



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

“

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 35



◀ **BOOKER T. WASHINGTON ELEMENTARY**

Architect: Cannon Design | **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 | **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

“

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

Architect: Parkhill | **Product:** NanaWall HSW60

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 | **Product:** NanaWall SL45

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.

UP TO UNIT
STC 35



UP TO UNIT
STC 42



REEDS SPRING MIDDLE SCHOOL

Architect: Dake Wells Architecture | **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 35



PROJECT HIGHLIGHT

SANDERS MEMORIAL ELEMENTARY

“

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

Architect: Williamson Design Associates | **Product:** NanaWall SL45 FoldFlat®

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 | **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.



UP TO UNIT
STC 42



UP TO UNIT
STC 35



HADLEY JUNIOR HIGH SCHOOL

Architect: FGM Architects | **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

“

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

Architect: Studio 16 Architecture | **Product:** NW Aluminum 645

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 | **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 35



STANFORD UNIVERSITY

Architect: Boora Architects | **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.



California Memorial Stadium



Arizona Western College

College Sports Venues

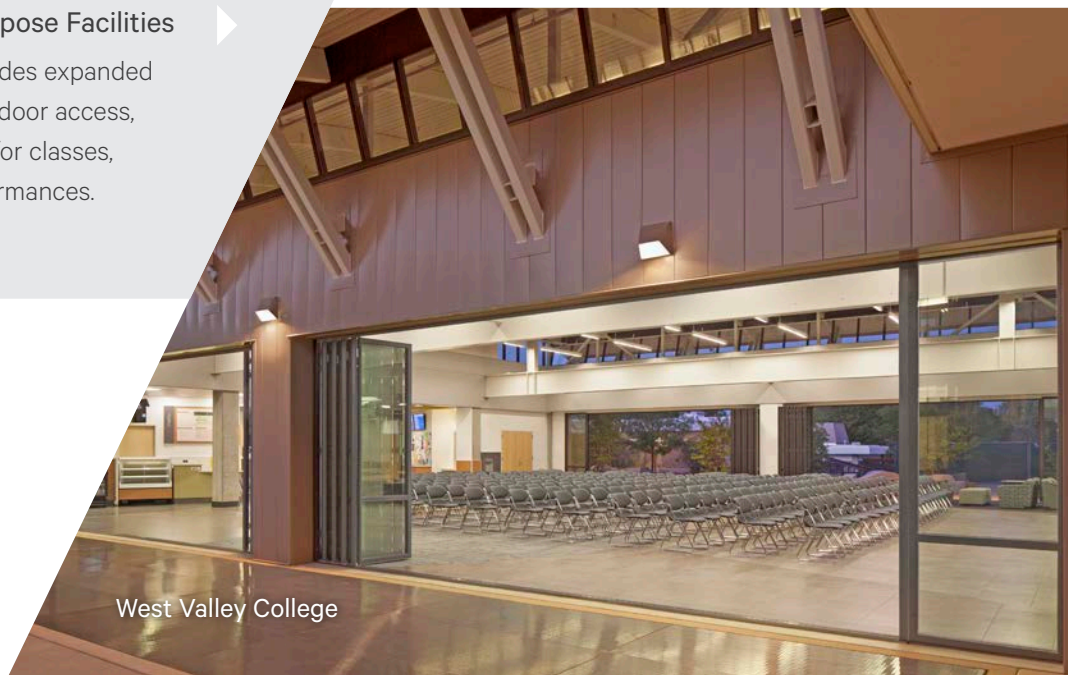
With outdoor facing stadium seating, a NanaWall system provides a weather resistant barrier while maintaining an unobstructed view in addition to protecting the seats from the outside elements in the offseason.

Cafeterias / Food Service Facilities

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.

Auditoriums and Multipurpose Facilities

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



West Valley College



Naperville Public Library

Libraries

Agile and flexible space allows for a multifunctional learning hub that can be redefined based on the library activities creating a room within a room.



Friends Seminary, New York City

NanaWall opening glass walls can be used for both new and renovation education projects of all sizes in virtually any location.

Opening glass walls provide effective design options:

- Flexible spaces for new demands of 21st Century Education
- Ability to address acoustical control
- Opportunity for indoor and outdoor connectivity
- Elegant ways to provide natural daylight, ventilation, and views

THE ONE AND ONLY NANAWALL

Ever since our company's founders created their first folding glass wall in 1986, NanaWall Systems has assumed a leadership position in its industry—working with architects to create new solutions to design problems, challenging itself daily to make its best ideas better, and blending aesthetics with engineering to create a broad portfolio of products for demanding audiences.

NanaWall
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