CONTENTS

Planning & Technical Advisory Service 4
What is Retractable Seating 4
Why use Retractable Seating 4
Selection of Retractable Tiered Seating 5
Acromat Retractable Seating Definitions 5

Platform & Seat Selection
S10  Stadium Seating for Indoors or Outdoors 6
S20  Sport Stadium & Assembly Hall Seating 8
S60  Theatre & Auditorium Seating 10
S80  Auditorium Seating 12
S100 Auditorium Seating 13

Seating Gallery 14

Platform Specifications 52
Seat Specifications 54
How to Estimate Seating Capacity 56
Standard Dimensions 56

Seating - Fixed Platforms 57

Seats & Benches Wall Mounted 57

Staging
Modular Stages 58
Roll-Out Stages 60
Retractable Stages 61
Mobile Under-Stage Storage Trolley 62
Acromat is known at the highest level among the international athletics community for excellence in the design and manufacture of gymnasium and sporting equipment. We are equally selected to design and manufacture innovative fixed, mobile and retractable seating solutions for stadia and auditoria. It is our planning and advisory service which sets us apart. As the Sydney Olympics and Sydney Opera House did, you also can benefit from the same level of expertise, care and excellence.
Planning and Technical Advisory Service

When preparing seating for your venue, it is critical to incorporate the platform design in the planning stage. This will ensure your seating conforms to the anticipated functions of the facility.

*Step 1*

**Budgeting**

1. Select the platform system, S10, S20, S60.
2. Select the seat you require.
3. Use the charts to estimate number of seats and establish approximate dimensions.
4. Contact Acromat for the latest budgeting prices.
5. Multiply budgeting prices by the number of seats to arrive at an approximate cost.

*Step 2*

If you are happy with budgeting price ask Acromat to provide, free of charge or obligation,

- Seating layouts
- Cost estimates
- Estimated floor loads.

Acromat will require the following to provide these services:

- Anticipated patterns of usage
- Desired spectator capacity
- Drawings of building:
  - Floor plan
  - Internal wall elevations
  - Sections of floor, walls and ceiling
- Your selection of platform
- Your selection of seat
- Your special seating requirements.

What is Retractable Seating

Acromat retractable seating is rows of tiered platforms that can easily store away when the area is to be used for other purposes.

Each platform stores under the one above minimising storage area.

Specially designed folding seats fit to the platform and remain on the platform when stored.

Why use Retractable Seating

Retractable tiered seating offers:

- Optimum use of facility space
- Savings on land and building cost
- Increased revenue potential
- Fast and imaginative seating arrangements
- Comfortable and optimum viewing for patrons.

Photos,
Acromats premium seating solution for the Sydney Opera House.
Selection of Retractable Tiered Seating

Portable retractable tiered seating

> The ability to alter seating layouts can be critical to the success of theatre, conference and sporting events.
> Portable retractable seating can be moved quickly and easily to new locations within the building.
> Portable retractable seating can be moved by mechanical trolleys, airlift trolleys or fork-lifts.
> The length and number of platforms are limited by the total weight, floor type and the method of transport.

Fixed retractable tiered seating

> The ability to allow full utilisation of the available floor area quickly and efficiently.
> Units can be divided into smaller sections for manual operation with limited rows or motorised to allow unit to extend and retract as one.
> Motorised fixed units allow increased number of rows, up to 20 and increased length up to 40 metres with standard designs.

Acromat Retractable Seating Definitions

Platform Definitions

> Platform width - the distance in millimetres from front to back. Standard dimensions used in this catalogue are minimums. All platform widths can be increased to suit customer’s requirements.
> Platform length - measured in millimetres from end to end of seating. The number of chairs in a row will determine the platform length.
> Rise - the vertical distance measured from one platform to the next. The rise dimensions in this catalogue are minimum with standard designs. The rise can be decreased for special applications. This usually will increase cost. The rise can be increased to improve sight lines or to fit building dimensions.

Seat Definitions

> Seats manual operation - chairs are ganged in threes and twos. A foot-controlled mechanism allows the seats to fold into the stored position.
> Seats automatic operation - chairs are ganged on a continuous beam. A push-button system automatically raises and lowers the chairs.
> Seat fully upholstered - seat and back are covered with a slide-on cover and zipped closed.
> Seat with upholstered inserts - seat and back have an upholstered pad only on the front surfaces.
> Seat centres - the distance between seat centres adjacent to each other. Catalogue uses the minimum seat of 460mm. Seat centres can be increased to improve comfort.

Handrails

> Handrails removable - panel type design to suit sockets in the platform. Side handrails must be removed to retract unit.
> Handrails fixed - panel type design bolted to the platforms. Side handrails retract with the platform.

Seat Definitions

> Seats manual operation - chairs are ganged in threes and twos. A foot-controlled mechanism allows the seats to fold into the stored position.
> Seats automatic operation - chairs are ganged on a continuous beam. A push-button system automatically raises and lowers the chairs.
> Seat fully upholstered - seat and back are covered with a slide-on cover and zipped closed.
> Seat with upholstered inserts - seat and back have an upholstered pad only on the front surfaces.
> Seat centres - the distance between seat centres adjacent to each other. Catalogue uses the minimum seat of 460mm. Seat centres can be increased to improve comfort.

Handrails

> Handrails removable - panel type design to suit sockets in the platform. Side handrails must be removed to retract unit.
> Handrails fixed - panel type design bolted to the platforms. Side handrails retract with the platform.
The use of cost-effective construction makes this seating outstanding value. The audience is seated at the front of the platform with their feet on the platform below. The platforms may be used without seats or for increased comfort a bench seat is fitted. For swimming pool areas of high humidity or external seating, platforms are made of a waterproof material with non-slip surfaces. The steel structure is hot dipped galvanised to protect from corrosion.

Minimum dimensions are shown using standard construction. Dimensions can be increased or decreased with the use of special designs to suit building requirements. Changing the rise will increase or decrease seat height and will affect comfort. Platform coverings or special timber finishes can be selected to suit your requirements.

A Type 11 Raised Timber Bench Seat

B Type 12 Continuous Cushion Bench Seat

C Type 13 Contoured Timber Bench Seat
1, 2 and 3
Carpeted platforms
No seats
Fixed unit manual operation

4, 5 and 6
Timber platforms
No seats
Mobile units manual operations

S10 Platform Type 11 Seats
**A** Type 21
Continuous cushioned bench seat with backrest

**B** Type 22
Moulded high density polyethylene seat & backrest

**C** Type 23A
Upholstered insert seat & backrest

**D** Type 23B
Fully upholstered seat & backrest
The increased platform depth and seats with backrests, provides the audience with more leg-room and greater seating comfort. The seat backrest simply folds down when units are retracted, ensuring savings in set-up time. The audience is seated at the front of the platform with their feet on the platform below.

Seats with backrests, padded and non-padded can be selected to fit the S20 platform. Minimum dimensions are shown using standard construction. Dimensions can be increased or decreased, to suit building requirements. Changing the rise will increase or decrease seat height and will affect comfort.

Platform coverings or special timber finishes can be selected to suit your requirements.
S60 Theatre and Auditorium Seating

A
B
C
D
E
F
G
H
I
A high quality seating system used where audience comfort, good sight lines and a maximum number of rows are of prime consideration.

Individual chairs fixed to the rear of the platform ensure good leg-room and comfortable seating position. When the seating unit is retracted, the seats store flat within the platform.

Chair selection will influence seat centres, number of seats in a row, comfort and platform rise. See seat specifications for details. Acromat can fit alternate manufacturer’s chairs to their platforms. Consult Acromat regarding suitability.

A. Type 61
Moulded high density polyethylene seat & backrest

B. Type 62A
Upholstered insert seat & backrest

C. Type 62B
Fully upholstered seat & backrest

D. Type 63A
Upholstered insert seat & back with armrests

E. Type 63B
Fully upholstered seat & backrest with armrests

F. Type 64
Fully upholstered theatre-style seat & backrest with upholstered armrests

G. Type 61, 62 or 64
Fitted with fold-away writing tablet

H. Type 65
Fully upholstered superior comfort seat & back with armrests

I. Type 66
Fully upholstered luxurious theatre-style

1. Carpeted platforms
Type 66 seat
Fixed unit automatic extension and retraction

2, 3 and 4
Carpeted platforms
Type 62B seat
Mobile unit fully automatic

5. Clear urethane-coated platforms
Type 61 seat
Mobile unit moves forward to court side - fully automatic

6. Carpeted platforms
Type 65 seat
Fixed unit automatic extension and retraction

---

S60 Platform Type 63 Seats

---

REAR HANDRAIL (OPTIONAL)

STORIED SEAT

PLATFORM HEIGHT H

STORIED DEPTH D

270 MIN. STEP

300 MIN. BETWEEN SEATS

420 MIN. SEAT HIGHT

APP. 600 BETWEEN SEATS

480 PLATFORM WIDTH W

HANDRAIL REMOVABLE ON FEED

240 RISER & 400 STANDARD DIVIDER

REMOVABLE FRONT STEP
This system is designed for auditoriums where height is restricted. Two rows of seats are fitted to each platform. Due to the two rows, site lines are not as good as the S60 platforms but better than seating on a flat floor. Seats are selected from the S60 range.
The S100 is designed for auditoriums where there is a height restriction for tiered seating. Removable chairs are used due to the stored height restriction between the platforms. Standard design platform will allow a minimum rise of 150mm. Special design platform will allow a minimum rise of 100mm.

1 and 2
Carpeted platforms
Painted risers - no chairs
Fixed unit automatic extension and retraction
Acer Arena (formerly Sydney SuperDome)
CarriageWorks, Sydney
1 and 2
Stuartholme High School
Queensland

3
Villanova Performing Arts Centre

4 and 5
Marryatville High School
South Australia
SEATING GALLERY

Chisholm College, Western Australia
SEATING GALLERY

1 and 2 Nowra Entertainment Centre, New South Wales
3, 4 and 5
Seymour College
South Australia
SEATING GALLERY

1 and 2 Wollongong University, New South Wales
1 and 2
Perth Arena,
Camatic Quantum Seat

3, 4 and 5
Mazenod College,
Victoria,
Sebel Viva Seat with
upholstered insert.
Automatic seat fold.
Total seats: 1,305
Knox Basketball Stadium, Victoria. Sebel Viva Seat, two units. Total seats: 3,000
SEATING GALLERY

1, 2, 3 and 4 Adelaide University, South Australia
5 and 6: Seating with removable section for wheelchair spacing.
Campbelltown Sports Stadium, South Australia
1.0 GENERAL DESCRIPTION OF STRUCTURE

1.1 The total framing shall be constructed as a braced self-supporting structure. The platforms shall be covered in plywood and operate on a telescopic principle, stacking vertically under one another to cover a minimum floor area when stored. In the extended position, front and rear riser boards shall close in the platform for spectator security and to prevent debris from falling through the platform.

1.2 Each row shall open and close in respect to adjacent frames and be permanently interlocked with each other.

1.3 Each row shall have mechanical row locks, or be fitted with a system so that any or all rows may be locked open for use.

1.4 All sliding parts shall have Teflon rubbing surfaces to eliminate wear and friction between metal surfaces.

1.5 Platform support arms shall have a mechanical adjusting device for setting minimum clearances to compensate for minor manufacturing and building variations.

1.6 Spacing between adjacent platform sections shall not exceed 30mm.

1.7 On fixed units, locating lugs shall be fixed to the rear wall, or floor to secure the units in the working position.

2.0 OPERATIONS

2.1 Transportable Units

2.1.2 Shall be provided with sufficient strength and interlocking lugs for safe transport of the units.

2.1.3 Shall be transported by means of two trolleys, each with two double tyre swivel castors with non-marking polyurethane wheels. The trolleys shall hydraulically raise the seating units for easy transport.

2.1.4 Shall be transported by means of two trolleys, each with turntables and six swivel castors with non-marking polyurethane wheels. The trolleys shall be air operated to raise the seating for easy transport. A small portable air compressor is included to operate the trolleys.

2.1.5 Shall be transported by forklift.

2.2 Fixed units motorised operation

Shall be extended and retracted automatically by permanently located drive units fixed under the seating, operated by key-controlled wall panel or removable push-button control pendant.

3.0 PLATFORM CONSTRUCTION

3.1 Main Frame

Shall consist of two frames per length except for long platforms where additional frames are used. The frames shall be permanently interlocked at the top and bottom. The base shall be constructed of cold-formed steel section with integrated interlocking and a latch system as required. Each base shall contain a minimum of four nylon or polyurethane wheels. Number of wheels fitted will vary to suit floor loading constraints. The support structure consists of 65 x 35 RHS platform support arms bolted to columns of 95 x 35 RHS. The longitudinal platform supports are 75 x 50 RHS or selected to suit span.

3.2 Bracing

Shall consist of 35 x 35 tube braces connecting the longitudinal platform members to the main frames to prevent sway.

Note: The steel frames, together with the longitudinal platform supports form a complete structural frame. The strength of the sheathing timber is not taken into consideration when designing the structure.

3.3 Timber

Platforms, front and rear riser boards and seat boards shall be 19mm / 21mm / 25mm. B Bond waterproof B D grade plywood, V-jointed to form a continuous length. Knots to be patched not filled.

> Ignitability - Index - (0-20) - 14
> Spread of Flame - Index - (0-10) - 8
> Heat Evolved - Index - (0-10) - 9
> Smoke Developed - Index - (0-10) - 2

3.4 Latch Systems

All sections shall be held together by an interlocking latch in the extended position to prevent unwanted movement between rows. This latch must be released before retracting, acting as a safety system to prevent unauthorised use.

3.5 Fastenings

Platforms and riser boards shall be fixed to support structure with self-drilling screws. All bolts shall be zinc plated and provided with shake-proof washers where required.

4.0 WHEEL SYSTEM

4.1 Fixed Wheel System - Nylon

Wheels shall be 100 nominal diameter x 30 wide Nylon for hard floors, wheels shall have a 19 D axle with roller bearings. Bearings will be packed with waterproof grease.

4.2 Fixed Wheel System - Polyurethane

Wheels shall be 100 nominal diameter x 30 wide Polyurethane for softer floors. Wheels shall have a 19 D axle with roller bearings. Bearings will be packed with waterproof grease.

5.0 END & REAR SAFETY RAIL SYSTEM

5.1 Permanently Fixed Handrails

Shall be 33D tube fitted to the platform. The handrails shall retract or extend with the seating unit. Maximum width opening 120mm.

5.2 Removable Handrails

Shall be 33D tube fitted to sockets on the platform. Handrails are removed before retracting seating unit. Maximum width opening 120mm.

6.0 STEPS FOR AISLEWAYS

Aisles may be positioned at any convenient location along the length of the platform. Contact ACROMAT and your local authority for details or regulations.

6.1 Steps shall be fixed to the platform or

6.2 Steps shall move forward when seating unit is retracted to present a uniform front face in the retracted position or

6.3 Steps shall be recessed into the platform to provide an equal going and rise.

6.4 Step Nosing

1. Shall consist of an Aluminium section VA 1498 single square kg/m .378 P160 with a black synthetic cork insert.

2. Shall consist of 20mm x 20mm of Aluminium angle with a ribbed pattern on the top edge. Colour - Natural.

3. Glow tread fitted to Aluminium step nosing.

7.0 FINISHES

7.1.1 All steelwork shall be thoroughly cleaned, primed and finished with black industrial lacquer. Or

7.1.2 All steelwork will be hot dipped galvanised to Australian Standards AS/NZS 4680 1999

7.2.1 All timber which is not carpeted shall be sanded, sealed & covered with 3 coats of clear urethane or a solid colour. Or
7.2.2 All timber shall be sanded, sealed and covered with one coat of AV Syntec concrete base coat, 2 coats of Rebound Synpave, non slip top coat and 2 coats of clear urethane sealer. Or

7.2.3 All timber shall be waterproof Plywood flooring with a phenolic non-slip film “Koskicrown or similar”. All edges will be coated with a water proof oil-based stain.

7.3.1 Bolts, nuts and fittings shall be zinc plated to prevent oxidization. Or

7.3.2 Bolts, nuts and fittings shall be hot dipped galvanised. Or

7.4 All surface corners and edges shall be free from burrs or protrusions.

7.5 CARPETS

7.5.1 Non Woven
> Name – “Images” Autex Carpets or similar
> Fibre – Polypropylene UV stabilised, Anti Static
> Weight 1200gms, Fire Retardant backing
> Fire Rating – Conform to AS1530P111
> Ignitability 16, Spread of Flame 0, Heat Evolved 0, Smoke Developed 4.

7.5.2 Carpet is Godfrey Hurst “Kingsgate Heather” or similar.
> Level loop pile
> 100% wool
> 1360gms per sq. metre
> Fire Rating – Ignitability 15, Spread of Flame 0, Heat Evolved 1, Smoke Developed 4.

7.5.3 Carpet is Godfrey Hurst “Kingsgate Town” or similar.
> Level loop pile
> 90% Wool, 10% Nylon
> 1360gms per sq. metre
> Fire Rating – Ignitability 15, Spread of Flame 0, Heat Evolved 1, Smoke Developed 4.

7.5.4 Carpet underlay shall be Dunlop Ultralay 11, double bond system, density 175 g/m³, thickness 5.0mm + 0.3

ACCESSORIES

8.0 Audience Control Systems

8.1 Aisle Lights
Aisle lights shall be fitted to each step and each riser. Aisle lights shall be 12 volt 5 watt 2000 hr, powered by a 240 volt AC transformer.

8.2 Row Numbers or Letters
Fitted to platform riser, letters or numbers shall be white on a black background 45mm high.

8.3 Seat Numbers
Seat numbers shall be black numbers on a white background and fixed to the front top of the backrest or a position easily seen from the front of the seat.

9.0 CLOSURE PANELS

9.1 Back Panels
Back panels will be fixed permanently to the rear of the seating units. Panel will be made of 12mm plywood painted clear urethane or solid colour.

9.2.1 Side Panels – Removable
Side panels are made from a 6mm Plywood fastened to a lightweight steel frame. The panels have hooks which fit over the bottom rail of the handrail. Panels are connected with each other to form a continuous wall. The panels are painted a solid colour or can be covered in special fabric.

9.2.2 Side panels are made from 100% black woollen fabric, Macquarie “Integrity”. Each panel hooks onto the handrails or under the platform and overlaps to give a continuous covering.

9.3 Side Panels - Retractable
Side panels are made from 6mm plywood fastened to a lightweight steel frame. The panels are attached permanently to the underside of each platform and retract automatically when the seating unit is operated.

10.0 Platform Cover Strips
Provided to cover clearances between seating units, fixed floors, mobile stair units and seating units.

10.1 Running Boards
A hard surface placed under the wheel system to reduce rolling loads on carpet and soft surfaces. Made from 12mm ply, sanded and sealed with three coats of clear urethane. Each panel is approx. 1200 long fitted with interlocking lugs. The panels are required to be laid, interlocked in front of the wheels each time the seating is extended. When the seating is retracted the panels are removed and stored.
S10 SERIES
Type 11 raised timber bench seat
Construction
The seat is made from 19mm plywood with a depth of 250mm and raised approximately 100mm off the platform.

Type 12 continuous cushion bench seat
Construction
The bench consists of 45mm thick high density foam covered with a soft vinyl or woollen fabric.

Type 13 contoured timber bench seat
Construction
The bench is moulded from high density fibreboard with a depth of 290mm and raised approx. 100mm off the platform. The bench is finished with a hard wearing solid colour paint.

S20 SERIES
Type 21 continuous cushioned bench seat with backrest
The type 21 seat allows medium comfort and provides maximum seating spaces on your platforms.

Construction
The bench consists of 45mm thick high density foam on the seat and 35mm thick foam on the backrest. Both seat and backrest are covered with soft vinyl or woollen fabric.

Type 22, 23A, 23B
The seat and backrest are moulded high density polyethylene.
> Seats are single
> Seat backs fold automatically
> Finish of seat frame is powder coat textured black.

Type 22
The Acromat type 22 seat is comfortable, low cost and simple in design. The minimum seat centres for this chair are 460mm. Minimum standard platform rise is 315mm.

Construction
The seat and backrest are moulded high density polyethylene.

Type 23A seat upholstered inserts
The Acromat type 23A seat is fitted with an upholstered seat & back insert to increase comfort & seating time. The minimum seat centres for this chair is 460mm. Minimum standard platform rise is 280mm.

Construction
The seat and backrest are moulded high density polyethylene. The inserts are woollen fabric over a 20mm foam covered timber backing, fastened to the plastic mouldings.

Type 26B seat fully upholstered
The Acromat type 26B seat is a fully upholstered seat and back with thicker padding and increased comfort. The minimum seat centre for this chair is 460mm. Minimum standard platform rise is 280mm.

Construction
The seat and backrest consist of a high density polyethylene moulded shell with 20mm thick foam glued to the front surfaces and covered with a woollen fabric. The seat and back covers are fitted with zips for removal & cleaning.

Type 63A seat upholstered insert with armrests
Similar construction to seat type 62A. Fitted with moulded armrest with or without a fabric-covered insert. The minimum seat centres for this chair is 500mm. Minimum standard platform rise is 280mm.

Type 63B seat fully upholstered with armrests
Similar construction to seat type 62B. Fitted with moulded armrest with or without fabric-covered insert. The minimum seat centres for this chair is 500mm. Minimum standard platform rise is 280mm.

Type 61 seat
The Acromat type 61 seat is a comfortable sports stadium/assembly hall type seat without armrests. The minimum seat centres for this chair is 460mm. Minimum standard platform rise required is 280mm.

Construction
The seat backrest is contoured laminated timber, covered with 35mm polyurethane foam and fully covered with a woollen fabric. The seat and back covers are fitted with zips for removal and cleaning.

Type 61A seat
Similar construction to seat type 62A. Fitted with armrests. The minimum seat centres for this chair is 500mm. Minimum standard platform rise required is 290mm.

Construction
The backrest consists of a high density polyethylene moulded shell with 20mm polyurethane foam glued to the front surface and fully covered with a woollen fabric. The seat is contoured laminated timber, covered with 35mm polyurethane foam and fully covered with a woollen fabric. The seat and back covers are fitted with zips for removal and cleaning.

Operation and Features
> Chairs will be ganged in threes & twos.
> The chair seat tilts to increase access.
> A foot-controlled mechanism allows the seat to fold into the stored position.
> Finish of chair frame is powder coat textured black.

> To reduce weight, a gas strut is installed to counterbalance the seat when folding to the stored position.

Acromat type 65 seat
The Acromat Type 65 seat is of generous proportions, and very comfortable. The Type 65 seat has a tall back and thick cushion seat. The minimum seat centres for this chair is 580. Minimum standard rise is 310mm Minimum standard platform depth is 1000mm.

Construction
The backrest is constructed of high strength steel frame with deep contoured urethane foam, covered with the laminated fabric extending over a foam-covered back. The seat frame is totally encased with a thick urethane foam. The fabric cover has a zip closure if a new cover is required.

Operation and Features
> Chairs will be ganged in threes and twos.
> The backrest folds backwards for storage.
> Finish of chair frame is powder coated textured black.

Acromat type 66 seat
The Acromat Type 66 seat is an upmarket luxurious theatre-style seat with armrests. The Type 66 seat has a tall backrest and thick cushion seat. The minimum seat centres for this chair is 535mm. Minimum standard rise is 352mm. Minimum standard platform width is 1000mm.

Construction
The backrest consists of laminated timber with 35mm polyurethane foam and fully covered with a woollen fabric. The cover is produced with a panel style to define the shape. The seat is moulded foam over a steel frame and covered with a woollen fabric. The seat and back covers are fitted with zips for removal and cleaning.

Type 66 seat
The Acromat Type 66 seat is a comfortable lecture-room or theatre-type seat with armrests. The minimum seat centres for this chair is 500mm. Minimum standard platform rise is 290mm.

Construction
The backrest consists of a high density polyethylene moulded shell with 20mm polyurethane foam glued to the front surface and fully covered with a woollen fabric. The seat is contoured laminated timber, covered with 35mm polyurethane foam and fully covered with a woollen fabric. The seat and back covers are fitted with zips for removal and cleaning.

Operation and Features
> Chairs will be ganged in threes and twos.
> The chair seat tilts to increase access.
> A foot-controlled mechanism allows the seat to fold into the stored position.
> Finish of chair frame is powder coat textured black.

> To reduce weight, a gas strut is installed to counterbalance the seat when folding to the stored position.

Acromat type 66 seat
The Acromat Type 66 seat is an upmarket luxurious theatre-style seat with armrests. The Type 66 seat has a tall backrest and thick cushion seat. The minimum seat centres for this chair is 580. Minimum standard rise is 310mm Minimum standard platform depth is 1000mm.

Construction
The backrest is constructed of high strength steel frame with deep contoured urethane foam, covered with the laminated fabric extending over a foam-covered back. The seat frame is totally encased with a thick urethane foam. The fabric cover has a zip closure if a new cover is required.

Operation and Features
> Chairs will be ganged in threes and twos.
> The backrest folds backwards for storage.
> Finish of chair frame is powder coated textured black.
**Operation and Features**

> Chairs will be ganged in threes and twos.
> The chair tilts automatically to increase access.
> A foot-controlled mechanism allows the seat to fold into the stored position.
> Finish of chair frame is powder coat textured black.
> To reduce weight a gas strut is installed to counterbalance the seat when folding to the stored position.

**Writing Tablets**

Writing tablets can be added to type 61, 62, 63, 64 and 66 seats. Minimum seat centres with writing tablet 570mm. Minimum standard platform rise is 290mm.

**Construction**

The writing tablet is attached to the seat support beam. The writing tablet is constructed from plastic or timber with a non-slip writing surface.

**Operation**

> Writing tablet moves forwards and back to adjust writing position.
> When not in use the writing tablet folds away behind the backrest.
> The writing tablet folds with the seat when platforms are stored.

---

1. Fabric side curtains
2. Rear closure panel
3. Air-lift trolleys
4 and 5. Handrail trolleys
6, 7 and 8. Mobile stairs in various positions and retracted
9. Hydraulic lifting trolley
**How to estimate seating capacity**

Allow approx. 15% reduction in seat quantity for aisleways. Check local regulations for access requirements.

This chart is a guide only based on 460mm per seat without armrest.

Acromat has found that some degree of customisation is usually necessary to suit individual building requirements and seating layouts.

Please contact Acromat Head Office for detailed layouts and confirmation of seat quantities.

### Standard Dimensions for Estimating

Mobile units - H may vary to suit trolley system

Add stored height of selected seat for overall height.

R and W may change depending on chair selection, site lines and seating comfort.

<table>
<thead>
<tr>
<th>No. of Seat Rows</th>
<th>S10 W=780 D=1160 R=280</th>
<th>S20 W=840 D=1350 R=315</th>
<th>S60 W=1460 D=1995 R=280</th>
<th>S80 W=1860 D=1935 R=310</th>
<th>S100 W=840 D=1995 R=100 Rise=200</th>
</tr>
</thead>
<tbody>
<tr>
<td>E H E H E H E H E H E H</td>
<td>3 1920 840 2180 945 2774 840 - - 2774 400</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 2680 1120 3020 1260 3614 1120 3614 620 3614 500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 3440 1400 3860 1575 4454 1400 - - 4454 600</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 4200 1680 4700 1890 5294 1680 5294 930 5294 700</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 4960 1960 5540 2205 6134 1960 - - 6134 800</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 5720 2240 6380 2520 6974 2240 6974 1240 6974 900</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 6480 2520 7220 2835 7814 2520 - - 7814 1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 7240 2800 8060 3150 8654 2800 8654 1550 8654 1100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 8000 3080 8900 3465 9494 3080 - - 9494 1200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 8760 3360 9740 3780 10334 3390 10334 1860 10334 1300</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 11040 4200 12260 4095 12854 4200 - - 12854 1600</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 14840 5600 16460 4410 17054 5600 17054 2170 17054 2100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25 18640 7000 20660 4725 21254 7000 - - 21254 2600</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 22440 8400 24860 5040 25454 8400 25454 2480 25454 3100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### General Platform
Acromat have a range of wall mounted benches and seats suitable for gymnasium walls, assembly halls and theatres.

Benches are available in lengths up to 1200mm long and finished with clear urethane, solid paint colour or carpet. Seats are available as singles, doubles, triples or combinations. Choose seats from Acromat’s S60 range Type 61, 62a or 62b.

SH-5 Seat – Bench – Wall-Fixed – Folding
> Bench 19mm ply
> Bench depth – 250mm
> Finish timber – clear urethane
> Finish steel – textured black

SH-7 Seat – Bench – Upholstered – Wall-Fixed – folding
> Bench 19mm ply
> Bench depth – 250mm
> Upholstered – vinyl
> Upholstered thickness – 40mm
> Finish steel – textured black

SH-20 Seat – Series 60 – Wall-Fixed
> 1, 2 or 3 seat modules
> Seat and back – moulded plastic
> Finish steel – textured black
(options – fully upholstered / upholstered insert)

Acromat can provide fixed tiered seating. Choose from timber platforms with no seats or Acromat’s S20, S60 range of seats.

Dimensions and specifications are similar to Acromat’s retractable seating.
Folding Legs

> Each module shall be 1200 long x 1200 wide high, minimum height 350mm, maximum height 1000mm. Folded height 115mm.

> Each module shall consist of a 35 x 35 x 2 RHS tubular steel frame with a 15mm or 19mm thick EWP pinus plywood top which shall be fastened to the frame with self-drilling screws.

> The legs fold flat for ease of storage and will lock in position when the stage is in use.

> The steel frame shall have interlocking lugs, 2 on the long sides and 1 on each of the short sides. These lugs will hold the modules in place when used as a stage.

> The modular stage shall be designed for load rating of 7.5k pa.

Removable Legs

> Each module shall be 1200 long x 1200 wide, minimum height 150mm, maximum height 1000mm.

> Each module shall consist of a 35 x 35 x 2 RHS tubular steel frame with a 15mm or 19mm thick EWP pinus plywood top which shall be fastened to the frame with self-drilling screws.

> The legs shall be of 42mm diameter tube positioned in each corner to minimize obstruction when the modules are used as tables and can be detachable for delivery. Each leg shall have a non-marking rubber foot fixed to the bottom of the leg. The legs shall be held in place by means of a locking screw.

> The steel frame shall have interlocking lugs, 2 on the long sides and 1 on each of the short sides. These lugs will hold the modules in place when used as a stage.

> The modular stage shall be designed for load rating of 7.5k pa.

> All steel surfaces shall be painted black over a self-etching primer and all removable bolts shall be zinc plated. The plywood top shall have a clear polyurethane, solid colour or carpet finish.

Optional Items

> Carpeted
> Stairs
> Fabric skirting/curtains
> Trolleys
> Adjustable height legs
Planning Service

Acromat will be pleased to provide drawings and accurate costing.

For Acromat to provide this no-obligation service we require the details of your present or proposed facility.

Please forward to Acromat:
> Anticipated patterns of usage
> Desired stage shape
> Drawings of building
  - floor plan of area
  - internal wall elevations
  - section of floor, walls and ceiling
> Your selection of stage system
> Your specific stage requirements, options of accessories (eg. stairs, side curtains, covering, finishes and handrails).

1. Modular stage with stairs and fabric skirting/curtains
2. Assembly of stage
3 & 4. Modular tiered stage with and without stairs plus fabric skirting/curtains
5. Underside of modular stage with removable legs
6. Stage trolley
7. Stairs extension to disability access ramp
8 & 9. Disability access ramp with and without railing installed
ROLL-OUT STAGES

> Stores under an existing stage
> Motorised or manual operation
> Increases existing stage area
> Surface finish designed to match the existing stage.

**Planning Service**

Acromat will be pleased to provide drawings and accurate costing.

For Acromat to provide this no-obligation service we require the details of your present or proposed facility.

Please forward to Acromat:

> Anticipated patterns of usage
> Desired stage shape
> Drawings of building
  - floor plan of area
  - internal wall elevations
  - section of floor, walls and ceiling
> Your selection of stage system
> Your specific stage requirements, options of accessories (eg. stairs, side curtains, covering, finishes and handrails).

1, 2 and 3

Motorised roll out stage - stored within Height 500mm
Timber finish, clear urethane
> The platforms and support structure concertina to allow the stage area to store in 25% of the original space.

> Retractable stages are manufactured to suit customer’s sizes and heights.

> The platforms are made from 19mm ply and finished with clear urethane.

> Stages can be manually operated or fitted with motors to automatically open and close the platforms.

> Heights of stages can be made from 350mm to 1000mm.

**Planning Service**

Acromat will be pleased to provide drawings and accurate costing.

For Acromat to provide this no-obligation service we require the details of your present or proposed facility.

Please forward to Acromat:

> Anticipated patterns of usage
> Desired stage shape
> Drawings of building
  - floor plan of area
  - internal wall elevations
  - section of floor, walls and ceiling
> Your selection of stage system
> Your specific stage requirements, options of accessories (eg. stairs, side curtains, covering, finishes and handrails).

5, 6 and 7
Motorised retractable folding stage - fixed within wall
Height 350mm
Timber finish, clear urethane

8
Disability access ramp with and without railing installed
Mobile Under-stage Storage Trolley

> Stores under fixed stage
> Custom designed to suit your building
> Stores - sports equipment, chairs, theatre props
> Motorised or manual operation
> Gates can be added for easy access
> Steel construction, 19mm Plywood floor and 100mm diameter non-marking wheels.

**Planning Service**
Acromat will be pleased to provide drawings and accurate costing.

For Acromat to provide this no-obligation service we require the details of your present or proposed facility.

Please forward to Acromat:
> Anticipated patterns of usage
> Desired stage shape
> Drawings of building
  - floor plan of area
  - internal wall elevations
  - section of floor, walls and ceiling
> Your selection of stage system
> Your specific stage requirements, options of accessories (eg. stairs, side curtains, covering, finishes and handrails).

1, 2 and 3
Motorised storage trolley – Height 600mm, Width 1,500mm, Depth 6,000mm
Steel welded frame with 19mm ply base
Head Office
Acromat
25 Manchester Street
Mill End South
South Australia 5031
Phone: +61 8 8352 2288
Fax: +61 8 8352 7053
Free Call 1800 808 451
Email: acromat@acromat.com.au
Internet: www.acromat.com.au

Branch Offices
Acromat Victoria
Phone: (03) 9764 1300
Fax: (03) 9764 2805

Acromat New South Wales
Phone: (02) 9580 4466
Fax: (02) 9580 2257

Official Provider of Gymnastics Equipment to the Sydney 2000 Olympic Games

Official Supplier 1994 World Gymnastic Championships

Manufacturer of FIG Approved Apparatus

Official Provider of Gymnastics Equipment to the Melbourne 2006 Commonwealth Games