

RETRACTABLE



ferco
SHUTTERS & SEATING



INTRODUCTION

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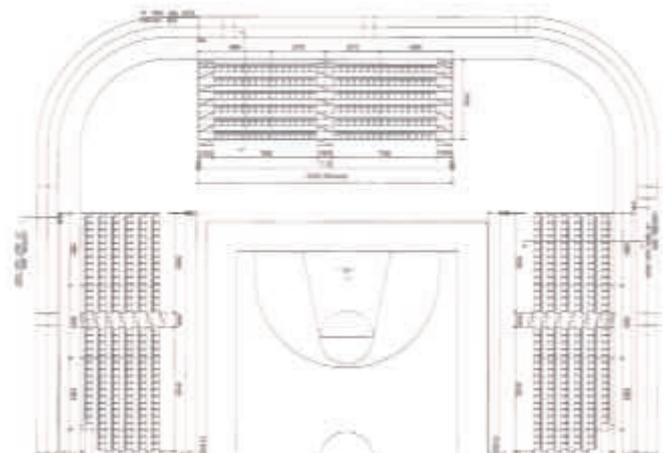
With three decades of experience, Ferco has installed over a million seats in over 32 countries worldwide. From installing Singapore's first retractable system at the World Trade Centre (now HarbourFront Centre) to Ferrari World in the UAE, we are specialists in the supply and installation of retractable systems for schools, sports arenas, corporate spaces and entertainment venues.

Ferco's retractable systems gives architects, consultants and users the freedom to open up space when required, transforming seated sporting arenas into multi-purpose halls in a matter of minutes.

Each system is tailor-made to suit the project and space requirements, with a range of options for seats and peripherals. Get in touch with us to configure a system that transforms your space!

GUARANTEED PERFORMANCE

Our precisely manufactured retractable systems are designed for durability and reliable performance with minimal maintenance over its lifetime. Each system installed is guaranteed to perform with a 10 year warranty for the understructure after being signed off by our engineers.



effective space management

safe, strong & reliable systems

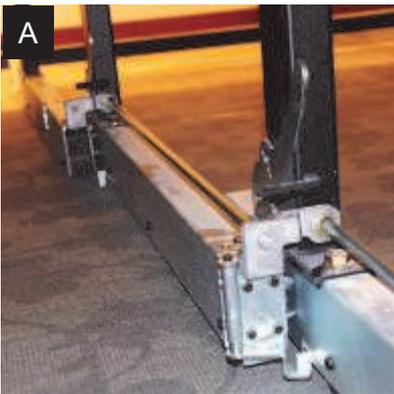
easy to install, operate & maintain

precisely manufactured & customized

configured for various applications



ADVANCED FEATURES



SAFE LOCKING AND STRAIGHT GUIDANCE (A)

Safety is of utmost importance when operating a retractable system. With the highest safety standards in mind, our system is manufactured with a dual locking mechanism that is activated when both, extending and retracting. Made from heavy duty spring loaded steel, this ensures that each platform extends and retracts individually and safely. Our guide rollers are tested to ensure that the system stays straight and true to its path, every time you operate it.



STRONG AND DURABLE CONSTRUCTION

Using heavy gauge powder-coated (USEPA standards) steel for the understructure, the system is designed to be robust and strong. A self-supporting structure for each deck designed with a combination of inclined and horizontal braces ensures a world class system that can be used for years to come.

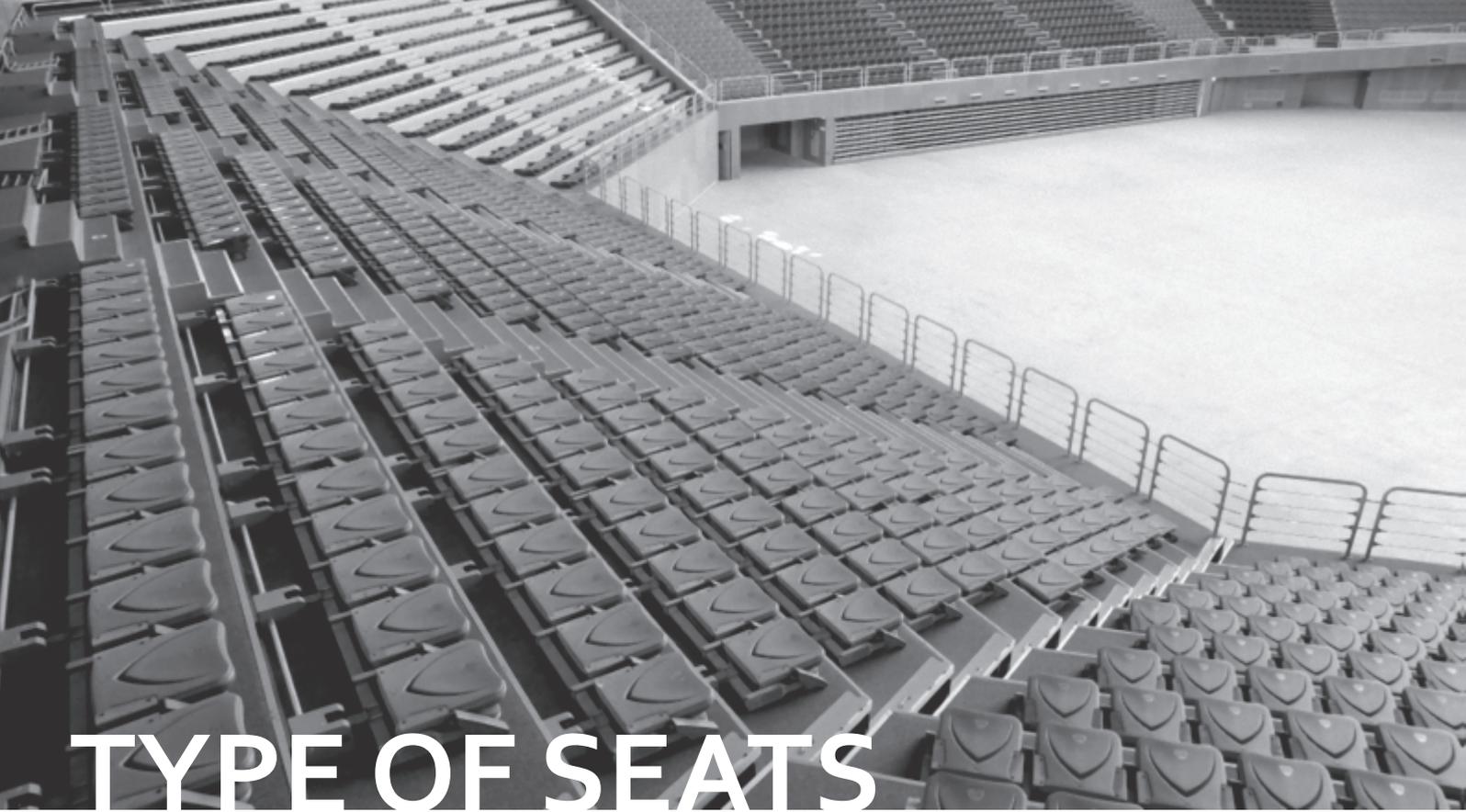


ADJUSTABLE (B)

If over time there are minor changes to the level of the decks, double adjustable girders are provided at several points to keep the system running smoothly and quietly over its lifetime.

FLOOR PROTECTION (C)

Having tested higher than industry standards, our platforms use a larger number of wider wheels that are positioned to provide more earthing points. This means a more efficient spread of load. The wheels are covered with soft polyurethane to reduce the risk of damage to the flooring or carpeting.



TYPE OF SEATS

TIP UP SEATS



TB Series (PAGE 8)
Pictured above: Model TBF



ARC Lite Compact (Page 12)



FCB-M (PAGE 14)

The seats and armrests automatically tilt upwards when people stand up. On retraction of the system, the seats fold down and are neatly tucked away. This seat type provides the maximum amount of walking space for the audience.

FOLD DOWN SEATS



FD Series (PAGE 16)
Pictured above: Model FDF-WW

These seats are a little more economical than tip up seats. The backrest folds down upon retraction of the system. Upon extension, spectators will lift the backrest to an open position.

BENCHES

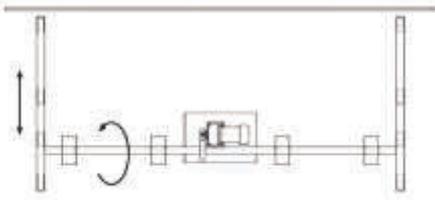


BN Series (PAGE 20)
Pictured above: Model BNP1

Bench type seats provide the easiest maintenance, and provide the most flexibility and seating capacity in small spaces. These benches can be provided with optional backrests.



SYSTEM OPERATION

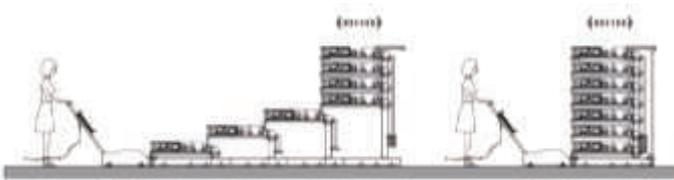


Remote Control

Can be operated via a wired or wireless remote control pendant.

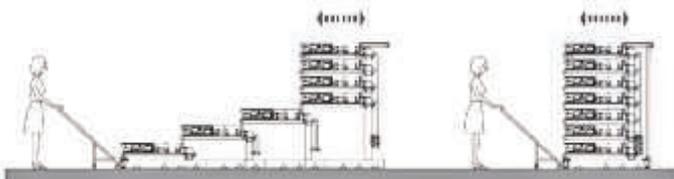
AUTOMATIC (MOTOR) OPERATION

Four wheel or six wheels per unit on a shaft with a geared motor to smoothly extend or retract the system. The wide earthing points allows a safe mode of operation and provides additional protection to the flooring.



PORTABLE ELECTRIC PULLING UNIT

A motor is equipped on a special operated cart. When extending or retracting the system, the operating cart must be connected to the first deck.

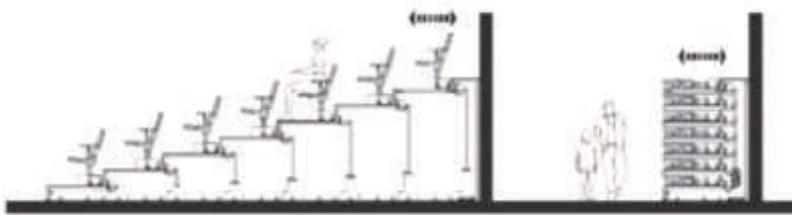


PORTABLE MANUAL PULLING UNIT

There are no electrical parts on the manual pulling units. When extending or retracting the system, the manual pulling trolley must be linked to the first deck of the system where it is pulled automatically.

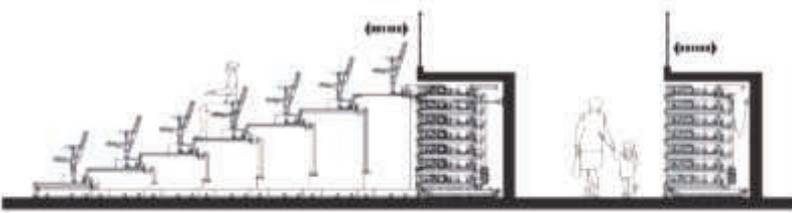


SYSTEM STORAGE



WALL ATTACHED

The last row of the system is either fixed on the floor, behind a wall or both. The system will subsequently extend one deck at a time from the first row.



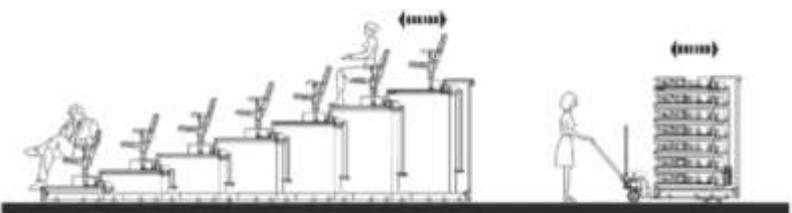
WALL RECESSED

The wall recessed system can be stored under the cantilever. When the system is extended, it is guided until the end of the cantilever and subsequently extends one deck at a time from the first row.



FORWARD RETRACTED

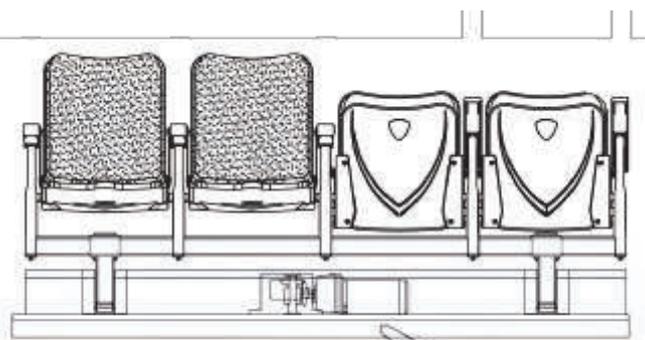
The first row is fixed onto the floor whereas the last row is extended to the back and retracted to the front direction.



MOVABLE TYPE

The system can be moved to other places using a special portable trucking trolley. The system should be completely retracted prior to the system being moved to the desired location. Once the system is moved to the designated area, the system can be extended or retracted manually or automatically.

OPERATION OF SEATS



AUTOMATIC UP-DOWN MECHANISM

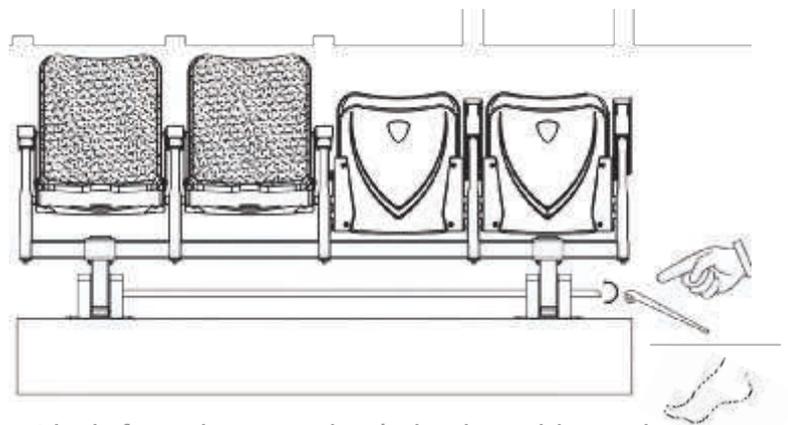
The seats on each deck are raised up or down by motorized operation as the system opens and closes. The motor and gear box are located under the seats and are completely covered by a folded steel plate to ensure safety of the audience. A bank of around 10 seats can be linked to operate together.



The operating mechanisms are neatly enclosed in a box under the bank of seats, providing a neat look and finish

MANUAL UP-DOWN MECHANISM

The seats are raised up or down manually using a crank bar or a foot pedal. The bar locks or opens the device which is located below the operating box. For ease of operation and safety, we recommend not more than 4 to 5 seats being linked together.



A bank of around 4 seats can be raised up, lowered down and locked in place using a crank level or a foot pedal.

TB SERIES



TBF

These are fully upholstered seats. The seat and backrest are cushioned with a thick foam padding covered in fabric upholstery.



TBF-WW

The seat and backrest are cushioned and upholstered with fabric. The outer shell of the seat and backrest is made from plywood with a beech veneer.

TB SERIES



TBF-PP

The seat and backrest are cushioned and upholstered with fabric. The outer shell of the seat and backrest is made from HDPE plastic.



TBP

These seats are made from blow-moulded HDPE (High Density Polyethylene) and marry the concepts of hardness and ease of maintenance with ergonomic comfort.

TB SERIES ACCESSORIES



Writing Tablet



Armrest



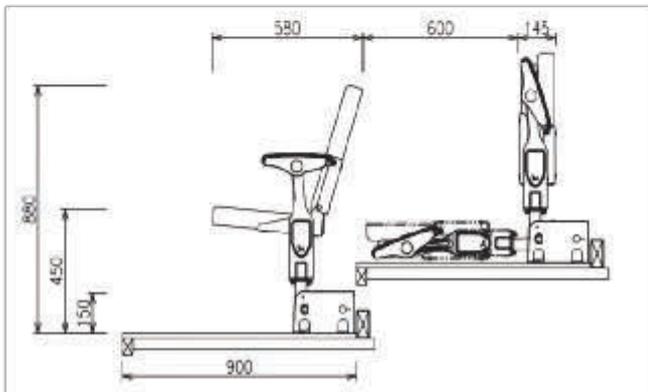
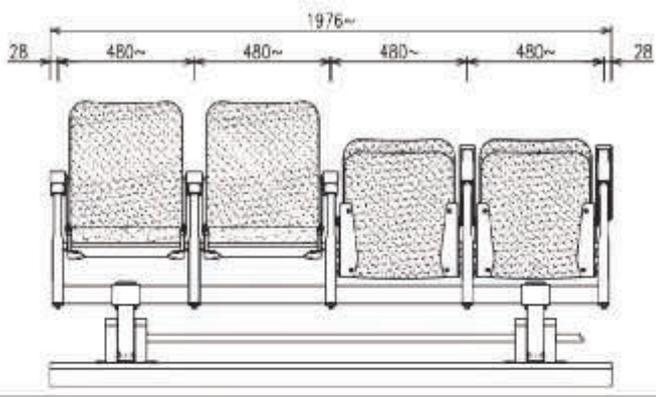
Cup-holder



Seat Numbering



TB SERIES



DESCRIPTION

- Seat and Backrest Upholstered Cushion / HDPE Plastic
- Seat Shell & Backrest Shell Upholstered / Plastic / Wood
- Centre to Centre Model Dependent
- Tip Up Mechanism Counterweighted
- Support Powder Coated Die Cast Aluminum
- Bracket Powder Coated Folded Steel Plate
- Horizontal Bar Powder Coated Rectangular Steel Pipe

TB SERIES



System in stored position



System in stored position



System being extended.



System being extended.



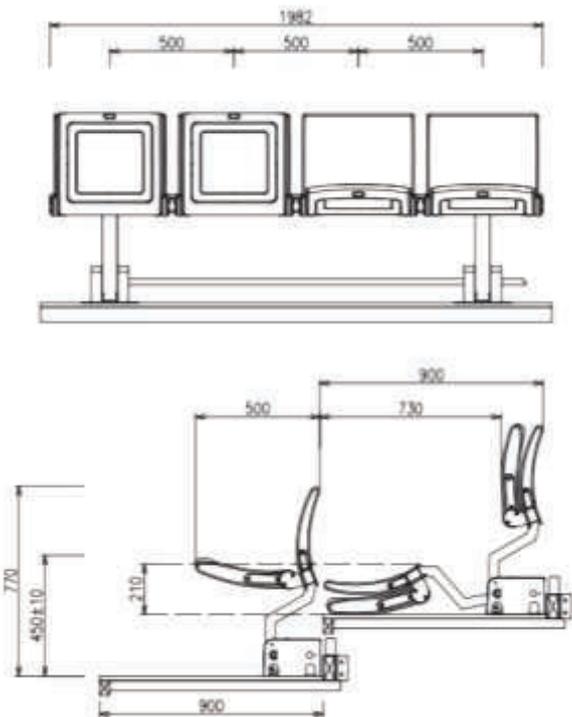
System ready for use!



System ready for use!

ARCLITE COMPACT

The ARC is a group of fixed stadium seats designed to encompass everything from the bucket type to the plush VIP style. Already successfully installed at prestigious venues like Hoffenheim's Rhein Neckar Arena, Dubai Sports Complex and Stuttgart Mercendez Benz Arena, the telescopic ARC Lite Compact was developed to provide retractable seating solutions for venues that require flexibility.



DESCRIPTION

Tip Up Mechanism Counterweighted

Seat and Backrest Blow Moulded Polypropylene or Polyethylene

Bracket Powder Coated or Galvanized

Centre to Centre 500mm

ARCLITE COMPACT

Hoffenheim Rhein Neckar Arena



Dubai Sports Complex

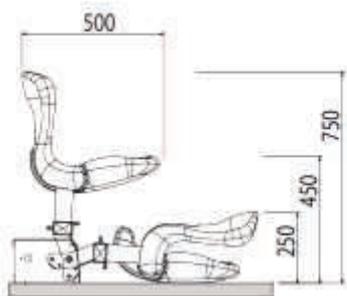
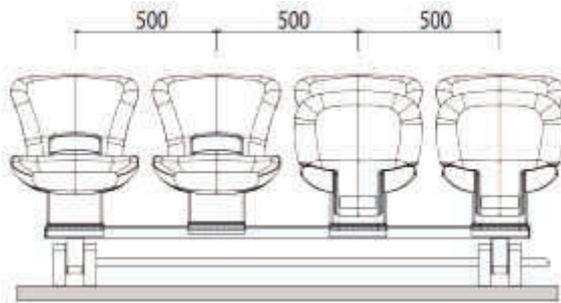


TIP UP SEATS

FCB-M

Like the ARC family, the telescopic FCB-M is the retractable solution for the FCB family.

Originally designed by Herzog & de Meuron for Munich's Allianz Arena, this compact seat has already been installed at various parts of the VIP section of Manchester United FC Ahoy Arena at Rotterdam, to the Salzburg Red Bull Arena in Austria.



DESCRIPTION

Tip Up Mechanism Counterweighted

Seat and Backrest Polypropylene Blow Moulded

Bracket Powder Coated or Galvanized

Centre to Centre 500mm



FCB-M

Debrecen Swimming Centre, Hungary



Reyno de Navarra, Spain



Munich Allianz Arena, Germany





FD SERIES



FDP

These seats are made from blow-moulded HDPE (High Density Polyethylene) and marry the concepts of hardiness and ease of maintenance with ergonomic comfort.



FDF-WW

The seat and backrest are cushioned and upholstered with fabric. The outer shell of the seat and backrest is made from plywood with a beech veneer.

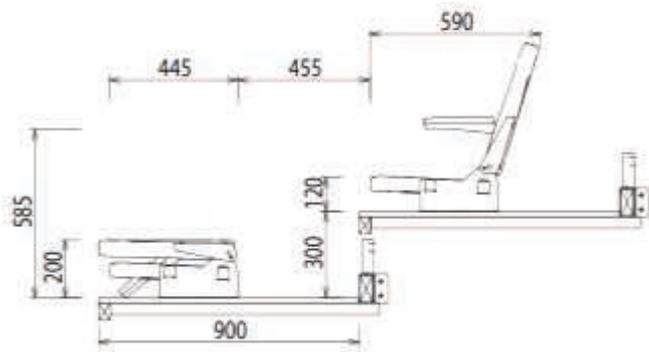
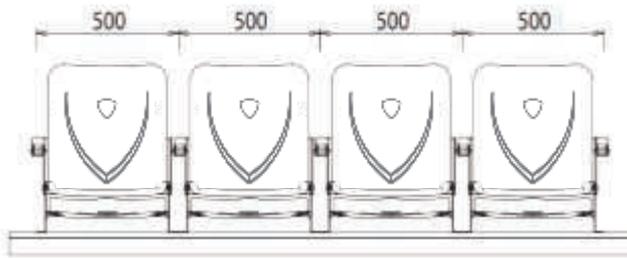


FDF-PP

The seat and backrest are cushioned and upholstered with fabric. The outer shell of the seat and backrest is made from HDPE plastic.



FD SERIES



DESCRIPTION

Seat HDPE or Upholstered Fabric

Seat and Backrest Model Dependent

Bracket Powder Coated Folded Steel Plate

Centre to Centre Model Dependent

FD SERIES ACCESSORIES



Cup-holder



Armrest

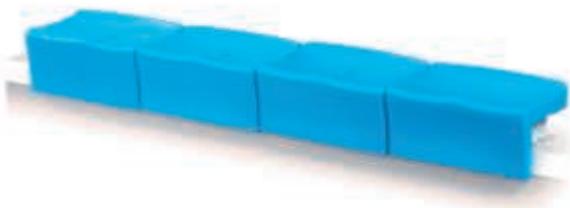


Seat Numbering

BENCH SEATS



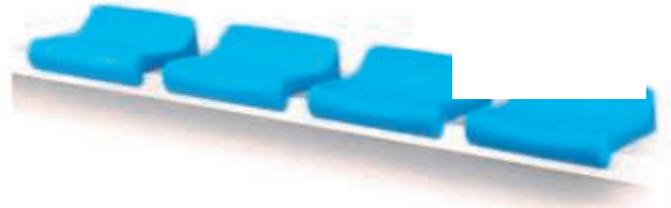
BN SERIES



BNP 1

DESCRIPTION

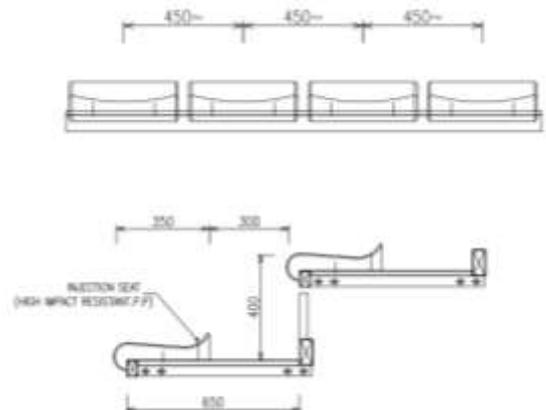
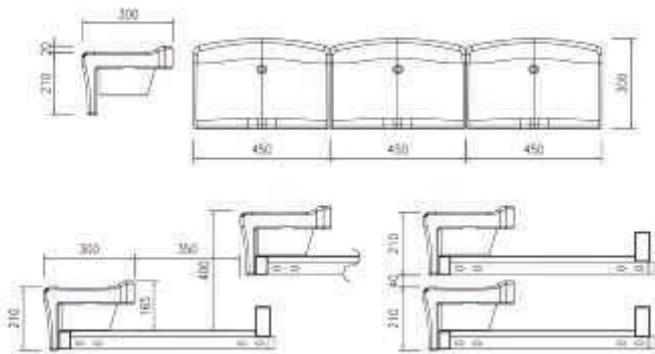
Seat High Density Polyethylene Blow Moulded (HDPE)
 Bracket Powder Coated Folded Steel Plate (1.6mm thick)
 Centre to Centre 455mm to 550mm

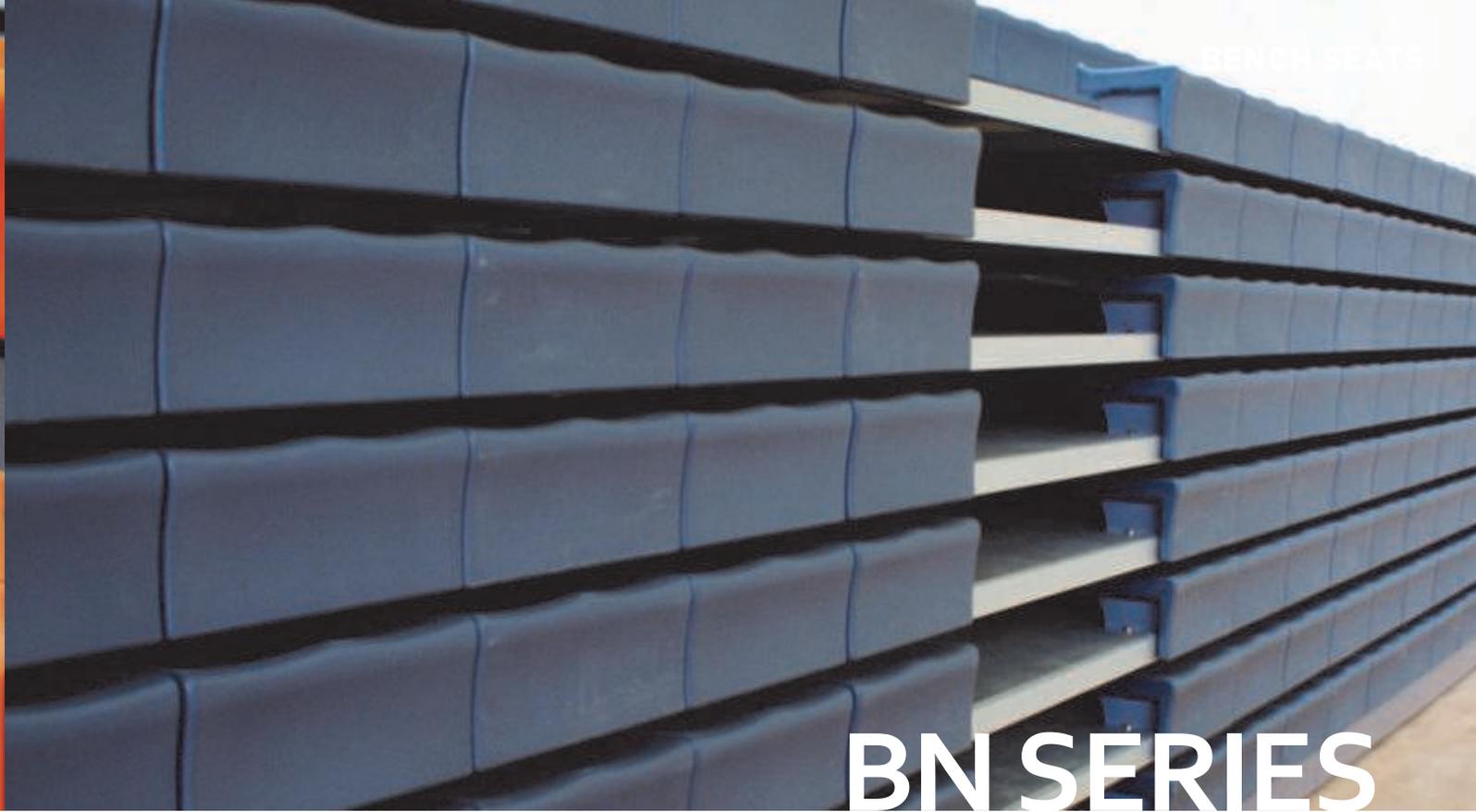


BNP 2

DESCRIPTION

Seat High Impact Resistant Polypropylene Injection
 Bracket Powder Coated Folded Steel Plate (1.6mm thick)
 Centre to Centre 450mm to 550mm





BN SERIES



BNW

DESCRIPTION

Seat Wooden Bench (HPM on 18mm plywood)
Bracket Powder Coated Folded Steel Plate (1.6mm)
Centre to Centre 450mm to 550mm



Optional Wooden Backrest



BNF

DESCRIPTION

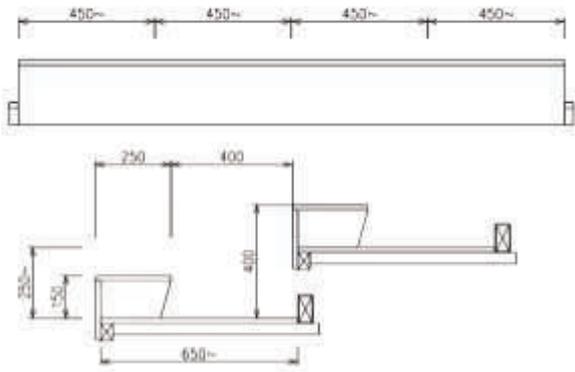
Seat Wooden Bench (HPM on 18mm plywood) covered in upholstered padded fabric.
Bracket Powder Coated Folded Steel Plate (1.6mm)
Centre to Centre 455mm to 550mm



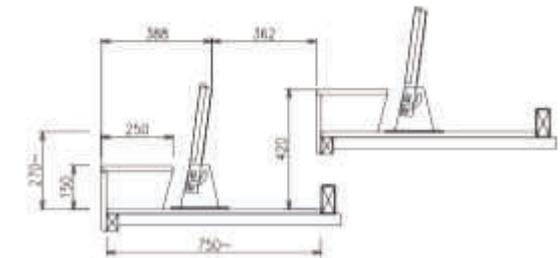
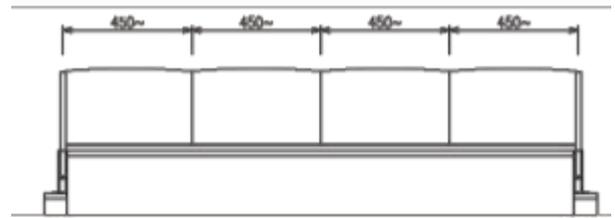
Optional Upholstered Backrest



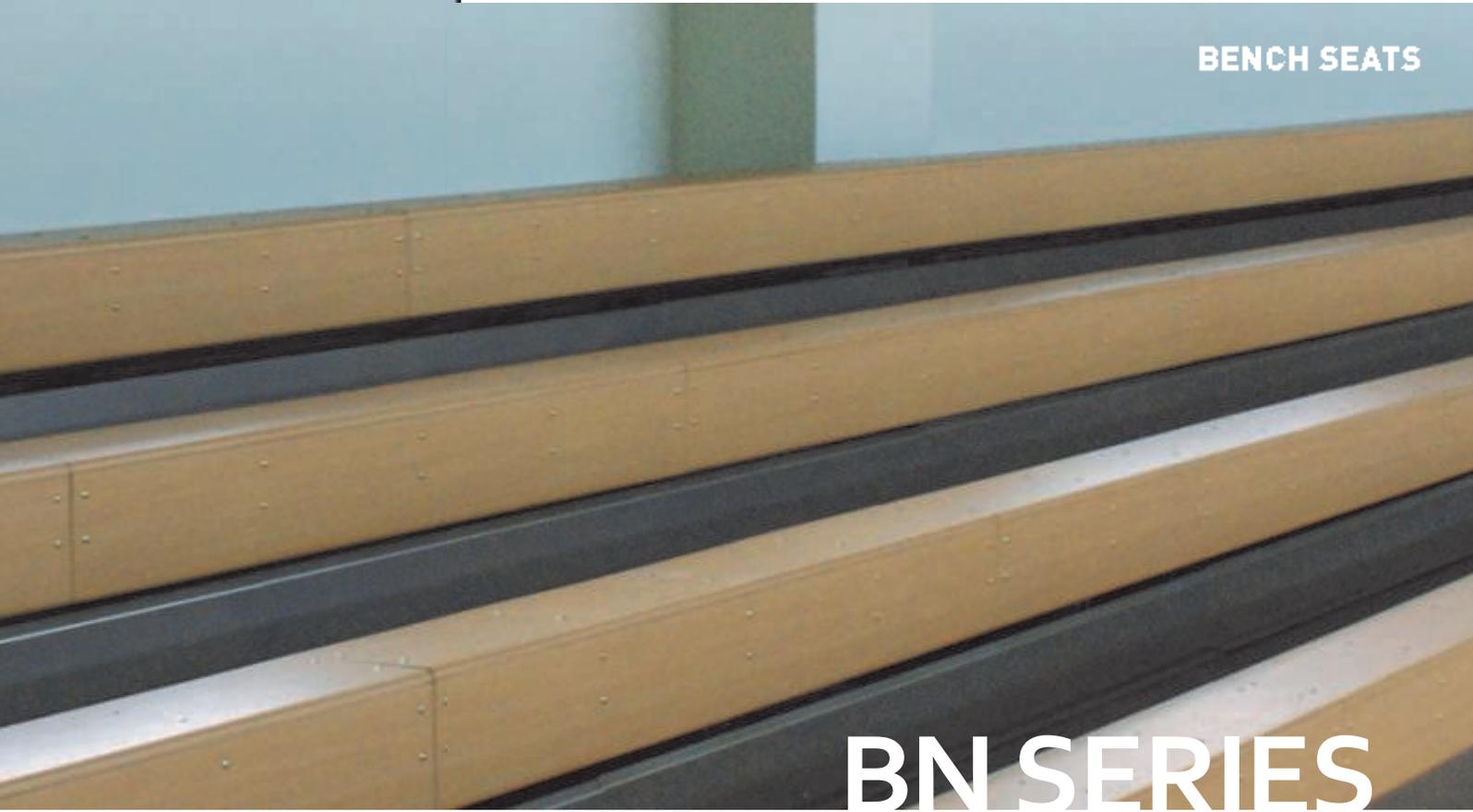
BN SERIES



BNW without optional backrest



BNF showing optional backrest

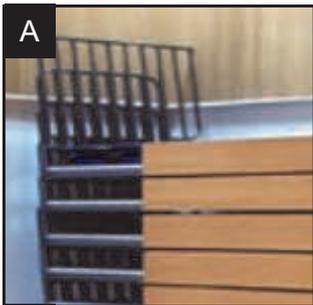


BN SERIES





SYSTEM OPTIONS



A

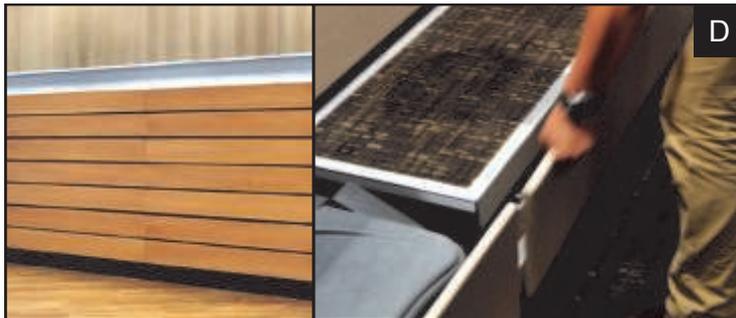


B



C

- (A) **Self storing guide rails** retract with the system.
- (B) **Removable guide rails** need to be manually removed before operation.
- (C) **Folding guides** fold down onto the deck and can be retracted safely with the platform for storage.



D



E



F

(D) **Fascia panels** provide a pleasing aesthetic when the system is in storage and protect the system when in storage.

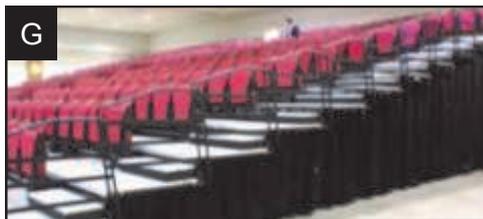
(E) Motorized systems are provided with a covered plug at the front of the unit to attached to the wired **remote control**.

Operating the system is as easy as pushing the buttons on the remote to extend and retract the system. Optional buttons to raise and lower the seats are provided if automatic seat operation is chosen.

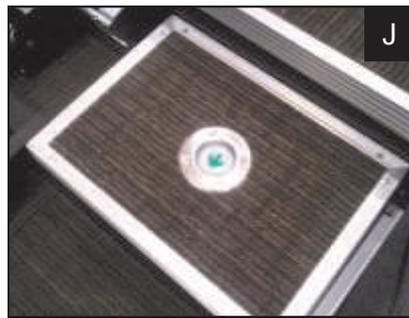
(F) **Stackable FORTUNE chairs** with porting trolley. These chairs are light, very resistant to damage and designed for flexible comfort. These chairs can be ported to location and stored away quickly with its trolley. With a unique linking mechanism, these chairs can be used individually or linked together to create a row of seats.



SAFETY OPTIONS



(G) Removable **side drapes** to hide the understructure and prevent unauthorized entry.



(J) **Aisle lights** with non-slip aluminum nosing are recommended for spectator safety.



(H) An warning **audio** alarm and **strobe light** are added safety features, that activates when the system is being operated.



(K) **Obstacle sensors** mounted on the leading platform automatically stop operation when an obstruction is detected and resumes when clear. Additional safety measures include sirens and warning lights.



(I) All retractable systems are provided with a demountable half step for the first row of the unit.

