



Beiyang[®] 北洋

For better acoustical comfort

BEIYANG dates back to 1996, when the first fiberglass ceiling were produced from here in China. Today the company is a global supplier of fiberglass/rockwool based ceiling tiles and functional tissues, with the focus on commercial and industrial interior acoustic system. BEIYANG maintains an ongoing concern about innovation and sustainable development to contribute to a better environment for people's living.

北洋建材是全球领先的住宅和商用新型节能建筑材料提供商；玻璃纤维吸声板、岩棉吸声板以及玻璃纤维贴面材料的权威制造商。北洋建材一直致力于通过提供创新型声学解决方案、引领市场变革和改善声学环境来推动社会的可持续发展。成立近20年以来，北洋建材一直专注该领域并不断推动产业革新。至2015年，北洋建材已经成为全亚洲唯一实现全工序自动化管理的玻纤、岩棉吸声板综合供应商。



Green Label

Your portal for Green Label applications & directory of products

01

ABOUT US 企业简介



- 01 我们的使命
- 02 目录
- 04 服务承诺

- 01 Our mission
- 02 Catalogue
- 04 Service commitment

06

PERFORMANCE 性能介绍



- 06 吸声性能
- 10 防火性能
- 12 防潮抗下陷
- 14 质地轻盈
- 15 隔热保温
- 16 反光度
- 17 清洁卫生
- 18 可持续性

- 06 Acoustic Performance
- 10 Non-combustible Performance
- 12 No-Sagging
- 14 Light Weight
- 15 Insulation
- 16 Light Reflectance
- 17 Cleanability
- 18 Sustainability

22

BEIYANG CEILING SYSTEM 北洋天花吊顶系统



- 22 北洋拓仕™ 玻纤板系统
- 26 拓境™ 玻纤板系统
- 34 北洋科丽™ 实贴板系统
- 36 北洋洁仕™ 医疗系统专用板材
- 38 北洋雅科™ 功能性玻纤板系统
- 42 北洋安珀™ 岩棉板系统
- 44 北洋雅尚™ 悬挂系统

- 22 Beiyang Teus System
- 26 Beiyang Technic System
- 34 Beiyang Echo-free Ceiling System
- 36 Beiyang Cleanguard™ System
- 38 Beiyang Artech Ceiling System
- 42 Beiyang Amber System(Rockwool)
- 44 Beiyang Artisan Baffle System

52

APPLICATION 应用案例



- | | |
|---------|---------------------------|
| 54 办公室 | 54 Office |
| 60 医疗系统 | 60 Health care facilities |
| 66 学校 | 66 School |
| 72 案例集 | 72 Case list |

74

LIST OF PRODUCTS AND GRID 产品及配件资料索引



- | | |
|----------|--------------------------|
| 74 产品一览表 | 74 Products Summary List |
| 76 龙骨系统 | 76 Grid System |

content
目录

BEIYANG SERVICE COMMITMENT

北洋“一站式”专业服务承诺

项目咨询

SPECIALIZED

从项目初期咨询开始介入，针对项目特点提供专业化的声学建议。

Starts with specific consulting from the very beginning of each project.

1

提案设计

PLANNING

资深设计师团队，为您的项目提供兼具声学
与美学考量的深化设计方案。

Professional planning from experienced
architects team.

2

技术支持

SUPPORT

全球化的技术支持团队，全程确保快速
响应服务。

Global technical support team for
quickest response.

3

售后服务

SERVICE

产品专业质保服务使您使用无忧。

Professional quality warranty throughout
product lifecycle.

4



房间的声学性能由以下2个主要因素决定

What is acoustic performance



Sound absorption 吸声

声音在房间内部的表现。

Sound inside the room.



Sound insulation 隔声

能够从一个房间传播到另一个房间的声音能量。

The sound energy from one room to another room



ABOUT ACOUSTIC 吸声性能

Acoustic performance:

Acoustic performance is very important to the people who is working or living in it.

Nowdays there is growing awareness among people and architects about the importance of design in a healing environment. People also care about the acoustic material which should be healthy and earth-eco when interior using.

声学性能：

声学性能是指声音的物理性质，它无时无刻不在影响着我们的日常生活。当人体处于有害的噪音环境时，声学性能较差的室内装修材料将无助于减弱噪音对人体健康造成的负面影响，如对听力的损伤、降低工作效率、注意力不集中以及其他与压力有关的症状。

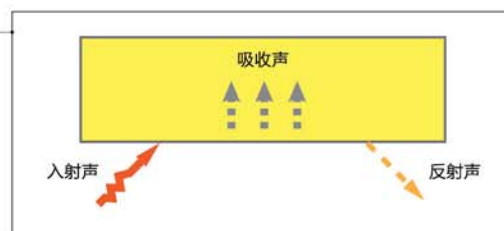
Sound Absorption 吸声

Sound absorption:

According to the recent research report, it suggests two general reasons why excessive noise happens. First, the noise sources are numerous. Second, the surface in interior space is usually hard and reflects sound rather than absorbs it.

吸声:

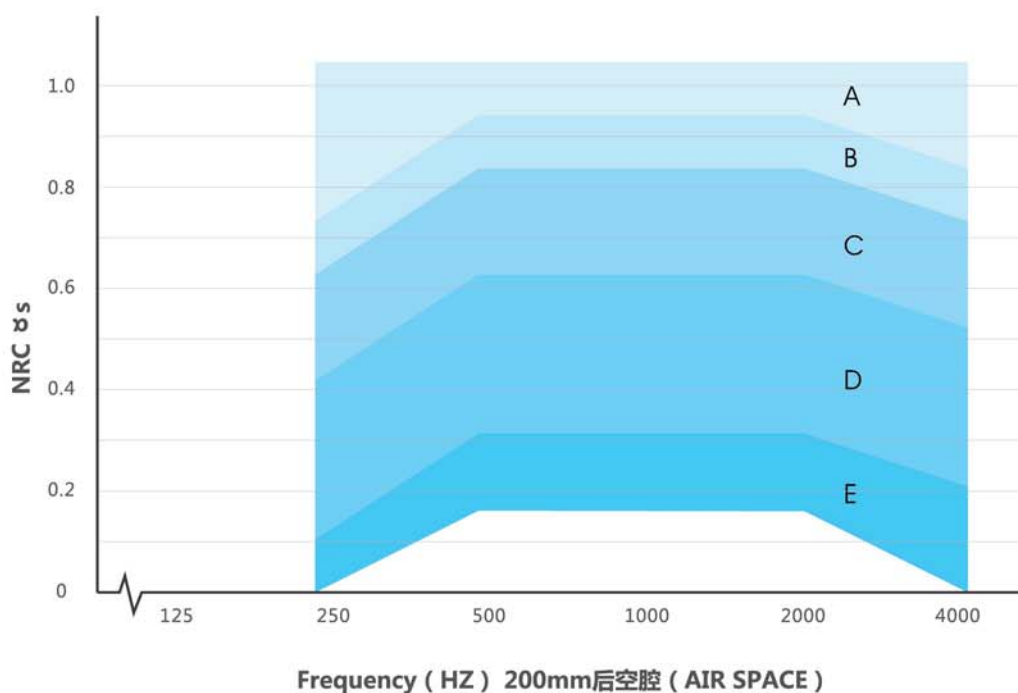
声波通过某种介质或射到某介质表面时，声能减少并转换为其他能量的过程称为吸声。玻纤是一种优良的人造无机纤维，具有不可替代的吸声和保温性能。北洋玻纤板能够很好的吸收房间内的回声，达到室内最佳的混响效果（也就是说达到室内最佳的语音清晰度）。已经成为越来越多的声学设计师首选的室内吊顶材料。



Acoustic level 吸声等级

Sound Absorption Class:
International Standard
(EN ISO 11654) Class A

对应指定的空腔深度下，
材料的吸声等级可以分为A
级~E级，A级为最高（专
业）级别的吸声性能。
北洋玻纤板经过国内外权
威测试机构检测，结果达
到最高等级A级。



Sound Insulation 隔声

Sound Insulation

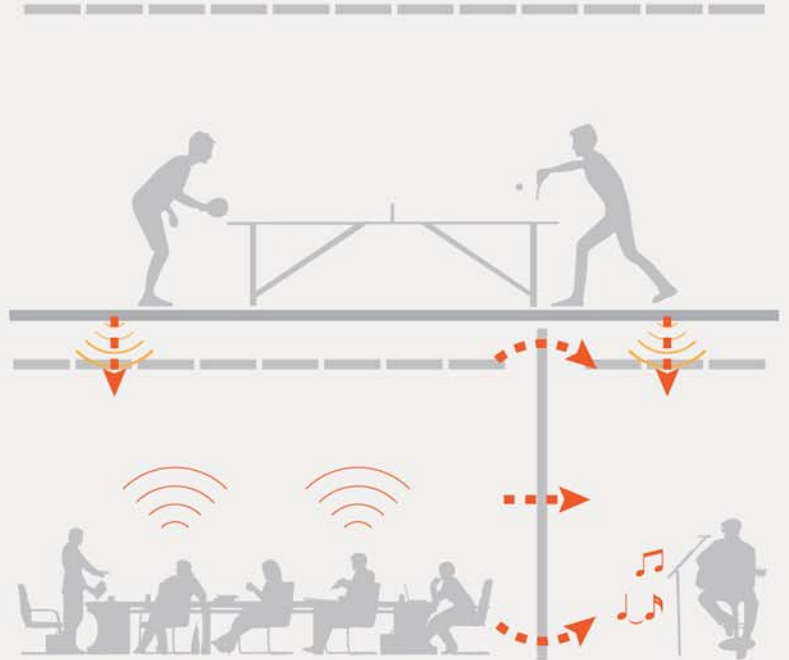
In a specific space, Sound insulation means stopping sound going through space to another. Sound insulation performance will determine the noise people can feel.

Beiyang acoustic panel through its special characteristics and structural design, and can help to limit the sound transmission between rooms.

隔声：

在特定空间内，阻挡声音穿透至另一空间的程度的性能称为隔声性能。隔声性能的优劣决定了此空间内人耳所感知的噪声大小。

北洋玻纤板及其复合产品通过其特殊的性能和结构设计，可以帮助限制房间之间的声音传播。



Acoustic Advantage 声学优势

	石膏顶 Drywall Ceiling	矿棉板吊顶 Mineral Fiber Continuous Ceiling	北洋玻纤吊顶 Beiyang Fiberglass Continuous Ceiling
吸音性能 NRC	0.05	0.5	高达0.9
混响时间 Reverberation Time	9.66 (sec)	0.64 (sec)	0.53 (sec)
降噪量 Noise Reduction	较差	一般	优秀

北洋玻纤板可达到传统吊顶材料所无法比拟的专业级声学效果

Beiyang fiberglass ceiling system can provide excellent acoustic performance comparing to traditional ceiling materials.



NON-COMBUSTIBLE PERFORMANCE 不燃性能

Non-combustible performance:

Burning behaviour of building materials is the burns or fire when all the physical and chemical changes that occur, this performance by the surface ignition and flame propagation, heat, smoke, charring, weight loss, measured and characteristics of toxic products. China national standard GB8624-2012 building materials combustion performance is divided into several levels.

CLASS A : Non-combustible building materials
CLASS B1: Difficult-flammability building materials
CLASS B2: Combustible building materials
CLASS B3: Flammable building materials

防火性能:

建筑材料的燃烧性能是指其燃烧或遇火时所发生的一切物理和化学变化，这项性能由材料表面的着火性和火焰传播性、发热、发烟、炭化、失重，以及毒性生成物的产生等特性来衡量。我国国家标准 GB8624-2012将建筑材料的燃烧性能分为以下几种等级。

A级：不燃性建筑材料
B1级：难燃性建筑材料
B2级：可燃性建筑材料
B3级：易燃性建筑材料



Beiyang fiberglass ceiling tiles is class A level of non-combustible performance which is tested in chinese/SGS authority labs

北洋玻纤板从基板到装饰面层经 国家权威机构检测，防火等级均达到A2级（不燃级）。



NO-SAGGING 防潮抗下陷

No-sagging:

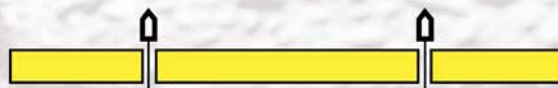
Glass wool has a most excellent performance in moisture comparing to other acoustic materials. BEIYANG fiberglass panel does not absorb water from the surrounding air. The system is very stable and is rated RH95 which means no warping at 95% air humidity with 30°C.



传统天花吊顶

防潮抗下陷性能:

传统吊顶（矿棉板）在经历了长时间安装后，极易吸收空气中的水分而导致板面变形、下陷。玻纤本身是一种及其稳定的材料。它不会吸收空气中的水分，具有极佳的防潮以及抗下陷性能。北洋玻纤板的基材采用90%玻璃纤维干式合成，纤维长且排列紧密。实验证明，在室内温度30°C以及相对湿度95%情况下尺寸稳定，长时间安装后也不会变形。



北洋吸声天花吊顶





LIGHT WEIGHT 质地轻盈

Light Weight:

Light-weight is another natural character of glasswool. Beiyang acoustic system is safe and stable which is very important to earthquake-prone areas.

质地轻盈:

北洋玻纤板质地轻盈，自重仅为传统矿棉及石膏吊顶的1/2以下，整个天花吊顶系统安全、稳定。尤其在地震等自然灾害多发地区，北洋玻纤板能更好的保护周围人员的安全，减少财产损失。



INSULATION 隔热保温

Insulation:

Glasswool is a perfect material for insulation. Cold and heat can be blocked with BEIYANG ceiling systems which create a comfortable interior space for you.

隔热保温:

玻璃纤维原材料优越的隔热保温性能使得北洋玻纤板可以有效的阻隔室外的炎热或寒冷。为室内的居住者提供舒适的自然环境。



REFLECTANCE 反光度

Reflectance:

BEIYANG acoustic tile has a general light reflectance of 85%,and can be up to 90% with BEIYANG hillight painting.

反光度:

北洋玻纤板具有均质表面，其特殊的白色涂层可使板材反光率达到85%以上。部分特殊板材的反光率可高达90%以上。在达到柔和室内光线作用的同时，可以有效提升室内亮度，减少照明浪费及能耗。

For better acoustic comfort



CLEANABILITY 清洁卫生

Cleanability:

Cleanability is very important to ceiling systems. Vacuum or wet wiping cleaning is recommended methods of cleaning BEIYANG acoustic systems.

清洁卫生:

北洋玻纤板的大多数表面均可用软质抹布或真空吸尘器进行清洗，这大大延长了天花系统的使用寿命并极大的降低了维护成本。北洋玻纤板的表面还具有特殊的防尘涂层，可以有效抑制空气中的灰尘在天花板表面的聚集。



SUSTAINABILITY
可持续性

可持续发展

近20年来，北洋一直致力于在生产产品的同时实现可持续发展。北洋人认为，实现环境、人文及经济的充分协调才能实现事业的可持续发展。为此，北洋努力实践创新，从原材料的采集到成品的完成，严格遵守绿色环保、可循环使用原则，使北洋所有产品均符合ISO14001/ISO9001 标准中有关环保和质量控制的严格要求。



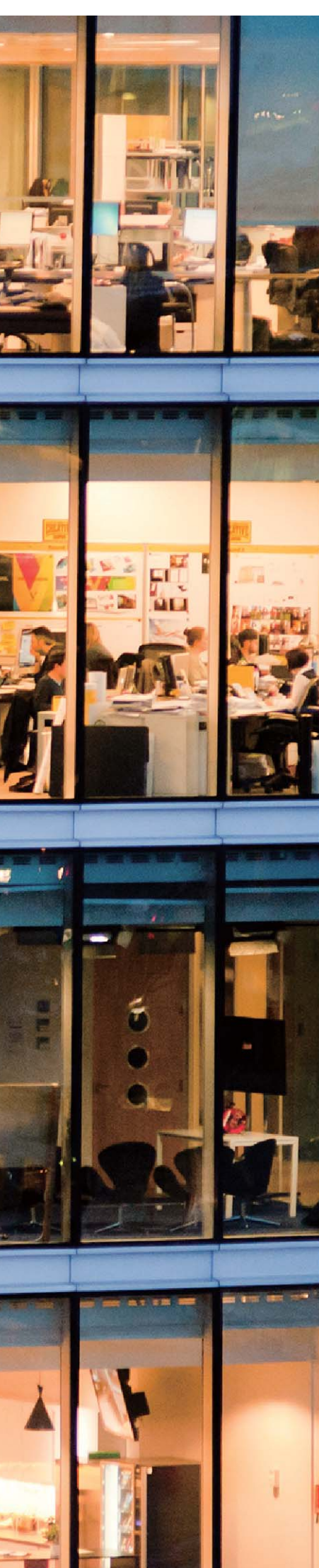


SUSTAINABILITY

Beiyang clearly contribute to the social development and the protection of the environment, we make efforts to practice the concept of green environment solution into the management of company. Beiyang's products ,with environmental friendly green advantage, as the representative of the interests of customer's standpoint, providing reliable, safe, environmental friendly support for indoor sound absorption . And Beiyang will supply these products, for the social construction of friendly environmental, to protect the global environment, and eventually contribute to achieve sustainable development of the society.



Beiyang Ceiling System
北洋天花吊顶系统



Beiyang Teus System
北洋拓仕™

明架系列

22

Beiyang
Teus System

Beiyang Technic A System
拓境™ A

Beiyang Technic D System
拓境™ D

Beiyang Technic B System
拓境™ B

Beiyang Technic E System
拓境™ E

暗架系列

26

Beiyang
Technic System

Beiyang Echo-free Ceiling System
北洋科丽™ 实贴天花系统

实贴系列

34

Beiyang
Echo-free System

Beiyang Cleanguard™ System
北洋洁仕™ 高洁净玻纤天花系统

36

Beiyang
Cleanguard System

Beiyang Artech-Black Ceiling System
北洋雅科™ 黑色天花系统

Beiyang Artech-Hillight System
北洋雅科™ 高反光天花系统

Beiyang Artech-Conbi System
北洋雅科™ 复合天花系统

功能性天花

38

Beiyang
Artech System

Beiyang Amber System(Rockwool)
北洋琥珀™ 岩棉天花系统

42

Beiyang
Amber System

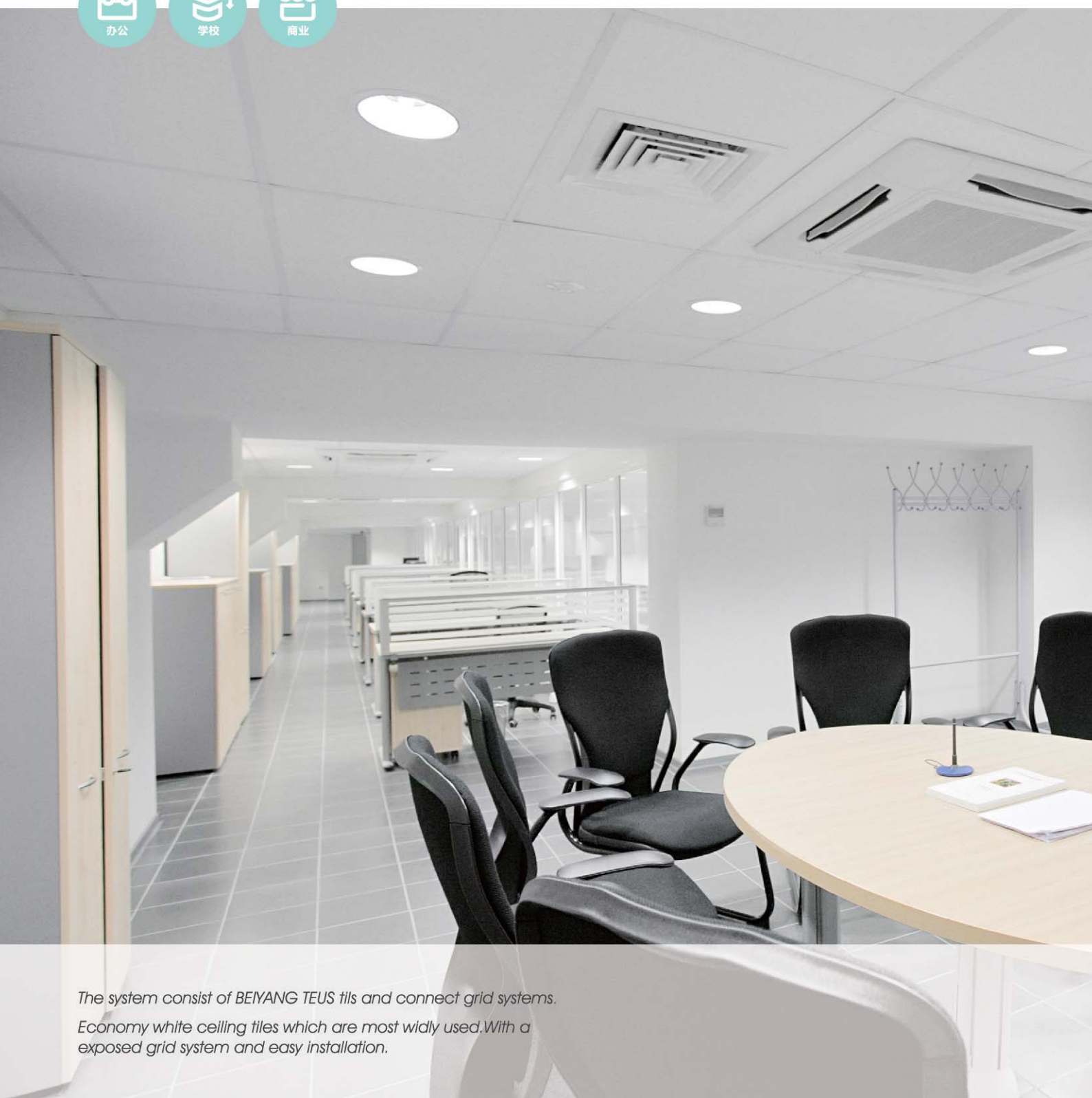
Beiyang Artisan-Vertical Baffle System
北洋雅尚™ 垂直挂片系统

Beiyang Artisan Baffle System
北洋雅尚™ 水平吊片系统

悬挂系列

44

Beiyang
Artisan System



*The system consist of BEIYANG TEUS tils and connect grid systems.
Economy white ceiling tiles which are most widly used.With a
exposed grid system and easy installation.*

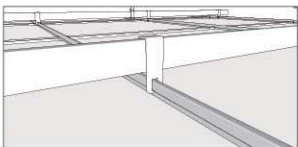
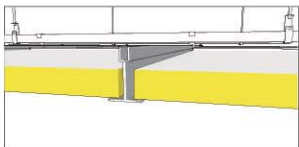
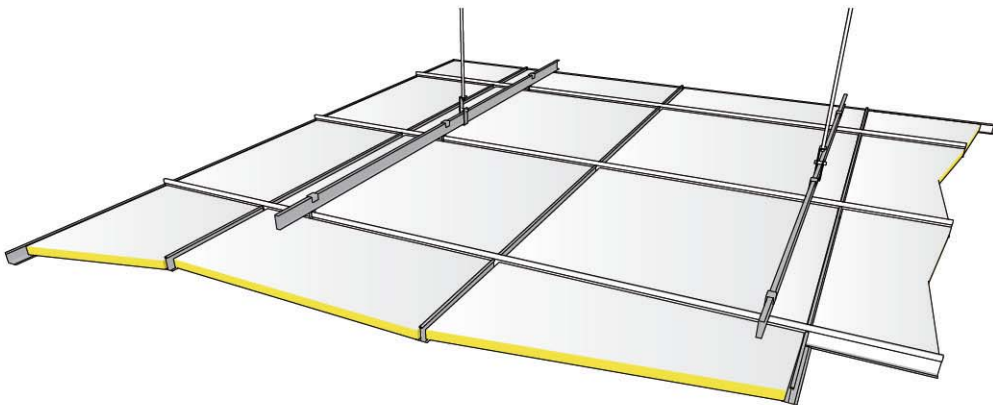
整个安装系统由“北洋”牌天花吊顶板和龙骨组成。
使用最广泛的经济型白色天花，明架安装，操作简便。

Beiyang Teus System 北洋拓仕™玻纤板系统



INSTALLATION

龙骨安装



SYSTEM RANGE

尺寸规格

Dimensions can be customized
尺寸可根据客户要求进行调整

长 (mm)	300	600	1200	1800	2400
宽 (mm)					
300					
600					
厚度	15/20	15/20	15/20	20/25	20/25





NRC 声学性能

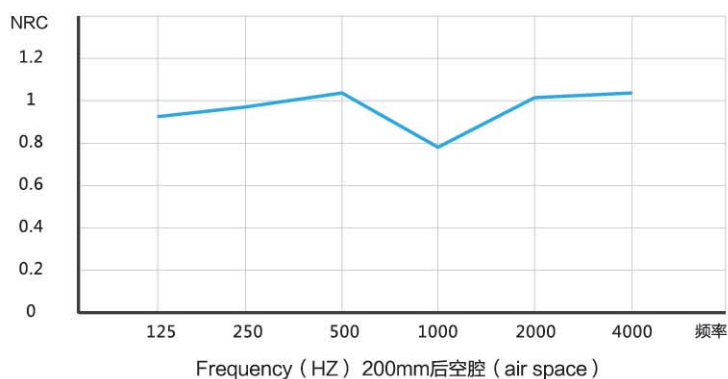
吸声曲线

NRC=0.9

检测机构:

Tongji University

上海同济大学



产品	厚度 (MM)	频率(HZ)						NRC	吸声等级
		125	250	500	1K	2K	4K		
北洋拓仕™	15	0.94	0.98	1.1	0.79	1.02	1.10	0.9	A



Acoustic 吸声性能

Sound Absorption test according to ISO 354:2003

(吸声测试根据: ISO 354:2003)

NRC=0.9



Fire-resistant 不燃性能

Class A2-s1,d0, non-combustible according to EN13501-1:2007 tested by SGS

A2级, 国家权威部门检测 (GB8624-2012)



Humidity 抗潮抗下陷

Dimensionally stable with RH up to 95% at 30°C no sagging, wrapping or delaminating

在室内温度30°C以及相对湿度是95%以下, 尺寸稳定。



Environmental 环保

Green label material according to ASTM D5116-06 tested by PSB Test in Singapore

成品和包装可再循环使用。

Beiyang Technic A System 拓境™ A 玻纤板系统



Suitable for various of indoor environments. BEIYANG Technic A has a concealed grid and can be easily opened.
The ceiling system consists of BEIYANG high density glasswool and sealed edge.



学校



办公



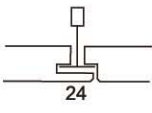
商业

可广泛采用的暗架安装系统，龙骨隐藏，可拆卸。
系统采用高密度玻纤板为基材，四周封边。

SYSTEM RANGE

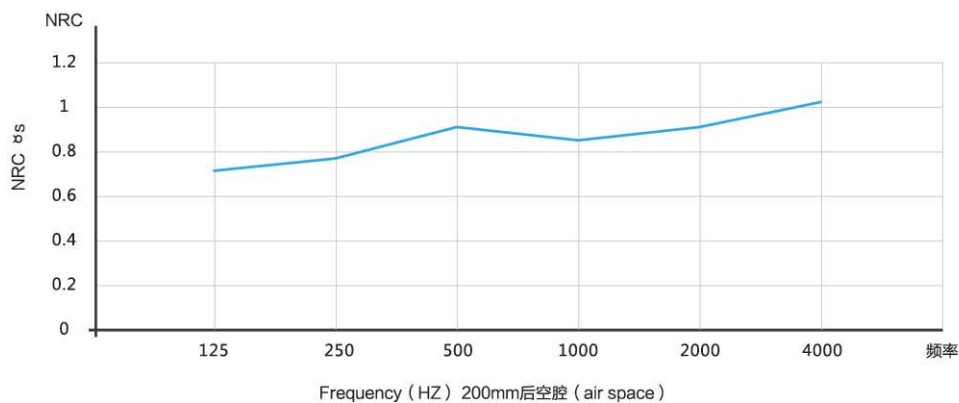
尺寸规格

Dimensions can be customized
尺寸可根据客户要求进行调整

边角形式	长 (mm)					
	宽 (mm)	300	600	1200	1800	2400
 24	300		•	•		
	600	•	•	•	•	
	厚度	20/25	20/25	20/25	25	40

NRC

声学性能



吸声曲线

检测机构:
Tongji University
上海同济大学

NRC=0.9



Acoustic 吸声性能

Sound Absorption test according to ISO 354:2003
(吸声测试根据: ISO 354:2003)

NRC=0.9



Fire-resistant 不燃性能

Class O, non-combustible according to BS476 Part 6&7 tested by PSB Test in Singapore
A2级, 国家权威部门检测 (GB8624-2012)



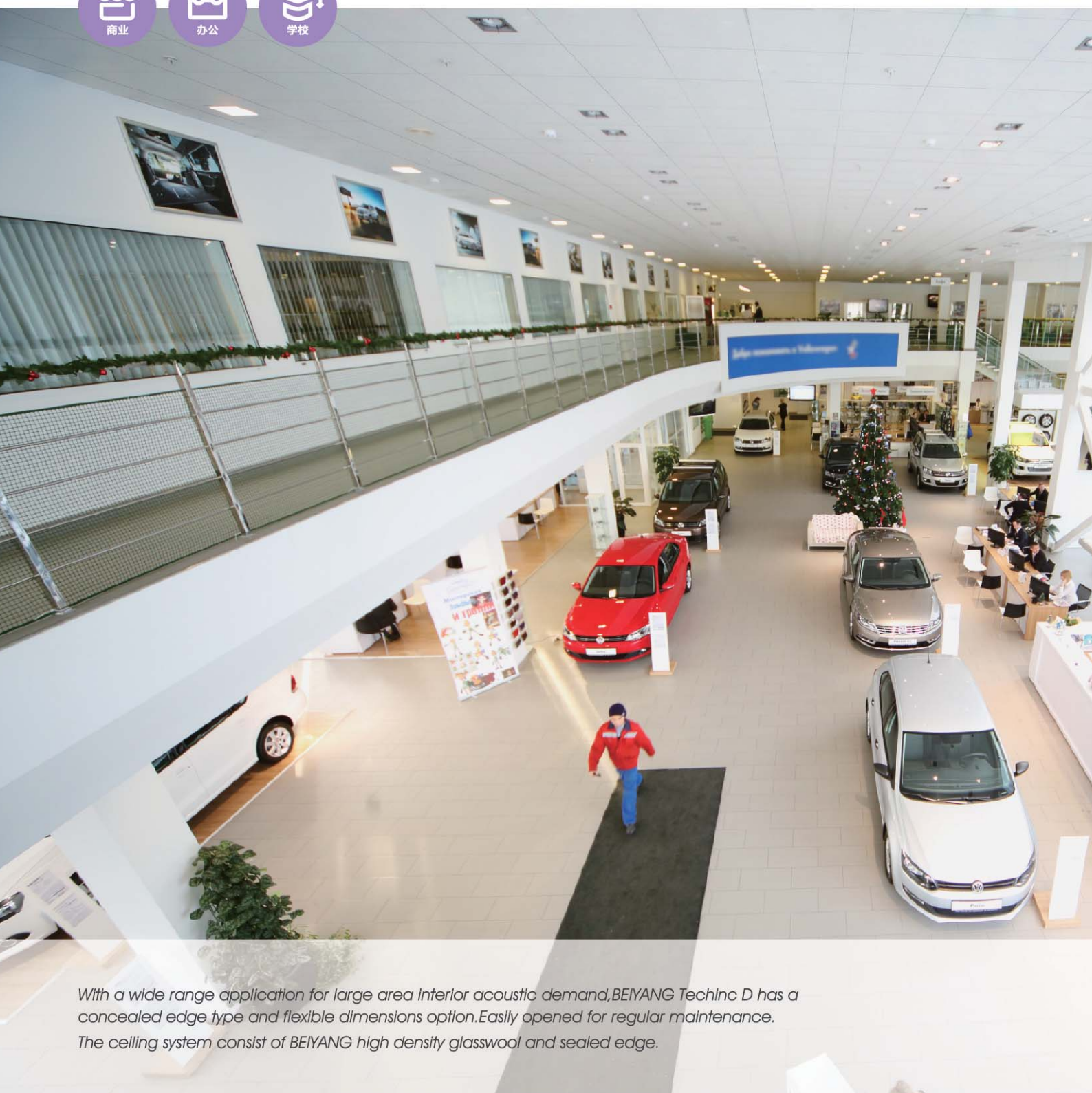
Humidity 抗潮抗下陷

Dimensionally stable with RH up to 95% at 30°C no sagging, wrapping or delaminating
在室内温度30℃以及相对湿度是95%以下, 尺寸稳定。



Environmental 环保

Green label material according to ASTM D5116-06 tested by PSB Test in Singapore
成品和包装可再循环使用。



With a wide range application for large area interior acoustic demand, BEIYANG Techinc D has a concealed edge type and flexible dimensions option. Easily opened for regular maintenance. The ceiling system consist of BEIYANG high density glasswool and sealed edge.

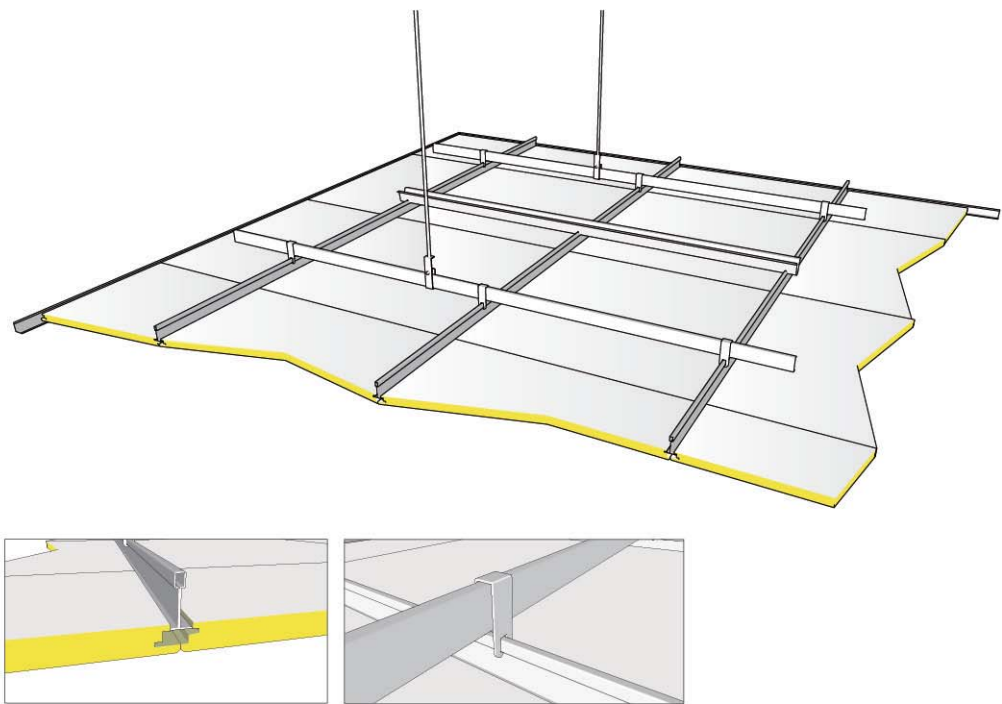
广泛适用于有较高吸声要求的大面积的室内环境，龙骨隐藏，尺寸灵活多样。
板材单片可开启，易于拆卸，保养方便。系统采用高密度玻纤板为基材，四周封边。

Beiyang Technic D System 拓境™ D 玻纤板系统



INSTALLATION

龙骨安装



SYSTEM RANGE

尺寸规格

Dimensions can be customized
尺寸可根据客户要求进行调整

长 (mm)	300	600	1200	1800	2400
宽 (mm)					
300			•		
600		•	•	•	•
厚度	22/25	22/25	22/25	25	40

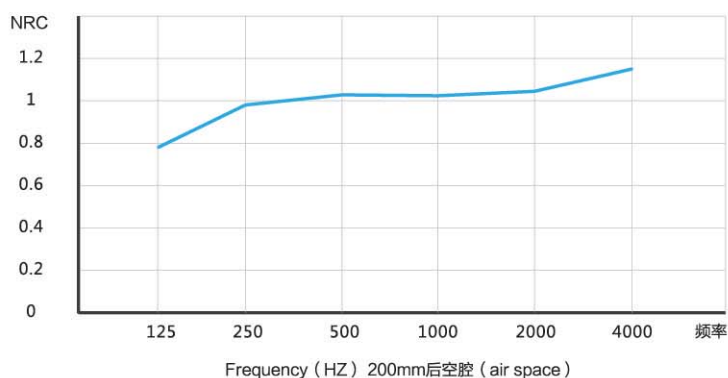


NRC 声学性能

检测机构：
Tongji University
上海同济大学

吸声曲线

NRC=0.95



产品	厚度 (MM)	频率(HZ)						NRC	吸声等级
		125	250	500	1K	2K	4K		
北洋拓璃™D	40	0.79	0.99	1.03	1.03	1.07	1.15	0.95	A



Acoustic 吸声性能

Sound Absorption test according to ISO 354:2003

(吸声测试根据: ISO 354:2003)

NRC=0.95



Fire-resistant 不燃性能

Class A2-s1,d0 ,non-combustible according to EN13501-1:2007 tested by SGS

A2级, 国家权威部门检测 (GB8624-2012)



Humidity 抗潮抗下陷

Dimensionally stable with RH up to 95% at 30℃ no sagging, wrapping or delaminating

在室内温度30℃以及相对湿度是95%以下, 尺寸稳定。



Environmental 环保

Green label material according to ASTM D5116-06 tested by PSB Test in Singapore

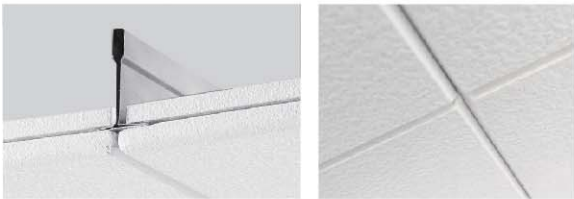
成品和包装可再循环使用。



Beiyang Technic B System 拓境™ B 玻纤板系统

The system consist of Beiyang Technic B tiles,which have a core of high density glass wool for sound absorb demanding enviroments.
The grid is concealed,and the tiles can not be opened.

系统采用高密度玻纤板为基材，广泛适用于有较高吸声要求的室内环境，龙骨隐藏，尺寸灵活多样。但不可拆卸。



SYSTEM RANGE 尺寸规格

长 (mm)	300	600	1200	1800	2400
宽 (mm)					
300					
600					
厚度	20/25	20/25	20/25	25/30	40

Dimensions can be customized
尺寸可根据客户要求进行调整

PERFORMANCE 性能



Acoustic 吸声性能
Sound Absorption test according to ISO 354:2003
(吸声测试根据: ISO 354:2003)

NRC=0.9



Fire-resistant 不燃性能
Class A2-s1,d0 ,non-combustible according to EN13501-1:2007 tested by SGS
A2级，国家权威部门检测（GB8624-2012）



Humidity 抗潮抗下陷
Dimensionally stable with RH up to 95% at 30 C. no sagging, wrapping or delaminating
在室内温度30℃以及相对湿度是95%以下，尺寸稳定。



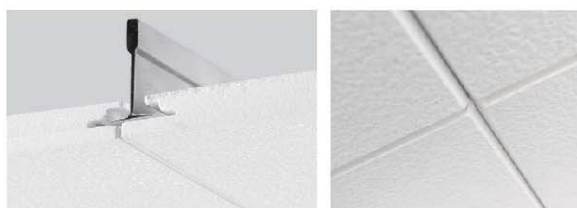
Environmental 环保
Green label material according to ASTM D5116-06 tested by PSB Test in Singapore
成品和包装可再循环使用。

Beiyang Technic E System 拓境™ E 玻纤板系统

Beiyang Technic E is an unique sound absorbing ceiling system which has a "floating" visual effect after installation.

The ceiling system consist of BEIYANG high density glasswool and sealed edge. The tiles can be opened easily and varies of dimension options.

北洋拓境E天花板系统是一种具有“漂浮感”独特视觉效果的安装系统。采用高密度玻纤板为基材，四周封边。易开启且尺寸多选。



SYSTEM RANGE 尺寸规格

长 (mm) 宽 (mm)	300	600	1200	1800	2400
300			•		
600		•	•	•	
厚度	20/25	20/25	20/25	25	40

Dimensions can be customized
尺寸可根据客户要求进行调整

PERFORMANCE 性能



Acoustic 吸声性能

Sound Absorption test according to ISO 354:2003
(吸声测试根据: ISO 354:2003)

NRC=0.9



Fire-resistant 不燃性能

Class A2-s1,d0 ,non-combustible according to
EN13501-1:2007 tested by SGS
A2级, 国家权威部门检测 (GB8624-2012)



Humidity 抗潮抗下陷

Dimensionally stable with RH up to 95% at 30°C no sagging,
wrapping or delaminating
在室内温度30℃以及相对湿度是95%以下, 尺寸稳定。



Environmental 环保

Green label material according to ASTM D5116-06
tested by PSB Test in Singapore
成品和包装可再循环使用。



办公



学校

Beiyang Echo-free Ceiling System 北洋科丽™实贴板系统



There is limit overall depth of system requirement of some places. The tiles are bonded to the soffit surface edge-to-edge. Beiyang Echo-free Ceiling System are manufactured by high-density glasswool with a bevel edge image.



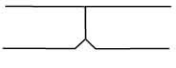
在一些室内条件有特殊要求的，例如层高较低的场所，我们需要使用可直接贴于顶层的吸声材料。

北洋科丽™系列实贴型天花系统采用高密度玻纤板为基材，板边进行倒角处理，采用连续的安装方式把胶水涂于板后黏贴于顶层，既美观又能达到很好的吸声效果。

SYSTEM RANGE

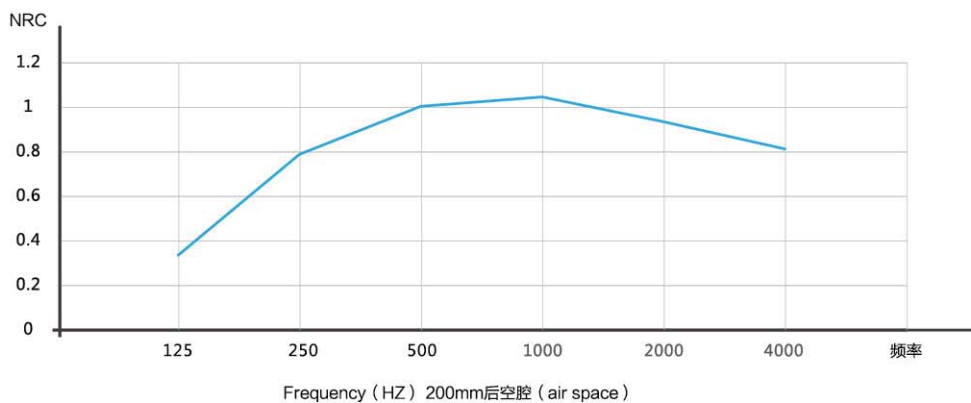
尺寸规格

Dimensions can be customized
尺寸可根据客户要求进行调整

边角形式	长 (mm)					
	宽 (mm)	300	600	1200	1800	2400
	300	•	•	•		
	600		•	•	•	•
	厚度	30/40	30/40	30/40	30/40	30/40

NRC

声学性能



吸声曲线

检测机构:
Tongji University
上海同济大学

NRC=0.9



Acoustic 吸声性能

Sound Absorption test according to ISO 354:2003

(吸声测试根据: ISO 354:2003)

NRC=0.9



Fire-resistant 不燃性能

Class A2-s1,d0, non-combustible according to EN13501-1:2007 tested by SGS

A2级, 国家权威部门检测 (GB8624-2012)



Humidity 抗潮抗下陷

Dimensionally stable with RH up to 95% at 30°C no sagging, wrapping or delaminating

在室内温度30℃以及相对湿度是95%以下, 尺寸稳定。



Environmental 环保

Green label material according to ASTM D5116-06 tested by PSB Test in Singapore

成品和包装可再循环使用。

Beiyang Cleanguard™ System 北洋洁仕™ 高洁净玻纤天花系统



BEIYANG Cleanguard™ ceiling system is intended for environments where disinfection and cleaning is required on a regular basis.

The system consist of Belyang Cleanguard tiles which have a core of high density fiberglass, edges primed and back side with glass tissue.

The tiles should be secured to the grid with impact resistance to withstand pressure during cleaning.



北洋洁仕™高洁净玻纤天花系统适用于对抗菌和清洁有较高要求的室内。

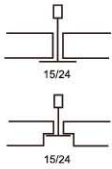
板材采用高密度玻纤板制成，四周封边，背面为玻纤毡。

需配合使用能抗冲击的龙骨以便保证清洁时系统稳定。

SYSTEM RANGE

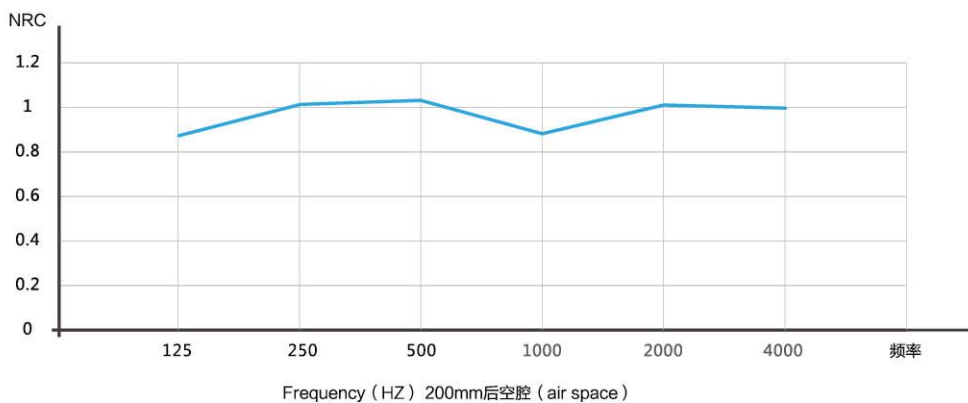
尺寸规格

Dimensions can be customized
尺寸可根据客户要求进行调整

边角形式	长 (mm)					
	宽 (mm)	300	600	1200	1800	2400
	300					
	600					
	厚度	20/25	20/25	20/25	25/30	40

NRC

声学性能



吸声曲线

检测机构:
Tongji University
上海同济大学

NRC=0.9



Acoustic 吸声性能

Sound Absorption test according to ISO 354:2003
(吸声测试根据: ISO 354:2003)

NRC=0.9



Fire-resistant 不燃性能

Class A2-s1,d0, non-combustible according to EN13501-1:2007 tested by SGS
A2级, 国家权威部门检测 (GB8624-2012)



Humidity 抗潮抗下陷

Dimensionally stable with RH up to 95% at 30°C no sagging, wrapping or delaminating
在室内温度30℃以及相对湿度是95%以下, 尺寸稳定。



Environmental 环保

Green label material according to ASTM D5116-06 tested by PSB Test in Singapore
成品和包装可再循环使用。

Beiyang Artech-Black Ceiling System 北洋雅科™ 黑色天花系统



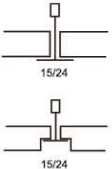
Beiyang Artech-Black Ceiling System significantly improve the acoustic environment. In addition, they satisfy dark and low light reflection requirements and with full edge type options. The ceiling system consist of BEIYANG black glasswool tiles combined with black exposed grid.

北洋雅科™黑色天花系统能显著改善您的室内声学环境。
在满足室内私密和低反射率要求的前提下提供多种边角形式。
系统采用北洋黑色天花板搭配黑色明架龙骨安装而成。

SYSTEM RANGE

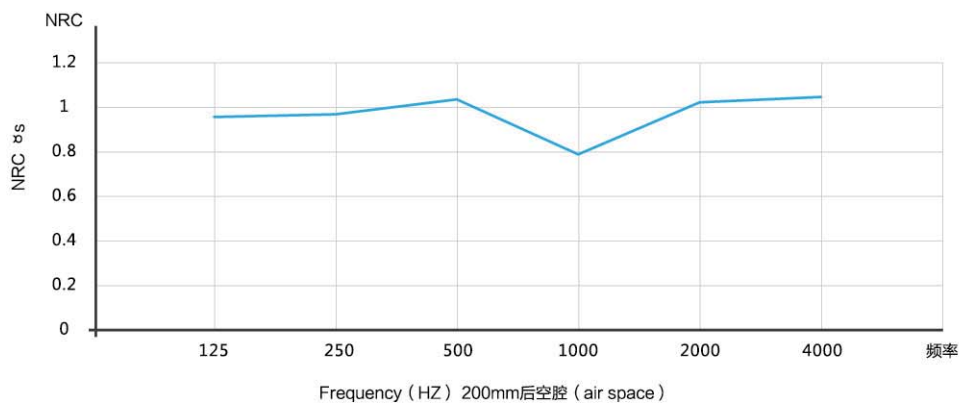
尺寸规格

Dimensions can be customized
尺寸可根据客户要求进行调整

边角形式	长 (mm)					
	宽 (mm)	300	600	1200	1800	2400
	300					
	600					
	厚度	15/20	15/20	15/20	25/30	40

NRC

声学性能



吸声曲线

检测机构:
Tongji University
上海同济大学

NRC=0.9



Acoustic 吸声性能

Sound Absorption test according to ISO 354:2003
(吸声测试根据: ISO 354:2003)

NRC=0.9



Fire-resistant 不燃性能

Class A2-s1,d0, non-combustible according to EN13501-1:2007 tested by SGS
A2级, 国家权威部门检测 (GB8624-2012)



Humidity 抗潮抗下陷

Dimensionally stable with RH up to 95% at 30°C no sagging, wrapping or delaminating
在室内温度30°C以及相对湿度是95%以下, 尺寸稳定。



Environmental 环保

Green label material according to ASTM D5116-06 tested by PSB Test in Singapore
成品和包装可再循环使用。

Beiyang Artech-Hilight System

北洋雅科™ 高反光天花系统

Beiyang Artech-Hilight System improve comfort and energy consumption in the office space by 90% light reflection acoustic ceiling systems. When both light and sound become more natural and eco for us, we will have a more comfort experience.

北洋雅科™高反光天花系统采用北洋特有的高反光特殊涂层，可使天花板表面反光度达到90%以上，可显著提高室内明亮度并减少能源消耗。
使室内灯光和声学环境变得柔和且环保，给使用者带来更加舒适的室内环境体验。



SYSTEM RANGE

尺寸规格

长 (mm)	300	600	1200	1800	2400
宽 (mm)					
300					
600					
厚度	15/20	15/20	15/20	25/30	40

Dimensions can be customized
尺寸可根据客户要求进行调整

PERFORMANCE

性能



Acoustic 吸声性能
Sound Absorption test according to ISO 354:2003
(吸声测试根据: ISO 354:2003)

NRC=0.9



Fire-resistant 不燃性能
Class A2-s1,d0 ,non-combustible according to EN13501-1:2007 tested by SGS
A2级，国家权威部门检测（GB8624-2012）



Humidity 抗潮抗下陷
Dimensionally stable with RH up to 95% at 30 C. no sagging, wrapping or delaminating
在室内温度30℃以及相对湿度是95%以下，尺寸稳定。



Reflection Rate 反光率
Reflection rate up to 90%.
反光率高达90%，可有效提升室内亮度，节能减耗。



Beiyang Artech-Conbi System 北洋雅科™复合天花系统

Beiyang Artech-Conbi System is used for high requirement of both sound insulation and absorbing to achieve the privacy needed.

The ceiling system consist of BEIYANG high density glasswool combined with high quality gypsum board at back side.Exposed grid recommended.

北洋雅科™复合天花系广泛应用于对隔声和吸声都有较高要求的室内,较好的保护您室内活动的私密性。

系统采用高密度玻纤板背面复合优质石膏板。采用明架龙骨安装。



SYSTEM RANGE 尺寸规格

长 (mm) 宽 (mm)	300	600	1200	1800	2400
300					
600					
厚度	27/32	27/32	27/32	27/32	27/32

Dimensions can be customized
尺寸可根据客户要求进行调整

PERFORMANCE 性能



Acoustic 吸声性能

Sound Absorption test according to ISO 354:2003
(吸声测试根据: ISO 354:2003)

NRC=0.9



Fire-resistant 不燃性能

Class A2-s1,d0 ,non-combustible according to EN13501-1:2007 tested by SGS
A2级, 国家权威部门检测 (GB8624-2012)



Humidity 抗潮抗下陷

Dimensionally stable with RH up to 95% at 30 °C no sagging, wrapping or delaminating
在室内温度30℃以及相对湿度是95%以下, 尺寸稳定。



Sound Insulation 隔声

Excellent sound environment by insulation and acoustic performance.
兼具隔声及吸声性能, 可达专业级吸声效果。



办公



学校



商业

Beiyang Amber System(Rockwool) 北洋安珀™ 岩棉天花系统



Beiyang Amber system provides comprehensive range of design freedom. Amber system is suited for use in commercial space where it needs a high level of acoustic and fire resistant. The ceiling system consist of BEIYANG high density rockwool and sealed edge.

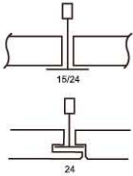


北洋安珀™岩棉天花板系统兼顾了性能与装饰效果的平衡，提供广阔的设计空间。
适用于各种工业空间的室内装修，有着卓越的防火及吸声性能。
系统采用高密度岩棉板为基材，四周封边。

SYSTEM RANGE

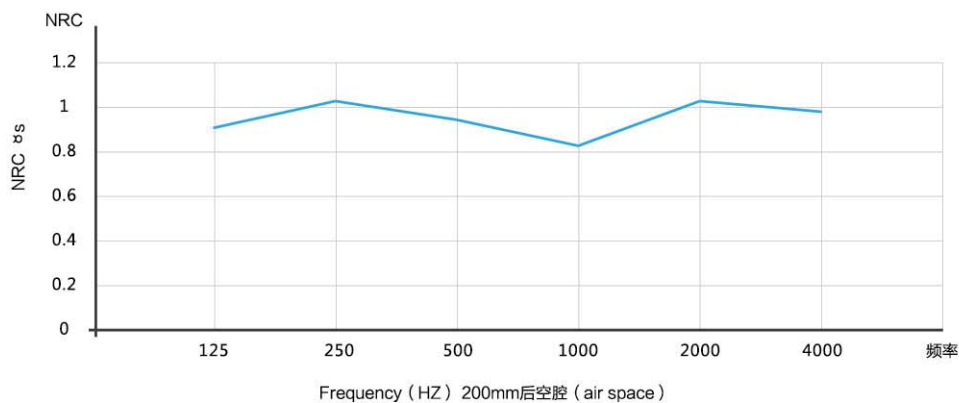
尺寸规格

Dimensions can be customized
尺寸可根据客户要求进行调整

边角形式	长 (mm)					
	宽 (mm)	300	600	1200	1800	2400
	300					
	600					
	厚度	15/20	15/20	15/20	25	25

NRC

声学性能



吸声曲线

检测机构:
Tongji University
上海同济大学

NRC=0.85



Acoustic 吸声性能

Sound Absorption test according to ISO 354:2003

(吸声测试根据: ISO 354:2003)

NRC=0.85



Fire-resistant 不燃性能

Class A2-s1,d0, non-combustible according to EN13501-1:2007 tested by SGS

A2级, 国家权威部门检测 (GB8624-2012)



Humidity 抗潮抗下陷

Dimensionally stable with RH up to 95% at 30°C no sagging, wrapping or delaminating

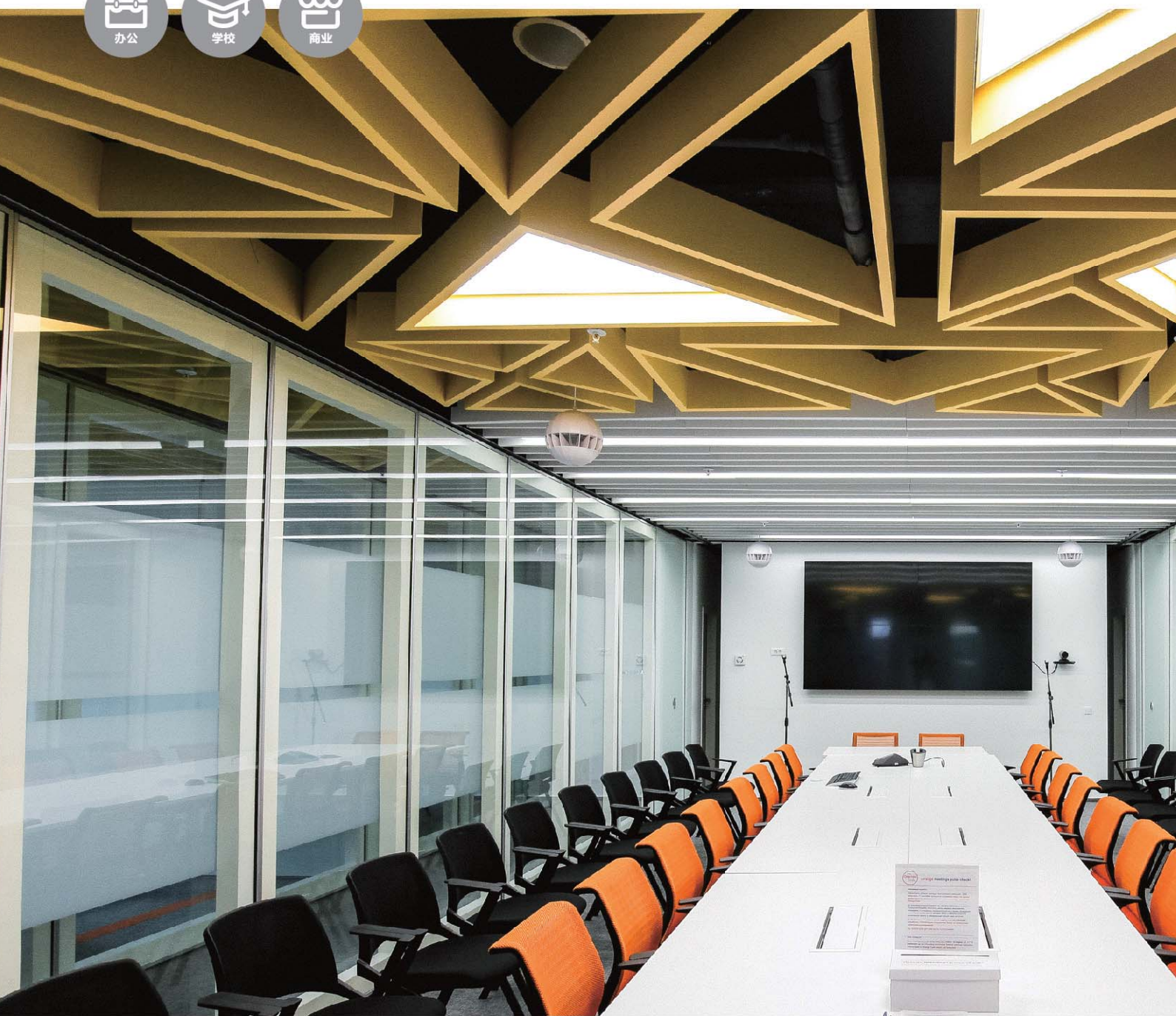
在室内温度30℃以及相对湿度是95%以下, 尺寸稳定。



Environmental 环保

Green label material according to ASTM D5116-06 tested by PSB Test in Singapore

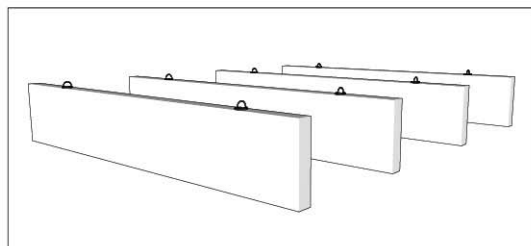
成品和包装可再循环使用。



Belyang Artisan-Vertical Baffle System is a vertically free hanging units offering a high level of design possibilities when the room volume is limit. Suspension system using spring hook/adjustable wire hangers, Showing extremely beautiful design with an excellent acoustic performance.

北洋雅尚™垂直挂片系统采用垂直式悬吊安装，适用于空间狭小或不适用龙骨吊顶的室内。采用专用金属挂件和可调节的悬挂绳安装，大面积拼接后可实现无与伦比的美感和卓越的吸声性能。




For better acoustic comfort



Beiyang Artisan-Vertical Baffle System
北洋雅尚™ 垂直挂片系统

SYSTEM RANGE

尺寸规格

形状	尺寸	厚度	安装
	200X1200, 300X1200, 400X1200	30/40	单片悬挂安装
	600x600	30/40	单片悬挂安装
	600x1200	30/40	组合悬挂安装

VENNER SELECTION

花纹贴面



Acoustic 吸声性能

Sound Absorption test according to ISO 354:2003

(吸声测试根据: ISO 354:2003)

NRC=0.9



Fire-resistant 不燃性能

Class A2-s1,d0, non-combustible according to EN13501-1:2007 tested by SGS

A2级, 国家权威部门检测 (GB8624-2012)



Humidity 防潮抗下陷

Dimensionally stable with RH up to 95% at 30 °C no sagging, wrapping or delaminating

在室内温度30℃以及相对湿度是95%以下, 尺寸稳定。

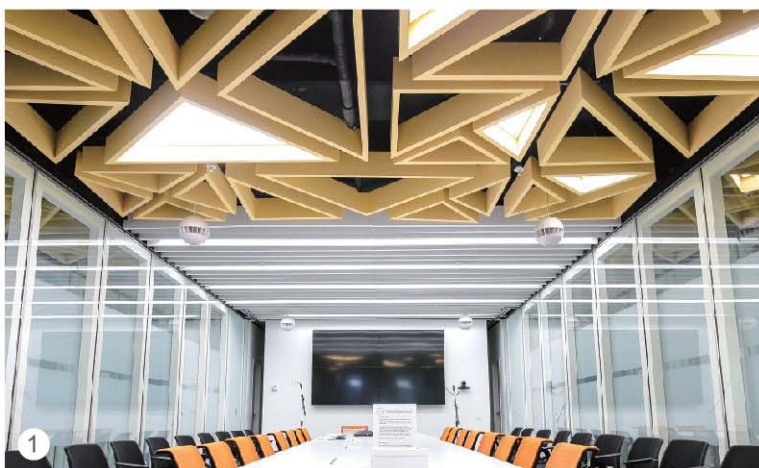


Environmental 环保

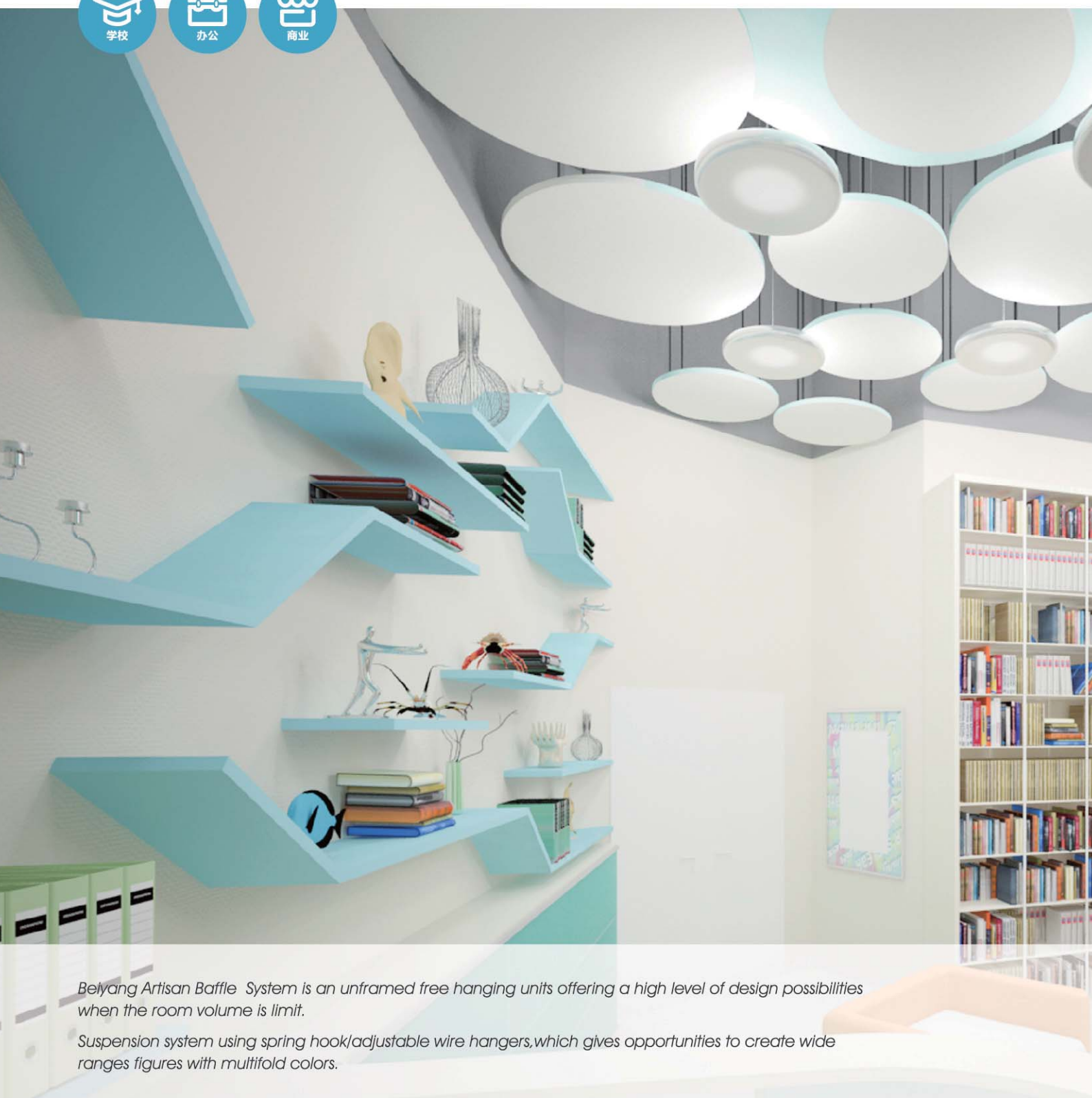
Green label material according to ASTM D5116-06 tested by PSB Test in Singapore

成品和包装可再循环使用。

Design x Beiyang Artisan Baffle



1. 莫斯科国际银行
2. 胡志明篮球馆
3. TOMSK OLYMPIC PULL ZVEZDNYI
4. AMT-GROUP TOMSK BASSEIN



Belyang Artisan Baffle System is an unframed free hanging units offering a high level of design possibilities when the room volume is limit.

Suspension system using spring hook/adjustable wire hangers, which gives opportunities to create wide ranges figures with multifold colors.

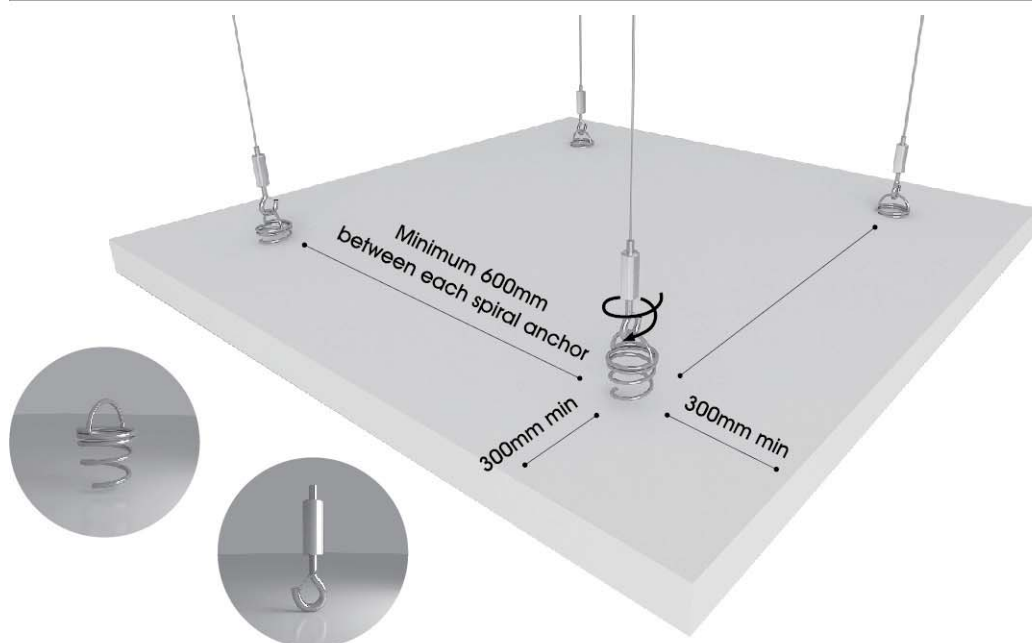
北洋雅尚™水平吊片系统采用无框式悬吊安装，适用于空间狭小或不适用龙骨吊顶的室内。
采用专用金属挂件和可调节的悬挂绳安装，使多造型多颜色的设计方案得以实现。

For better acoustic comfort



Beiyang Artisan Baffle System 北洋雅尚™ 水平吊片系统

INSTALLATION 安装系统



COLOR SELECTION 颜色选择



SYSTEM RANGE 尺寸规格

产品	形状	尺寸	厚度
矩形		600X1200, 1200X2400	30/40
正方形		600x600, 1200x1200	30/40
圆形		φ 800, φ 1200	30/40
六边形		1200X1200	30/40
异形		600-2700	30/40





For better acoustic comfort

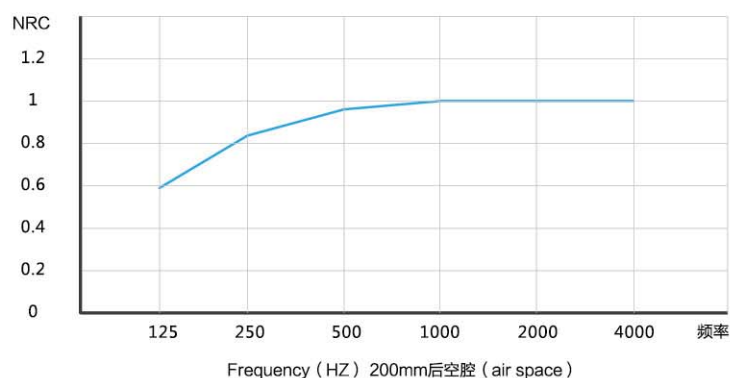
Beiyang
Alison System

NRC 声学性能

吸声曲线

NRC=0.9

检测机构：
Tongji University
上海同济大学



产品	厚度 (MM)	频率 (HZ)						NRC	吸声等级
		125	250	500	1K	2K	4K		
北洋雅尚™悬挂板	40	0.6	0.84	0.96	1.08	1.16	1.12	0.9	A



Acoustic 吸声性能

Sound Absorption test according to ISO 354:2003
(吸声测试根据: ISO 354:2003)

NRC=0.9



Fire-resistant 不燃性能

Class A2-s1,d0 ,non-combustible according to EN13501-1:2007 tested by SGS
A2级, 国家权威部门检测 (GB8624-2012)



Humidity 抗潮抗下陷

Dimensionally stable with RH up to 95% at 30°C
no sagging, wrapping or delaminating
在室内温度30℃以及相对湿度是95%以下,
尺寸稳定。



Environmental 环保

Green label material according to ASTM D5116-06 tested by PSB Test in Singapore
成品和包装可再循环使用。



EDUCATION

Supporting teachers and pupils by a better sound environment.

BUSINESS

Exploring the variety of the dimensions and colors, BEIYANG will provide multi-task based acoustic designs.

LEISURE

Activity based acoustic design makes your business more attractive and successful.

MEDIAL

BEIYANG acoustic system solutions based on hygiene improve your health and experience in healthcare facilities.

SPORTS

BEIYANG's acoustic system are developed to combine acoustic, anti-impact, decorative and other relevant requirements.

INDUSTRY

Optimal acoustic solution to your industrial indoor environment with BEIYANG's multi-faction system.

应用领域 APPLICATION



教育

专业的声学环境将有助于教师和学生的高效互动和高效教学。北洋玻纤板可以满足学校各种环境下的声学要求。



办公

多样化的安装系统和颜色选择，北洋玻纤板能为您带来舒适愉悦的办公体验。



休闲

北洋玻纤板可以满足设计师多样化的设计需求，使您的店铺设计别具一格。



医疗

专业化的高效需求使得北洋玻纤板具有不可替代的性能优势。兼具声学、安全、清洁性能的板材为您带来完美的医护环境。



运动

北洋具有专门为运动场所设计的抗撞击的吊顶板材，能满足从运动员到观众的各种不同声学及安全需求。



工业

在大面积的厂房空间内，北洋玻纤板能为您带来性能和外观设计的双重精致体验。

EFFICIENT WORKPLACE

办公室声学设计方案

Motivation
Concentration
Open-plan



Enjoy Your Work Time

With A Better Acoustic Solution



Noise exposure is common in modern office where is mostly designed with open-plan .

Our solution concern more about people and their activity based on more job satisfaction and overall well-being.

Beiyang support your work time with a better acoustic solution for your different activities in office.

噪声污染普遍存在于现代办公环境中。

尤其在开放式办公区，噪声会降低办公效率并危害健康。

北洋®玻纤吸声系统为您丰富的办公生活带来定制化的声学设计方案。

让您的办公环境更为健康、高效。





IF YOU ARE IN A TOUGH SOUND
ENVIRONMENT
IN YOUR WORK PLACE

如果您在嘈杂的办公环境下
进行会议、商谈

This greatly reduces your
and your team's efficiency
这大大降低了您和团队的办公效率

Concentration and mental health
will be greatly impacted.

集中度降低、身心健康受到影响。

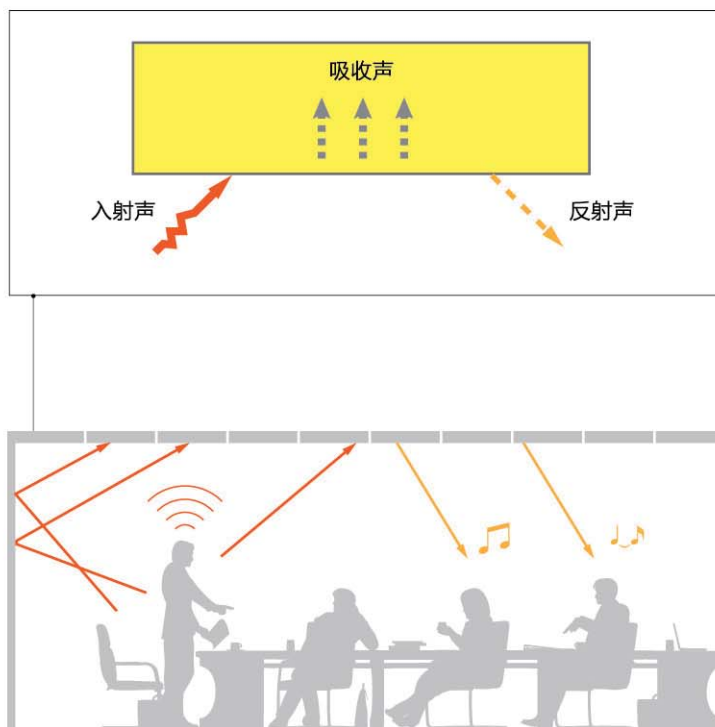
REASONS FOR THE NOISE IN OPEN PLAN OFFICE

办公楼宇简陋的声学环境体现在哪些方面

- Large areas of glass and smooth surfaces, large amount of echo mixed in the room
- Open Office environment makes a variety of sound sources into one ear.

办公环境的噪音源主要从下面两个方面来体现：

- 现在办公环境往往大量采用玻璃和平滑表面，大量回声混杂在室内。
- 敞开式办公环境使得多种声源传入人耳内。



HOW TO UNDERSTAND THE ECHO SITUATION

如何理解室内说话时所产生的回声

- When people talk, part of the sound would be passed directly on to the interior of the walls and the floor, after different surface of diffuse into the listener's ears (commonly known as echo or reverberation). This part will be mixed with the noise which go directly into the ear, make it difficult for audience to clearly understand all contents of the speaker.
- Moderate reverberation time can make indoor voice clear and sweet. The main factors influencing the reverberation time is the size of the room and an indoor area of absorption.
- 演讲者说话时，部分声音会传递到室内的墙面和地板上，经过不同表面的漫反射进入听众的耳中（俗称回声或混响）。这与部分直接进入听众耳中的声音混杂在一起，使得听众很难清晰的理解演讲者说话的全部内容。
- 适中的混响时间能使得室内声音清晰且圆润。影响混响时间的主要因素为房间的大小和室内吸声面积的多少。

HOW "BEIYANG" FIBERGLASS PANELS IMPROVE YOUR SCHOOL ACOUSTIC ENVIRONMENT?

“北洋”牌玻纤板如何能改善您的办公室内声学环境？

- Endless design options: Range design opportunities of product and installation systems for variety of sound environment demands.
- Superior Acoustics: Excellent product performance, ensure healthy indoor environments.
- Unique perspective: You can have total freedom of design and modern office with beiyang products.
- 丰富的品类选择：多门类的产品选择以及安装系统能适应不同的办公环境设计。
- 出众的产品性能：特有的吸声性能，确保室内声学环境的健康。
- 独特的外观选择：优雅的外观和多彩的设计使现代化办公环境更具设计感。

HOW TO GET THE BEST INTERIOR ACOUSTICAL ENVIRONMENT?

如何获得最佳室内声学环境？

根据办公环境的结构设计制定
不同的声学方案

Different acoustic
designs for open plan office

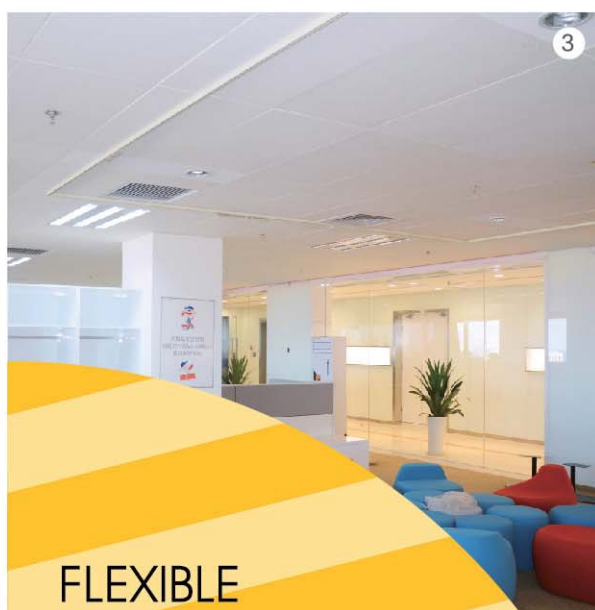
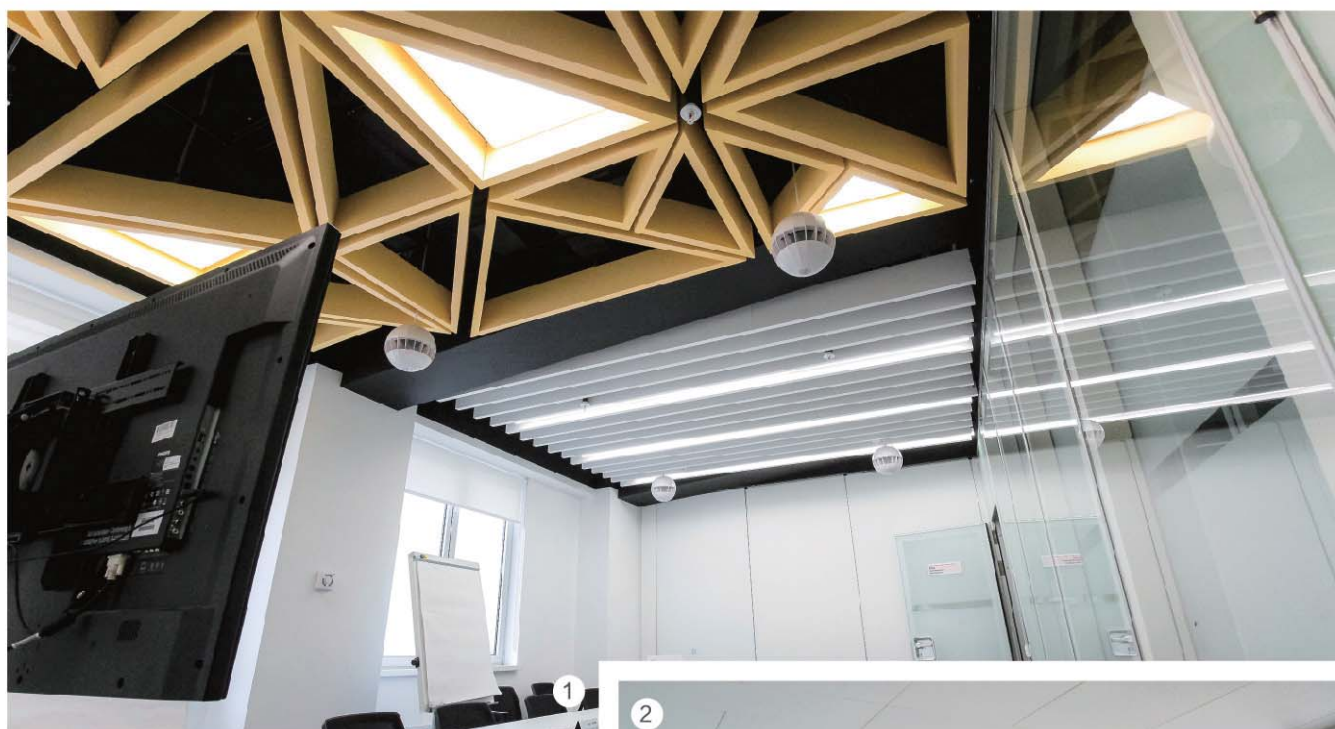
选用优质的
定制的吸声材料

Choose right material for
sound absorption

Acoustic Solutions for your office

办公楼不同室内类型的方案选择

场所	室内特点	理想 混响时间	方案推荐				
			TEUS 拓仕系列	TECHNIC 拓境系列	ARTISAN 雅尚系列	ARTECH 雅科系列	CLEANGUARD 洁仕系列
走廊	室内面积较大 木质/石膏表面较多	0.8-1.2	●	●		●	
大厅	挑高，空间大	0.8-1.2	●	●	●		
办公室	敞开式 大面积的平滑表面	≤1.5	●	●		●	
会议室	较高声学要求	0.8-1.2		●	●		
餐厅	洁净、设计感的需求	≤1.0			●		●



FLEXIBLE ACOUSTIC DESIGN FOR OPEN PLAN OFFICE ENVIRONMENT

北洋玻纤产品给您的办公环境
提供多样化的室内声学设计方案

- 1. 雅尚™垂直挂片系列
- 2. 拓境™A系列
- 3. 拓境™D系列
- 4. 雅尚™水平吊片系列





SOUND ENVIROMENT IN HEALTHCARE FACILITIES

医疗系统声学设计方案

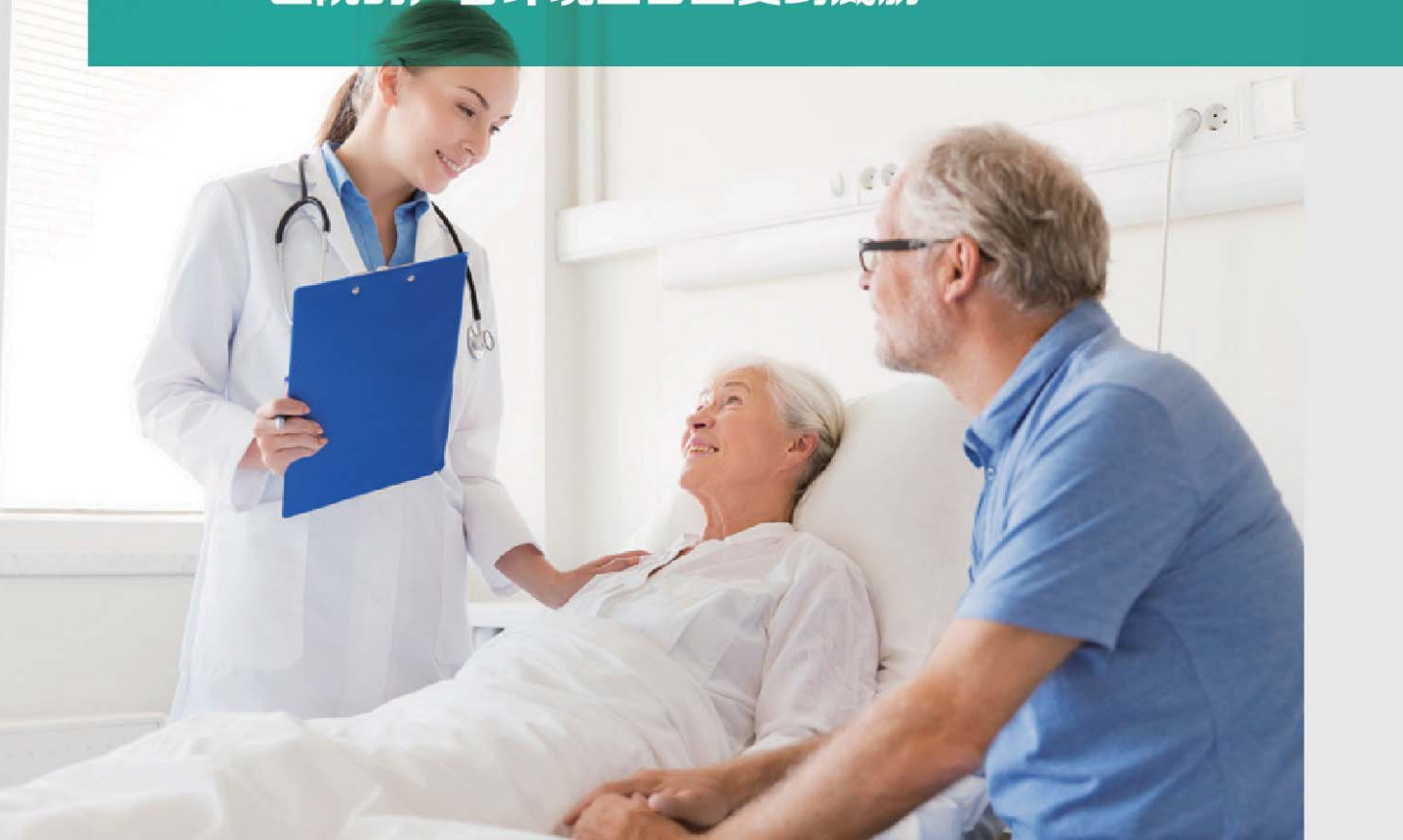
When you consider a design in a healthcare facilities, sound comfort and clean environment is the most important.

Beiyang Ceiling Solution is based on requirement from modern hospital both of acoustic and hygienics.

现代化医疗系统对于声学舒适性和环境清洁性提出了新的要求。

北洋® 天花系统基于您对于声学 and 洁净的双重要求而设计。

现代化医疗设备的增加、医院人流量的增大， 医院的声音环境正日益受到威胁



Noise exposure will obviously
reduce the health care efficiency.
噪音污染直接影响着医疗效率的提高

越来越多研究表明，良好的声学环境能显著改善医院内部的效率和病员的满意度。

More and more studies show that a good sound environment can greatly improve the quality of healthcare facilities and satisfaction from patients.



It is utmost important that we should strive to re-create a quality and natural acoustic environment in hospital .

为医院创造一个优质的声学环境
是我们刻不容缓的责任与追求

WHERE DOES THE NOISE COME FROM IN HOSPITAL 医院的噪声从哪里来？



NOISE FROM EQUIPMENT 机器发出的噪音

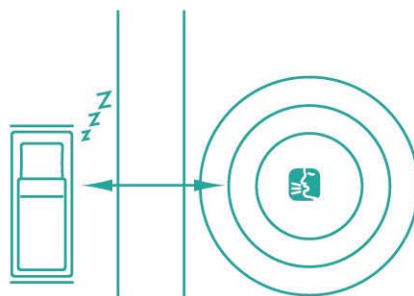
Medical equipment is widely used in modern hospital. Doctors and patients rely on these machines but the noise from them are often neglected.

医院内存在大量诊疗所需的机械设备在给医生带来准确判断的同时也带来了刺耳的噪音。如果能有效控制，将优化医院内的声学环境。

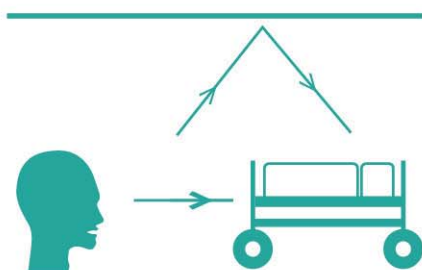
NOISE IN HIGH LEVEL IN CORRIDOR 走廊过道噪音

Corridor is the most common public area in hospital, waiting area is usually designed in the corridor space. In addition, smooth walls or decorative stone are mostly designed in it, echo and diffuse exist in large amount in the corridor area.

走廊是医院内另一个普遍存在的公共区间，候诊时人们会聚集于走道中，使得大量声音混杂在走道两旁，且走道两旁通常都为光滑的墙壁或石材装饰区域，加剧了活动人员说话走路噪声的漫反射；使得候诊区域声学环境质量大大降低。



INDOOR NOISE 室内各种噪音



Ward is a common space in the hospital, especially in hospitalized patients, indoor and peaceful environment is necessary for their health. If the indoor sound-absorbing material is not used, room acoustics will be in bad condition

病房是医院内常见的活动空间，尤其对于住院治疗的病人来说，室内的安静环境是他们安心疗养的必要条件。如果室内没有安装吸声材料，那室内声音会通过屋顶或者墙面反射，不利于病患休养。

WHY SOUND ABSORPTION MATERIAL IN HOSPITAL ? “北洋”牌玻纤板如何能改善医院室内声学环境？

- Specilized material for sound absorption: special ceiling system for cleanliness demand in hospital.
- Superior Acoustics:Excellent product performance, ensure healthy indoor environments.
- Unique perspective:Flexible design freedom to ensure the pleasant time with good sound environment.
- 专业定制型的声学材料：特殊的洁净型天花设计，在体现声学效果的同时符合医院对洁净环境的要求。
- 优质的产品性能，确保室内环境的健康。
- 优雅的外观和多彩的设计使现代化医院在治疗您疾患的同时给您带来愉悦的就医环境。

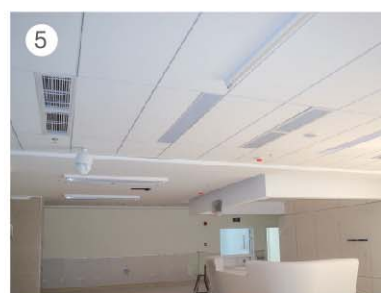
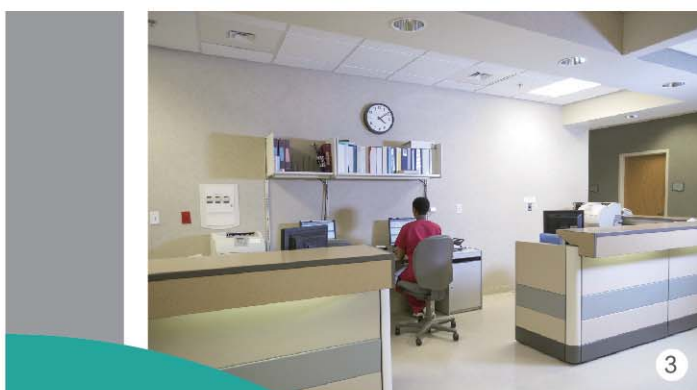
HOW TO GET THE BEST ROOM ACOUSTICAL ENVIRONMENT? 如何获得最佳室内声学环境？

根据医院特殊的室内环境及
不同场所的不同声学需求设计
不同的声学方案。
Different acoustic
designs for medical
institutions

选用优质的
为医院定制的洁净型吸声材料
Choose specific sound
absorption material for
hospitals

Different types of indoor options of hospital acoustic
医院不同室内类型的方案选择

场所	室内特点	理想 混响时间	方案推荐				
			TEUS 拓仕系列	TECHNIC 拓境系列	ARTISAN 雅尚系列	ARTECH 雅科系列	CLEANGUARD 洁仕系列
走廊	木质/石膏表面较多	0.8-1.2	●	●		●	
大厅	挑高，空间大	0.8-1.2	●		●	●	
诊室	较高声学要求	≤1.5					●
治疗室	洁净、安全的需求	0.8-1.2					●
病房	洁净、设计感的需求	≤1.0					●



FLEXIBLE ACOUSTIC DESIGN FOR HOSPITAL ENVIRONMENT

北洋玻纤产品给您的医疗环境
提供多样化的室内声学设计方案

- 1. 洁仕™系列
- 2. 安珀™系列
- 3. 拓境™A系列
- 4. 洁仕™系列
- 5. 拓仕™系列

学校声学设计方案

ACOUSTIC IN SCHOOL

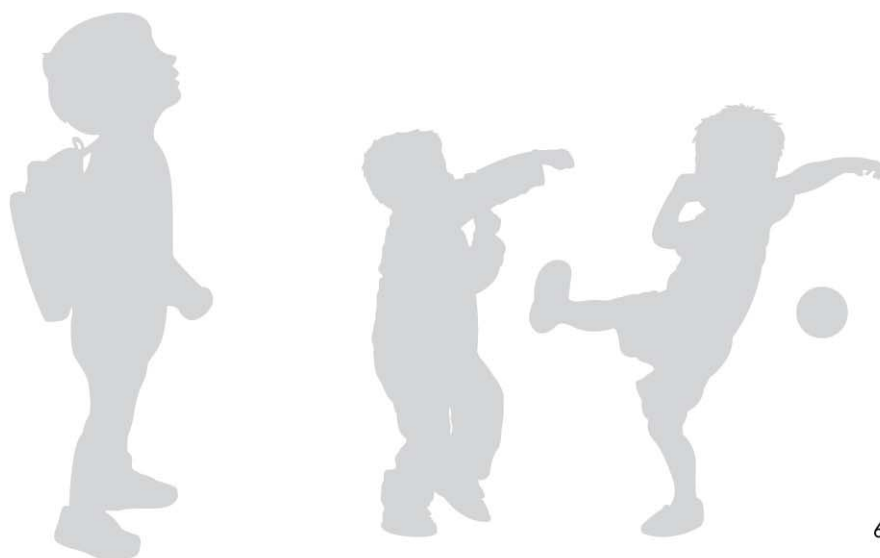




BETTER SOUND COMFORT FOR YOUR SCHOOL TIME

更好的室内声学环境能为教师和学生创造舒适的教学环境

*Creating better condition for teachers and students means
best design the room acoustical and the comfort feeling in it.*





噪声

Noisy environment in school result in bad performance of students and lower grades
会降低学生的听课效率以及记忆力

Teachers have to raise their voice to be heard clearly in noise arround. Poorer comfort for teaching experience.

会让老师的教课变得困难重重

**BETTER QUALITY OF TEACHING AND
LEARNING IN GOOD SOUND ENVIRONMENT**

良好的声学环境使您的教学更高效

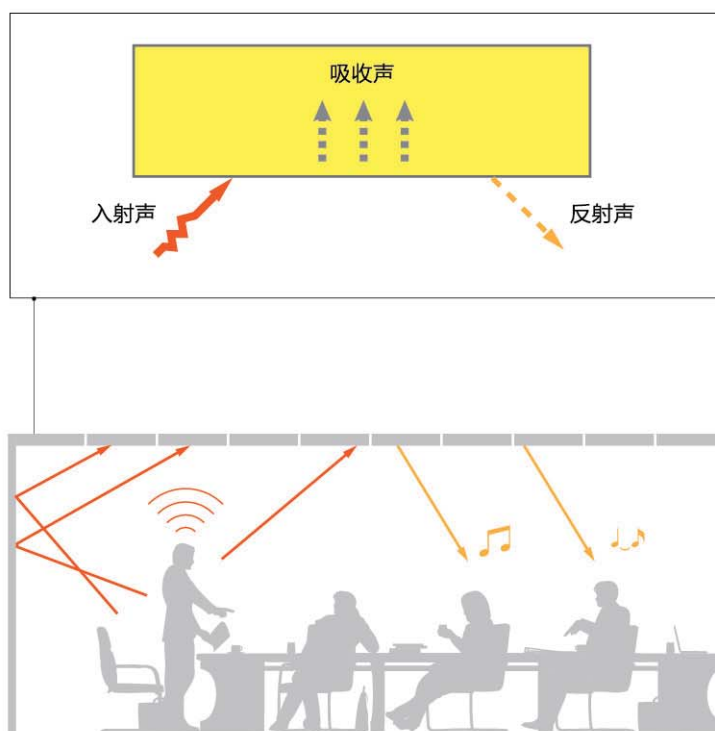
DEFINE A BAD SOUND ENVIROMENT IN SCHOOL

- Long Reverberation time: Reverberation time will impact the speech clarity and sound transmission time.
- Large amount of noise will reduce the concentration and teaching quality.

如何定义学校简陋的声学环境

定义学校简陋的声学环境，主要从下面两个方面来体现：

- 混响时间过长：过长的混响时间降低了声音的清晰度及传递时间；
- 大量噪音的存在影响了教学的集中度，降低教学质量



GOOD SOUND COMFORT CAN IMPROVE YOUR LEARNING TIME

良好的声学环境可以如何促进您的教学

- Improved speech clarity and the quick transmission time can develop your teaching and learning quality.
- Less noise ,less tiredness and stress levels,improved concentration in school.
- Better sound environment create more possibility for motivation.
- 提高说话者声音的清晰度并能迅速传递到听者耳中。提高教学质量。
- 减少因噪音而带来的烦躁感，降低环境带来的压力水平，增加教学的集中度。
- 良好的声学环境能更好的激发教师和学生的创造力。

WHY MORE POSSIBILITY OF BETTER ROOM ACOUSTIC COMFORT WITH BEIYANG PRODUCTS?

“北洋”牌玻纤板如何能改善您的学校室内声学环境？

- Endless design options: Range design opportunities of product and installation systems for variety of sound environment demand.
- Superior Acoustics: Excellent product performance, ensure healthy indoor environments in school.
- Unique perspective: You can have total freedom of design and modern school indoor environment with beiyang products.
- 丰富的品类选择：多门类的产品选择以及安装系统能适应不同的学校环境设计。
- 出众的产品性能：出众的吸声性能，确保教学环境的健康。
- 独特的外观选择：优雅的外观和多彩的设计使学校室内环境更具设计感。

HOW TO GET THE BEST ROOM ACOUSTICAL ENVIRONMENT?

如何获得最佳室内声学环境？

选用优质吸声材料并融入适合于学校的生动设计。

High-quality Acoustic Material with unique designs for school

针对学校声学环境定制合理的声学方案

Specilized acoustic solution based on different sound environments in teaching place.

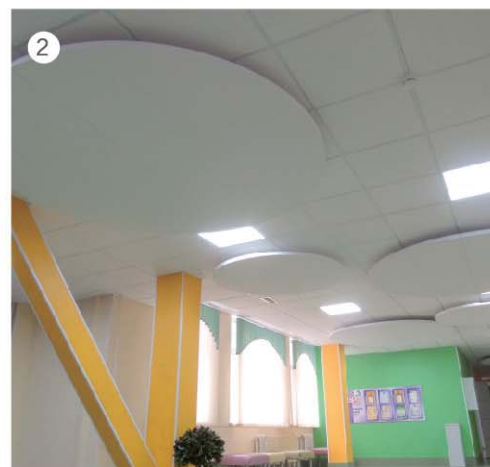
Different types of indoor options in school 学校不同室内类型的方案选择

场所	室内特点	理想混响时间	方案推荐				
			TEUS 拓仕系列	TECHNIC 拓境系列	ARTISAN 雅尚系列	ARTECH 雅科系列	CLEANGUARD 洁仕系列
报告大厅	室内面积较大 木质/石膏表面较多	0.8-1.2		●	●		
教室	数量较多 室内有多种表面	0.8-1.2	●			●	
体育馆	安全隐患 内部挑高	≤1.5			●	●	
会议室	数量较多 室内有多种表面	0.8-1.2	●	●			
餐厅	洁净、设计感的需求	≤1.0	●	●	●		●

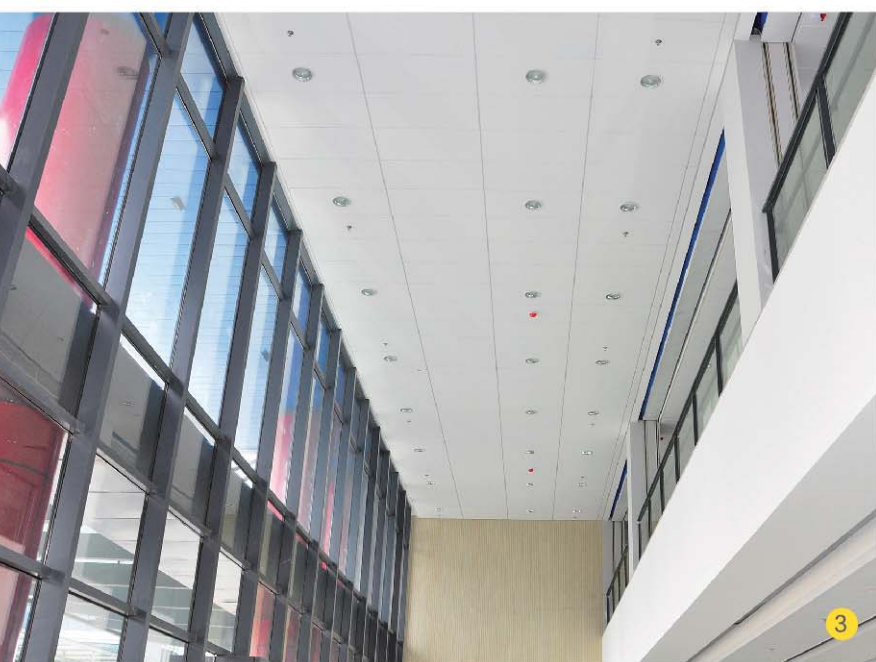


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1. 报告厅 - 雅尚™系列
2. 过道 - 拓仕+雅尚™系列
3. 教学楼 - 拓境™系列
4. 教室 - 拓仕™系列



2



3



4

FLEXIBLE ACOUSTIC DESIGN FOR SCHOOL ENVIRONMENT

北洋玻纤产品给您的学校环境
提供多样化的室内声学设计方案

DOMESTIC CASE LIST 国内外部分案例

国内案例名称	国内案例名称
北京中央音乐学院 大剧院	北京中国人民银行监控指挥中心
北京京东商城总部大厦	北京国开证券阜外办公楼改造
北京中航工业基础院顺义园区复合材料建设项目1号科研楼	北京中国航空规划发展有限公司办公楼
北京轨道安全风险监控中心	北京中信建投证券
北京同仁堂办公区室内改造	北京华能煤业有限公司办公楼
上海市德达医院	上海中航商用发动机项目101工程2期
上海梅赛德斯奔驰培训中心	上海威派格环保科技有限公司厂房
上海理光（中国）数码设备研发中心	上海金山万达广场电影城
上海美罗星剧院装修改建项目	上海长宁区龙之梦购物中心 MARZANO餐厅
深圳市宝安区妇幼保健院 新院	深圳市福田环境监测基地大楼
东莞市理工学院教学楼	深圳卫星大厦
深圳市雅昌艺术中心	深圳南山文体中心
武汉市华星光电生产基地	武汉市烽火通信研发中心建设一期
武汉大学高分子化学研究院实验室	湖北省武穴中医院
湖北省武汉财政学院	杭州未来科技城幼儿园
杭州第十一中学	宁波华侨豪生大酒店演艺厅
维斯克凡科技（苏州）有限公司厂房	南通市通州高级中学
南通市农村商业银行	无锡宜兴川埠部队
常州日报报业传媒大厦	常州市地铁交通指挥中心
安徽省思科（CISCO中国）研发大楼	安徽省合肥市金融服务中心
青岛市中德生态园	浦发银行青岛市分行
大连希望大厦	大连新非凡铜牛岭幼儿园
辽宁省沈阳工程学院	辽宁省沈阳广电
西安市省人民医院	重庆国家开发银行总行大楼
成都崇州万达院线	贵州省银监局会议室



OVERSEAS PROJECTS

AIA Sathorn Tower--Bangkok Thailand

The Sochi winter Olympics Stadium--Sochi,Russia

ADRIS Grupa Croatia--Rovinj ,Croatia

the lobby of Philharmonic Hall--Moscow,Russia

Whitefriars Church of England School --Norfolk ,UK

Mori Office Building--Tokyo,Japan

Tsuen Wan Adventist Hospital--Hong Kong

The Hongkong Polytechnic University

City University of Hong Kong

Innopolis Kazan--Russia


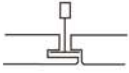
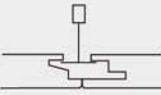
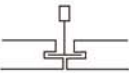

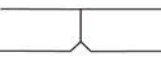
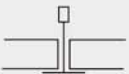
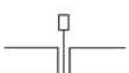


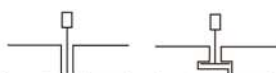

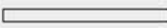
West Midlands Schools--UK

Kyungnam Province Office project--Korea

Du Montford University Leicester, UK



FOR BETTER
ACOUSTIC COMFORT

产品名称	页码	边角形式	厚度	尺寸(mm)
天花基本款				
Beiyang Teus 北洋拓仕™	22		15/20	600-1800
天花设计款				
Beiyang Technic A 拓境™ A	26		20/25	600-1800
Beiyang Technic D 拓境™ D	28		22/40	600-2400
Beiyang Technic B 拓境™ B	32		20/25/30	600-2400
Beiyang Technic E 拓境™ E	33		20	600-1500
特殊场所				
Beiyang Echo-free 北洋科丽™ 实贴型玻纤板系统	34		20/25/30/40	600-2400
Beiyang Cleanguard™ 北洋洁仕™ 高洁净玻纤天花系统	36		15/20/25	600-2400
Beiyang Artech 北洋雅科™ 黑色天花系统	38		15/20/25	600-2400
Beiyang Artech 北洋雅科™ 高反光天花系统	40		15/20/25	600-2400
Beiyang Artech 北洋雅科™ 复合天花系统	41		30/40	600-1200
岩棉基本款				
Beiyang Amber 北洋琥珀™ 岩棉天花系统	42		15/20/25	600-1200
独立悬挂板和垂片				
Beiyang Artstan 北洋雅尚™ 垂直挂片系统	44		40/50	600-1800
Beiyang Artstan 北洋雅尚™ 水平吊片系统	48		30/40/50	600-2400

表面	防潮性能	NRC*	防火等级	反光度	清洁方式	是否可拆卸
纹理/平面 白色	RH99	0.9	A2	85%	真空吸尘器 湿布	•
纹理/平面 白色	RH99	0.9	A2	85%	真空吸尘器 湿布	•
纹理/平面 白色	RH99	0.95	A2	85%	真空吸尘器 湿布	•
纹理/平面 白色	RH99	0.9	A2	85%	真空吸尘器 湿布	•
纹理/平面 白色	RH99	0.9	A2	85%	真空吸尘器 湿布	•
纹理/平面 白色	RH99	0.9	A2	85%	真空吸尘器 湿布	•
纹理/平面 白色	RH99	0.9	A2	85%	真空吸尘器 湿布	•
纹理/平面 白色	RH99	0.9	A2	85%	清水冲洗	•
平面 黑色	RH99	0.9	A2	—	真空吸尘器 湿布	•
纹理/平面 白色	RH99	0.9	A2	90%	真空吸尘器 湿布	•
纹理/平面 白色	RH99	0.9	A2	85%	真空吸尘器 湿布	•
纹理/平面 白色	RH99	0.85	A2	85%	真空吸尘器 湿布	•
纹理/平面 白色	RH99	0.9	A2	85%	真空吸尘器 湿布	•
纹理 白色	RH99	0.9	A2	85%	真空吸尘器 湿布	•

*吸声系数根据厚度不同有所区别

INSTRUCTION OF SUSPENSION SYSTEM

龙骨使用

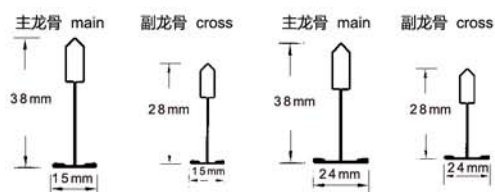
Beiyang ceiling is classified as senior acoustical ceiling tile, please choose appropriate suspension system for installation.

玻纤天花板属于高品质天花板，请选用高质量的悬吊龙骨，在选购烤漆龙骨之前，请确定好与天花板相配套的公制或英制龙骨。

平面龙骨 Plain Type



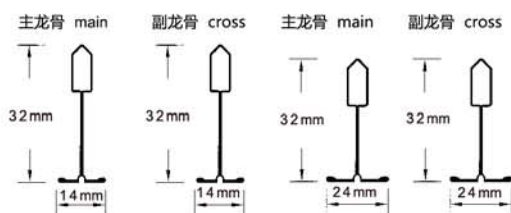
T15	主龙 (main runner) 38×15×3000 中龙 (cross runner) 28×15×1200 小龙 (cross runner) 28×15×600
T24	主龙 (main runner) 38×24×3000 大副龙 (cross runner) 28×24×1200 小副龙 (cross runner) 28×24×600



带凹槽的平面龙骨 Flat Grid With Groove



窄边 Narrow grid	主龙 (main runner) 32×14×3000 小龙 (cross runner) 32×14×600
宽边 Wide grid	主龙 (main runner) 32×24×3000 中龙 (cross runner) 32×24×600



大凹槽 Grid with Wide Groove



主龙 (main runner) 38×16×3000
大副龙 (cross runner) 38×16×1200
小副龙 (cross runner) 38×16×600



边龙骨 Edge Grid



边龙骨
Edge Grid

