



21ST CENTURY SCHOOL DESIGN

NanaWall[®]
Boundaries **Unbound**[®]



FLEXIBLE SPACE

Flexible space can take a variety of forms:

- Classroom to classroom
- Classroom to common areas
- Resource centers - shared use of space and equipment



The signature characteristic of 21st century schools is students at work. Pedagogy—a project-based curriculum and companion performance assessment—enables this new shape of schooling. But it is technology and new learning environments that support this new collaborative culture.



Source: Designing New Learning Environments to Support 21st Century Skills – Bob Pearlman

CONNECTION TO OUTDOOR SPACES

Connections to the outdoors for:

- Daylight and views
- Fresh air & ventilation
- Outdoor learning opportunities



SOUND CONTROL

Studies reinforce need for good acoustics to create positive learning environments.

Standards identify levels of acoustic separation:

- CHPS
- WELL





EXPLORE 21ST CENTURY LEARNING HUB DESIGN

RIO DEL SOL STEAM SCHOOL

Location: Oxnard CA

Architect: A4E | Architecture for Education

Product: NanaWall SL45

“

When the NanaWall system is open, the space works as a multi-purpose room. When closed, it creates space for two diverse uses: an intimate and private student lounge on one side and a more active space on the other.

”

—Douglas S. Ely, Principal, DSE Architecture

- Academic space is reimagined to meet the demands of 21st Century curriculum by moving away from formal classroom layouts and embracing a dynamic teaching methodology.
- Mobile furniture and operable walls enable hands-on activities and adaptable layouts where one, two, or more classrooms can come together for collective learning.
- With the ideology that every square foot of a school poses a teaching opportunity, hallways are reimagined as additional learning space rather than single purpose passthroughs.

NANAWALL SYSTEMS IN 21ST CENTURY SCHOOL DESIGN



Flexibility

NanaWall systems enable dynamic classroom layouts on the fly. Merging one, two, or more classrooms into unifying, collaborative learning hubs.



Ease of Operation

NanaWall opening glass walls feature stainless steel rollers that glide on stainless steel tracks to simplify operation regardless of size. Easy enough for teachers and students alike—even with an effortless push of a finger.



Sound Control

Engineered with the success of students in mind, NanaWall acoustic glass walls can reach up to unit STC 45, offering distraction-free environments even with multiple classes happening at once.



Wellness

Glass walls maximize daylight to minimize reliance on artificial lighting. When opened, constant fresh air ventilation, alongside natural light, create healthy learning spaces that boost attention and retention.



Security

NanaWall systems allow teachers to monitor students at all times. ADA compliant sills, advanced locking mechanisms, and impact-safe glass options, act as additional security measures where the safety of students is paramount.



UP TO UNIT
STC 45

DEL DIOS ACADEMY OF ARTS AND SCIENCES

Location: Escondido CA

Architect: HMC Architects

Product: NanaWall NW Acoustical 645

PROJECT HIGHLIGHT
MINETT ELEMENTARY

MINETT DESIGN EXPERIENCE



UP TO UNIT
STC 45



1 TEMPLATE

A **visioning process** involving a broad range of stakeholders to imagine the **future of learning** by designing a school that enables **mobility, flexibility, and transparency for the learners and teachers.**

2 VISION

The goal was to **adopt a co-teaching model** that works with various-sized groups, **empowers collaborative and individual learning**, and gives learners more choices and autonomy.

3 DESIGN

The final design is **future-ready flexible and adaptable** learning centers that gives kids the opportunity to learn according to their **individual needs** and **enables teachers** the flexibility to **innovate and inspire** each other.

4 RESULTS

The **co-teaching model** has given teachers the **flexibility they seek** to meet the individual needs of learners. Opening glass walls **enable fluid** adaptability within **learning environments.**

MINETT ELEMENTARY SCHOOL

Location: Frisco TX

Architect: Stantec

Product: NanaWall NW Acoustical 645



UP TO UNIT
STC 34



PROJECT HIGHLIGHT
**CENTERVIEW
ELEMENTARY**

CENTERVIEW ELEMENTARY SCHOOL

Location: Blaine MN

Architect: Wold Architects & Engineers

Product: NanaWall SL45

“

When kids walk into this building, they are enthused, they are excited. The space is modern, it is awesome, and it allows for a whole new idea of how they do school.

”

—Mike Callahan Principal, Centerview Elementary School

Centerview Elementary School is a unique learning environment. The school was designed and built specifically to enable personalized learning, to free students and teachers from a 19th Century educational model and equip students for the 21st Century. It is composed of flexible spaces that can be reconfigured fluidly on the fly.



UP TO UNIT
STC 34



◀ **BOOKER T. WASHINGTON ELEMENTARY SCHOOL**

Architect: Cannon Design

Location: Chicago IL

Product: NanaWall SL45

A 63,000-square-foot STEM campus was separated into three academies, each further stratified into three collaborative learning hubs per grade level. Easy-to-operate folding glass walls allow teachers to gain access to shared resources while being able to adapt hallways as additional space for small and large group instruction as well as project-based learning activities.



UP TO UNIT
STC 43

TARBUT V' TORAH ▶

Architect: LPA Design Studios

Location: Irvine CA

Product: NanaWall HSW60

At TVT, the new MAKER building aims to inspire creativity and imagination with a more dynamic, hands-on learning approach focused on STEAM education. Flexibility is embraced with mobile tables, chairs, whiteboards, and a 12 panel, open corner, single track sliding glass wall. Students can engage in lectures indoors while a different group immerses in kinetic, collaborative learning outdoors through seamless, ADA compliant transitions.





UP TO UNIT
STC 43



PROJECT HIGHLIGHT

LUBBOCK COOPER EAST ELEMENTARY

LUBBOCK COOPER EAST ELEMENTARY SCHOOL

Location: Lubbock TX

Architect: Parkhill

Product: NanaWall HSW60

“

Over the course of my career, a lot of teachers have told me, ‘If I could just knock that wall down so I could collaborate with my fellow teacher, I could get so much more done and make learning so much more relevant.’

”

—Lubbock-Cooper Independent School District Superintendent Keith Bryant

The Pre-K wing was designed to act as an instructional tool for teachers to easily access resources within a fully contained, communal wing for the youngest learners. Four individual classrooms were arranged in a quadrant design with their respective corners opening into a unifying hub. All classrooms feature four-paneled NanaWall HSW60 single track sliding glass walls that glide effortlessly around corners and store out of the opening due to an intelligently guided roller system.

DARTMOUTH MIDDLE SCHOOL

Architect: American Modular Systems
Location: San Jose CA
Product: NanaWall SL70

In collaboration with American Modular Systems, Union School District built a free-flowing, time and cost-effective modular building with four STEM classrooms and learning labs. Multiple folding glass walls are leveraged between each classroom to optimize space and collaboration while exterior systems extend learning opportunities to the outdoors.



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STC 42



UP TO UNIT
STC 42



REEDS SPRING MIDDLE SCHOOL

Architect: Dake Wells Architecture
Location: Reeds Spring MO
Product: NanaWall SL70

Reeds Spring engages students in a flexible, informal academic environment while embracing its district's goal to integrate technology, collaborative spaces, and safety. Classrooms feature opening glass walls that maximize square footage and repurpose hallways into additional learning space. The floor supported system negates the need for bulky headers, allowing for transoms to maximize daylight.



UP TO UNIT
STC 34



PROJECT HIGHLIGHT

SANDERS MEMORIAL ELEMENTARY

SANDERS MEMORIAL ELEMENTARY SCHOOL

Location: Land O' Lakes FL

Architect: Williamson Design Associates

Product: NanaWall SL45 FoldFlat

“

The acoustical attenuation, even when the NanaWall systems are partially closed is phenomenal. We're finding teachers are using them all the way open, halfway open, all the way closed and that is our purpose—to give teachers that flexibility.

”

—George Tharin, RA, Williamson Design Associates

Sanders Memorial is a STEAM magnet school where traditionally sized classrooms extend into a large communal area serving as additional space for collaborative, hands-on activities. As an integral component of the design, opening glass walls specified with FoldFlat® technology optimize every inch of space with panels that fold all the way back and parallel to the opening.

LUBBOCK COOPER HIGH SCHOOL

Architect: Parkhill
Location: Lubbock TX
Product: NanaWall SL70

A growing Career and Technical Education program demands the need for a dedicated, flexible space. Steering away from traditional classrooms, the CTE building offers students real-life career environments with unconventional academic spaces. At the Culinary Arts center, a multi-paneled folding glass wall allows students to extend space into the hallway to mimic an authentic restaurant atmosphere.

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STC 42



UP TO UNIT
STC 34



HADLEY JUNIOR HIGH SCHOOL

Architect: FGM Architects
Location: Glen Ellyn IL
Product: NanaWall SL45

What was once a single-purpose library space was revitalized into a multifunctional learning hub that could facilitate various activities based on the academic needs of students. The room-within-a-room design features a segmented curve folding glass wall specified with paired panels that can be fully or partially opened to extend the square footage based on the needs of the school day.



UP TO UNIT
STC 45



PROJECT HIGHLIGHT

MONSIGNOR FARELL HIGH SCHOOL

MONSIGNOR FARELL HIGH SCHOOL
Location: Staten Island NY
Architect: Studio 16 Architecture
Product: NanaWall NW Acoustical 645



One of the goals of the project was to bring the school into the 21st Century. The Learning Commons was to be not only a fully functional, modern space that would be fully utilized but also an attraction for new students.



—Studio 16 Architecture architect and CEO David Businelli

In a unique application, two folding glass walls were specified to create a room-within-a-room design. This configuration is then partitioned by a third system in a T-intersection to provide maximum flexibility throughout the school day. The transparent, acoustically rated STC 45 systems optimize the once underutilized space to allow for multiple activities to occur without distraction. Featuring a minimal surface mounted sill with just under an inch of exposure, the system achieves ADA compliance and seamless transitions.

AURORA UNIVERSITY

Architect: Cordogan, Clark & Associates

Location: Aurora IL

Product: NanaWall PrivaSEE

The Stephens Collaboration Center leverages a five-panel frameless glass wall that combines two individual classrooms into one collaborative academic space. With patented technology achieving up to STC 36, this acoustically-rated all glass system offers sound attenuation and ease of operation where needed most.



UP TO UNIT
STC 36



UP TO UNIT
STC 34



STANFORD UNIVERSITY

Architect: Boora Architects

Location: Stanford CA

Product: NanaWall SL45

At Stanford's bioengineering department, formal learning spaces meet informal collaboration hubs through the implementation of easily operable folding glass wall systems. Specified paired panels smoothly glide into stacks on either side of the opening to connect two spaces into one while optimizing daylight to create bright interiors.



CAL BERKELEY MEMORIAL STADIUM

Architect: HNTB Architecture, STUDIOS Architecture
Location: Berkeley CA
Product: NanaWall HSW60

With outdoor facing stadium seating, a NanaWall system provides a weather resistant barrier while maintaining an unobstructed view in addition to protecting the seats from the outside elements in the offseason.



ARIZONA WESTERN COLLEGE

Architect: Gould Evans Associates
Location: Yuma AZ
Product: NanaWall SL70

A large opening encourages students to easily enter or exit. Other benefits include reduced heating, cooling, and lighting costs. Fresh air ventilation helps flush poor air quality.

WEST VALLEY COLLEGE

Architect: IBI Group Architecture Planning
Location: Saratoga CA
Product: NanaWall SL70

NanaWall opening glass walls provides expanded event space, ease of indoor/outdoor access, and can easily be configured for classes, lectures, and performances.



MIT HAYDEN LIBRARY

Architect: Kennedy & Violich Architecture
Location: Cambridge MA
Product: NanaWall NW Aluminum 840

Three opening glass walls are employed to create an ambiance that blurs the lines between indoors and outdoors.



UP TO UNIT
STC 42

LUBBOCK COOPER EAST ELEMENTARY SCHOOL

Location: Lubbock TX

Architect: Parkhill

Product: NanaWall SL70

FOLDING GLASS WALLS ENGINEERED TO MEET 21ST CENTURY SCHOOL DESIGN OBJECTIVES.

Range of Unit STC from STC 30 up to STC 45

- **Easy Operation:** Smoothest and easiest operation of any folding glass wall.
- **Flexible Stacking:** Floating panel sets can stack to the left or right with panels inward or outward opening and provide unlimited opening widths.
- **Slim Profiles:** Clean aesthetics with the slimmest profiles available.
- **Glazing Options:** Multiple glazing options are available from clear to opaque.
- **Uninterrupted Transitions:** ADA-compliant sills with a high heel resistant feature.
- **Proven Durability:** Swing doors tested to 500,000 and bifolding panels to 20,000 open/close cycles.

THE ONE AND ONLY NANAWALL

At NanaWall, design is as much about how it looks as how it works. For over 35 years, we have been leading the industry in developing and refining our opening glass walls to create solutions that visually harmonize with space, transform the architectural experience, and provide decades of enduring performance.

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Boundaries **Unbound**[®]

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