Wenger®

CORPORATION

BUILD US INTO YOUR PLANS

NEW CONSTRUCTION AND RENOVATION

YOUR MOST IMPORTANT PLANNING COMES LONG BEFORE A SHOVEL HITS THE GROUND. TRUST WENGER'S EXPERTISE TO HELP YOU GET IT RIGHT.

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THE IMPORTANCE OF PLANNING AHEAD

Here's your chance to influence your school's music education, performing arts and athletics spaces for the next generation.

For many educators, a new construction project for your school is a once in a career opportunity. This is the time to recognize the shortcomings of your former building while embracing future opportunities. **Music rehearsal**, **performing arts**, and **athletics** spaces are unique and needs have changed exponentially. The document in your hands right now is your first step in planning, communicating and getting the things your need to make your next project a success.

Over 75 years of experience at your disposal

Wenger's experience working with thousands of educators, architects, acousticians and administrators is unmatched. We understand what it takes to make your school's specialty spaces successful and share the seemingly insignificant design mistakes that can jeopardize their effectiveness.

Free Resources – Wenger has created a series of Planning Guides and Checklists to help you with your new or renovated spaces. These Planning Guides detail the importance of factors like cubic footage, acoustics, floor plans, traffic flow, storage spaces and more. And the Checklists provide equipment suggestions for your spaces.

Scan here to view Wenger's Planning Guides

Scan here to view the Wenger Checklists

CONSTRUCTION PHASES

The following phases are the basic steps in a new construction or renovation project.

Phase 1 – Pre-Planning:

Form your planning committee and define your facility goals. The most successful committees consist of administrators, district officials and educators. Include teacher representatives from non-typical environments such as the fine arts, athletics and music.

Phase 2 – Programming:

Now is the time to create a "big picture" of everything you want your new facility to be. Use the information in our Planning Guides (see back cover) to present ideas to an architect, making clear what is desired, your space requirements and other factors that make the area unique. This is the committee's most important phase, and the gathering of input should begin as soon as possible.

Phase 3 – Schematic Design:

Following the programming documents and budget constraints, the architect will proceed to diagram the facility. They will present drawings in different stages so the planning committee can help fine- tune the design. Be sure to agree upon the final schematic, because any subsequent changes will be more difficult.

Concentrate the majority of your involvement during Phases 1-3. This is when your design takes shape, and trying to alter the design or add ideas later in the process can become expensive.

Phase 4 – Design Development:

The architect next creates blueprints. Exact room dimensions, ceiling heights, door and window locations, and electrical, plumbing, audio visual and mechanical systems, are finalized. These blueprints must be inspected very carefully, because all bidding and construction will be firmly based on this plan. Future changes are very expensive.

Phase 5 – Construction Documents:

Before talking with contractors, the architect will develop construction documents that clearly define what is being built and to what specifications.

Phase 6 – Bidding:

With final blueprints and construction documents in hand, it's time to open the project to bids from general contractors, as well as electricians, carpenters and other subcontractors. After a review of bids, the contract is awarded to a general contractor. Next it's time to buy products — such as storage cabinets, acoustical treatments and pre-engineered practice rooms — installed during construction.

Phase 7 – Construction:

This is the final opportunity to make sure that your facility is being built according to specifications. Visit the site often. And, if something isn't following the agreed-upon plan, be sure to discuss these concerns with the architect and administration.

Phase 8 – Equipment Purchasing:

While the building is being constructed, the furniture and equipment identified in Phase 2 should be specified, bid and purchased — for delivery prior to the school opening.

Phase 9 – School Opening:

Congratulations! It's time to enjoy your new facility.

THE PLANNING PROCESS

Get Wenger On Your Team Early

Wenger has spent more than 75 years designing products and helping thousands of educators and administrators get the most out of their budgets for new construction, renovations, additions, and improvements. We have worked closely with architects and acousticians to make sure they have a trusted resource on the complex issues that arise in designing rehearsal, performance and athletic spaces. And we can collaborate with your planning team — as much or as little as you feel necessary. All you have to do to get us involved is call. Our expertise is free.

The Five Critical Factors

The overall effectiveness of your facility will be largely determined by the following five factors:

Acoustics — How well your rehearsal and performance facilities promote critical listening is directly proportional to how effective it will be.

Floor Plan — An effective layout must successfully integrate adequate floor space, proper traffic flow and easy access to all areas including storage and office space.

Technology – Planning for current and future technology needs will help you maximize your investment.

Storage — This not only protects valuable equipment and supplies, but also affects acoustics and traffic flow.

Equipment – The final step toward guaranteeing a successful new facility.

Decide Exactly What You Need Early In The Process

Certain rehearsal, athletic and performance products will need to be built into your design — or, at the very least, the design will need to accommodate them. Trying to retrofit that design is extremely difficult (and often prohibitively expensive). A good way to decide what you might need to build-in or build-around is to simply make a list of everything you'll want and need to accomplish in each space. Remember, you will never get what you don't ask for.

Build Your Team

EDUCATORS OR END USERS

ADMINISTRATOR

ATHLETIC DIRECTOR OR COACH

ACOUSTICAL & THEATRICAL CONSULTANTS

ARCHITECT

GENERAL CONTRACTOR

Building a team that communicates regularly is a great way to ensure you get the best facility possible. Make sure to include not just the individuals that will be using the finished spaces regularly, but also outside experts like architects, acousticians, and theatrical consultants who bring years of experience to the table. Wenger's Planning Guides will also help you focus on complex issues you may have otherwise overlooked.

MUSIC EDUCATION SUITE

Essential Sound Dynamics

The Music Education Suite is one of the most complex environments within a school. It requires a variety of areas, each requiring its own dynamics. From the sound isolation required for practice rooms to the unique seating arrangements needed for band, orchestra and choir; from the specific heights of each ceiling to understanding how to craft the precise acoustics of each room. All of these decisions need to be made early in the process as they will not just affect the design, but will directly affect how well teachers and musicians benefit from the space. First steps include:

- ✔ Determine how many sound-isolating Individual practice rooms will be needed for rehearsal and private lessons.
- ✔ Consider including Active Acoustic Technology to dramatically enhance learning. Or, plan ahead for future technology integration.
- ✔ Carefully plan and calculate the current and future storage needs for instruments, sheet music, uniforms, marching band and other equipment your program utilizes.

Wenger Solutions

Chairs & Stands

Choral Risers

Choral & Band Folio Cabinets

Conductor's Equipment

Instrument Storage Cabinets

Markerboards & Tackboards

Move & Store Carts

Music Library System

Lab Workstations

Percussion Workstations

Portable Acoustical Shells

Rehearsal Room Acoustical Panels

StageTek® Staging & Seated Risers

Rack 'n Roll® Garment Rack

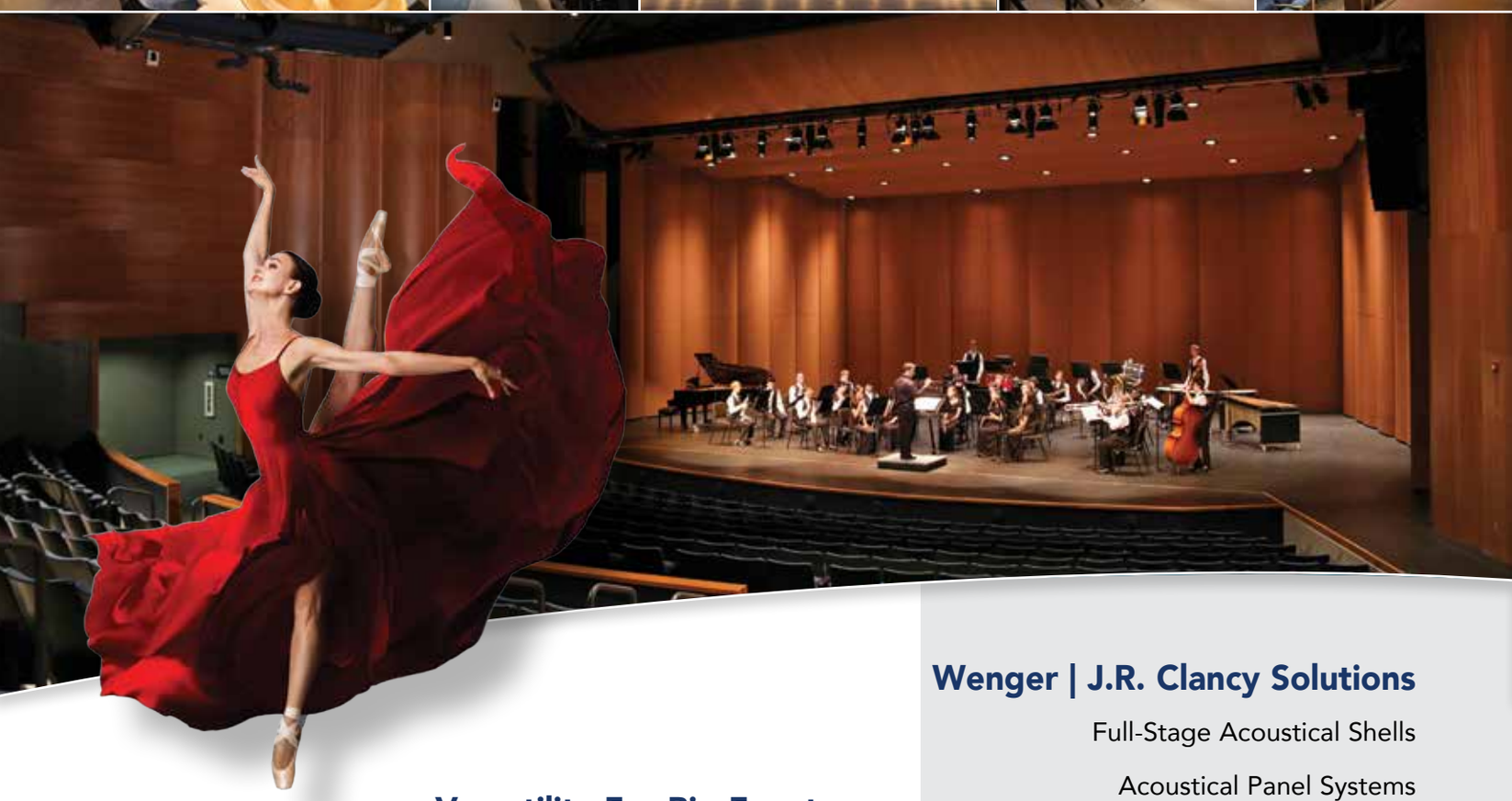
Stringed Instrument Racks

Virtual Acoustic Technology (VAE®)

PERFORMING ARTS SPACES







Versatility For Big Events

Performance areas need to be versatile enough to accommodate multiple uses — music, theatre, school and community events — and must be designed accordingly. They often must accommodate large, expensive pieces of equipment and they must be acoustically balanced. It's a complicated design task that requires expert assistance. First steps include:

- ✔ Consider whether one large multi-use performance space can accommodate your needs or will the addition of a black box space or portable stage systems be needed?
- ✔ Plan for the acoustic needs of a wide range of activities and performances. Consider not just wall and ceiling acoustics but a full-stage acoustical shell as well.
- ✔ Understand rigging options based on both current and future needs while also understanding safety, versatility and operators.
- ✔ Don't forget integration of all house, stage, accent and other lighting.
- ✔ A theatre consultant can help an owner and architect sort out early critical design factors when creating a new performance space.

Wenger | J.R. Clancy Solutions

Full-Stage Acoustical Shells

Acoustical Panel Systems

Acoustical Banners

Manual & Automated Rigging Systems

SoundLok® Sound Isolation Rooms

STRATA® Orchestra Pit Filler

StageTek® Staging

Audience Seating

Studio® Makeup Station

Active Acoustic Systems

Storage Solutions

Custom Solutions

ATHLETIC FACILITIES

The Game Has Changed

Equipment rooms, locker rooms, coaches offices and laundry facilities within your new athletic space all have unique requirements. Small, poorly ventilated lockers and equipment rooms stuffed with storage boxes are a thing of the past. Athletic programs have taken a giant leap forward in recognizing the need to protect and manage equipment and uniforms in spaces that promote organization and efficiency. First steps include:

- ✔ Revamp storage space to emphasize space management, organization, security and equipment access.
- ✔ Recognize the importance of equipment cart mobility both indoors and out.
- ✔ Prioritize locker airflow for drying uniforms while also emphasizing ergonomic space, security for personal items and integrated seats to eliminate benches.
- ✔ Create team spaces that promote pride, unity and efficient traffic flow.

GearBoss® Solutions

AirPro® Athletic Lockers

X-Cart & Team Carts

GearBoss® II

Workstations

Sport Cart™

Shelving

Transport Carts

Coaching Podiums

Mobile Kiosk

You can learn more about what questions to ask by making use of our Planning Guides (see back page) and talking to your Wenger representative. We have the depth of experience to help you determine exactly what you need, where it should go, and how you can make it an integral, effective part of your design.

THE MOST COMMON NEW CONSTRUCTION/ RENOVATION MISTAKES:

1. **Rooms that are too small** (i.e. based on standard classroom square footage recommendations). Music and performing arts require additional cubic volume per student.
2. **Ceilings that are too low.** Standard height ceilings can have disastrous effects on acoustics and your hearing.
3. **Not enough storage.** Plan realistically for today's storage needs and tomorrow's.
4. **Poor traffic flow.** Students need to enter and exit within minutes — often with large instruments. Keep congestion to a minimum.
5. **Acoustics not taken into consideration.** Wall shape, ceiling height, sound absorption and diffusion panels and dozens of other factors all need special consideration.
6. **Poorly designed floor plan.** Loud performance rooms that back up to each other can easily allow distracting sound leakage.

FREE PLANNING GUIDES:

Wenger Planning Guide For School Music Facilities
Everything you need to understand the new construction process and what you can do to make sure your new music facility is the best it can be.

Wenger Acoustic Primer
The ideal resource to help you understand how acoustics work within a space so you can achieve the best possible sound quality.

Wenger Acoustic Problems and Solutions Guide
A guide to understanding how to identify and resolve acoustics issues.

Wenger Planning Guide For Performance Spaces
An illustrated guide to the complexity of auditoriums and their acoustics.

Wenger Rigging Guide
Understand rigging principles and the types of rigging solutions.

Wenger Elementary Music Planning Guide
What you need to know if you're planning space for beginning students.

Wenger Athletic Facility Planning Guide
A "best practices" guide for achieving greater efficiencies within the athletic equipment facility.

Don't Hesitate To Take Advantage Of Our Expertise

Wenger has the tools you need to help ensure that you build the best possible facility. In addition to working with acousticians, theatrical consultants, and other members of your design team, we are a registered American Institute of Architects (AIA) CES provider offering HSW Learning Units through our continuing education courses.

Building a new facility is challenging enough. Wenger provides resources to ensure you make the right decisions at the right time. Contact your Wenger representative for more information or visit www.wengercorp.com.

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