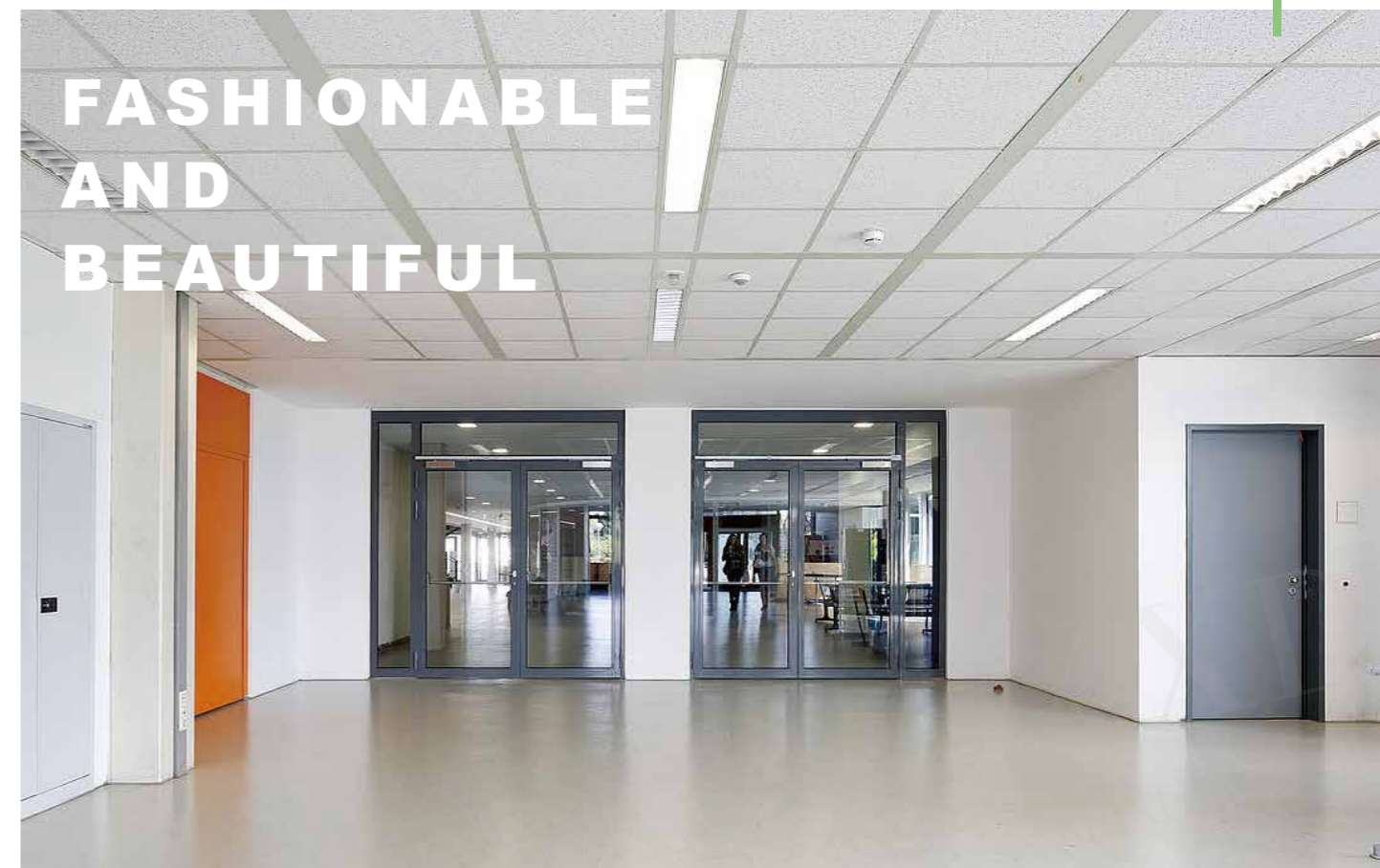
The door from emergency passageway to front hall or from front hall to the stair room should be fire and heat rated for at least 1.00 hour.

6.4.14条 避难走道的设置应符合下列规定：避难走道防火隔墙的耐火极限不应低于**3.00h**，楼板的耐火极限不应低于1.50h。

The fireproof endurance of the wall at emergency passageway should be at least 3.00 hours, and the endurance of the floor should be at least 1.50 hours.

6.1.3条 建筑外墙为不燃性墙体时，紧靠防火墙两侧的门、窗、洞口之间最近边缘的水平距离不应小于2.0m；采取设置**乙级防火窗**等防止火灾水平蔓延的措施时，该距离不限。

If the outer face of the building is non-combustible, the horizon distance from the doors and windows to the wall should be at least 2 meters. If the window's fire endurance is more than 1.00 hour, the distance limit can be ignored.



70FP 防火门应用项目：
北京恒大乙级防火门联窗项目、
国家开发银行深圳总部大厦A类
防火门、北京联想总部电梯厅乙
级防火门、青岛机场防火门、深
圳华润总部防火门、深圳华为防
防火门、上海国家电网防火门。

Application of 70FP: Evergrande Real Estate Group fireproof doors in Beijing, fireproof windows of Headquarters Building of China Development Bank, fireproof windows of Lenovo Group in Beijing, fireproof doors in Qingdao Airport, fireproof doors in Huarun Headquarter in Shenzhen, fireproof doors in HUAWEI in Shenzhen, fireproof doors in State Grid in Shanghai.



**GOOD PERFORMANCE
IN TRANSPARENCY,
MODERN.**

ENTRANCE DOOR



6.1.4条 建筑内的防火墙不宜设置在转角处,确需设置时,内转角两侧墙上的门、窗、洞口之间最近边缘的水平距离不应小于4.0m;采取设置**乙级防火窗**等防止火灾水平蔓延的措施时,该距离不限。

The firewall in the building should not be settled in the corner,if must, the distance from the inner corner to the doors and windows should be at least 4 meters;if the window's fire endurance is more than 1.00 hour,the distance limit can be ignored.

XIAXUE DESIGN



70-Plus

入口隐框门

7.3.6条 消防电梯井、机房与相邻电梯井、机房之间应设置耐火极限不低于**2.00h**的防火墙,隔墙上的门应采用甲级防火门。

Among the Fire elevator shafts and engine rooms,there should be fireproof walls,and fireproof doors (fire enduring \geq 1.50 hours).

XIAXUE DESIGN

Design50

PDA-design50

Design 50系统，外形简约、纤细坚固、极高的性价比，适用室内外没有断热保温要求的门及隔断。可实现C（E）类防火。

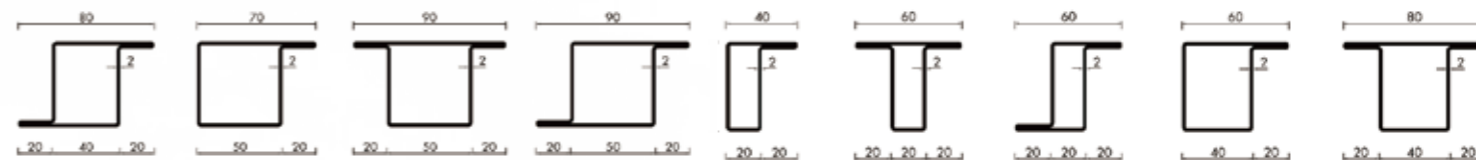
The Design 50 system is simple,slim,and extremely cost-effective. It is suitable for indoor and outdoor doors and partitions without thermal insulation requirements. Class C (E) fire protection can be achieved.

- | | |
|-----------------------|---|
| 1. 钢制框架，框架型材深度50mm | 1. Steel profiles,the door set is 50mm in depth |
| 2. 选用欧洲进口优质钢型材 | 2. Advanced colded steels imported from Europe |
| 3. 门扇侧边型材看面:90mm/70mm | 3. Sides' visual surface size,90mm/70mm |
| 4. 门扇底部型材看面: 90mm | 4. Top and bottom visual surface size,90mm |
| 5. 玻璃厚度: 10-28mm | 5. Glass size,10-28mm in depth |



Design 50 应用项目：天津机场T2航站楼、宝马中国防火玻璃隔断、国家电网世博园区办公楼防火门、南京青奥会议中心项目钢制隔断、长春龙嘉机场商铺防火玻璃隔断、中国宝武钢铁集团防火隔断。

Application of Design 50: Terminal T2 of Tianjin Airport,fireproof partition of BMW in China,Expo park building of the State Grid,Nanjing Youth Olympic Conference Center,fireproof partition of Changchun Longjia International Airport,BAO Steel Group.





5.1.2 疏散走道两侧的隔墙耐火完整性不应低于1.00h。

The wall on both sides of the emergency passageway should be fire-rated, and the endurance should be at least 1 hour.



55N

防火门

55N 防火门应用项目：上海迪士尼钢制窗、南京金融城钢制门、嘉定白金涟庭项目钢制双开门。

Application of 55N: steel windows of Shanghai Disneyland, steel door of Nanjing Financial Center, steel door of Jiading platinum court.

55N HIGH-STRENGTH STEEL DOORS AND WINDOWS

Suitable for building and shopping mall entrance doors

STRENGTH INCREASED COPLANAR DISLOCATION



55N 高强度钢制门窗、隔断系统型材采用多弯卡扣式设计，型材强度大大提高，适用于楼宇及商场入口门，同时可以根据建筑外幕墙风格改变玻璃位置，使幕墙与门窗到达共面或错位，可实现C类防火。

55N high-strength steel doors and windows,partition system profiles using multi-bent snap-type design,greatly enhancing the strength of the profile,suitable for building and shopping mall entrance doors,while changing the glass location according to the style of the building curtain wall,so that the curtain wall and doors and windows can achieve coplanar or dislocation. Class C fire protection can be achieved.

防火检测报告 FIRE DETECTION CERTIFICATE

70FP单开门 A类乙级60min防火报告



单开门3C证书

双开门3C证书

70FP双开门 A类乙级60min防火报告