



Space Max

Space Series



01 | Technical Description

Back

The inner support is made of ST-37 round tubular steel, shaped & rolled in cold which serves as a one - piece rectangular hoop for four serpentine springs. This frame is totally integrated with M4 fire class cold moulded polyurethane foam of 45Kg/m³ density shaped to the contour of the springs on the bottom. The resulting block of inner metal structure & foam acts as a foundation and provides a flat surface on the surface for the upholstery cover that is securely fastened to it by means of Velcro® stripes to facilitate ease of re-upholstering. The back is upholstered and finished with an exposed metal plate. Outer plywood panel and fully upholstered back also available.

Seat

The inner support is made of ST-37 round tubular steel, shaped & rolled in cold which serves as a one - piece square hoop for four 40x1.5 metal plates. The self-lifting mechanism is inserted into the aluminium standards. two lubricated plastic caps that provide quiet & gentle seat uplift (full-fold). The frame is totally integrated with M4 fire class cold moulded polyurethane foam of 55Kg/m³ density shaped to the curved contour of the springs on the bottom. The resulting block of inner metal structure & foam acts as a foundation and provides a flat surface on the surface for the upholstery cover that is securely fastened to it by means of Velcro® stripes to facilitate ease of re-upholstering. The seat is fully upholstered with a detachable cover. Outer plywood panel also available.

Central Pedestal and Beam Mounting

Central pedestal manufactured in round tube of 80mm diameter specially stamped in its upper part to hold the horizontal metal bar of 60x30mm and then fixed to the floor with a 10mm thickness round plate and 220mm with four fixing points.

The horizontal bar is inserted into the round tube and then fixed with a metal clamp secured with two recessed bolts. The use of this clamp in conjunction with the central pedestal allows the fixing position to be changed without trouble and deal with existing disturbing elements - air outlets, magnetic loops, electronic installations, floor areas of poor quality, etc.

Similarly, the round fixing plates are concealed with decorative covers that do not require any fixing to show a smooth and clean finish. The central pedestal is specially designed to be compatible with any floor inclination in order to maintain always the height and angle of both seat and back. All metal parts are electronically epoxy coated with 80-90 micron paint and then oven coated for a smooth distribution of the paint.

Aisle & Middle Standards

Cast aluminum pieces with integrated folding mechanism inside - it synchronises the seat & back movement with the arms. These standards are secured to the 60x30 horizontal bar using aluminum clamps for better stability. Arms are manufactured in solid beech timber.

Numbering

Seat: round plastic plate. Embroidered numbers also available

Row: recessed plates into the aluminium aisle standards.

Upholstery

The seat and back covers are fully upholstered in a single piece with zip- both are securely fastened to the flat surface of the cushions by means of Velcro ® stripes to facilitate ease of re-upholstering. All stitching with Serafil 40 thread made from 100 % polyester continuous filaments of high tenacity.

Fabric

M1 fire class **TREVIRA CS MINI** fabric from **FIDIVI TESSITURA VERGNANO (ITALY)**; produced from 100% Polyester TREVIRA CS and manufactured using environmentally friendly non-metallic dyestuffs. This fabric achieves full euro flammability award. These durable fabrics have non-pilling properties.

Composition: 100% Polyester TREVIRA CS. Non metallic dyestuffs.
Recycled / EU Flower certified

Weight: 340g/m2

Abrasion Resistance Pilling: 100,000 Martindale cycles (full details available) (ISO 12947-2:2000)

Flammability: UNI 9174 - 8456 Class C1; UNI 9175 Class 1 IM; DIN 4102 Class B1; NF 92501-7 Class M1; NF D 60013 Class AM18; EN 1021-1 & 2; BS Crib 5; BS 7176 Class Medium Hazard; EN 13773 Class 1 O; ENORM 3800-1 Class B1,Q1,TR1 California TB117; USA NFPA 701; USA NFPA 260; IMO A 652 (16) Part 8 Upholstery

Light Fastness: 6 (ISO 105-B02:1999 - Xenotest)

Fastness to Rubbing: 4/5 (ISO 105 - X12:2002 Crockmeter)

Pilling 2000 rubs: 5 (ISO 12945-2)

Maintenance: Washable to 60°C. Vacuum regularly. Wipe clean with a damp cloth or shampoo using appropriate upholstery shampoo composition.



02 Finishes & Tests

Thread

Serafil Sewing thread from Amman and Soehne Gmbh (Germany)

Linear density (dtex) (ISO DIN EN ISO 2060): approx. 504 * 3 dtex

Linear density (Nm) (ISO DIN EN ISO 2060): approx. Nm 20 / 3

Breaking force (ISO DIN EN ISO 2062): approx. 8960 cN

Elongation at break (ISO DIN EN ISO 2062): approx. 19 %

Colour fastness to artificial daylight (ISO 105 B 02): 5

Colour fastness to perspiration (ISO 105 E 04): 4

Colour fastness to washing 95°C (ISO 105 C 06 - E2): 3-4

Colour fastness to rubbing 1) dry (ISO 105 X 12): 4

Colour fastness to rubbing 2) wet (ISO 105 X 12): 4

Stability

Compliance with Standards UNE EN 12727:01 - Furniture. Ranked Seating. Test Methods and Requirements for Strength and Durability.

Seat and Back Static Load Test (Fv=2000N, Fh760N, n=10 times):

Correct

Horizontal Forward Static Load to Back (Fh=760N, n=10 times):

Correct

Vertical Static Test on Back (Fv=900N, n=10 times): Correct

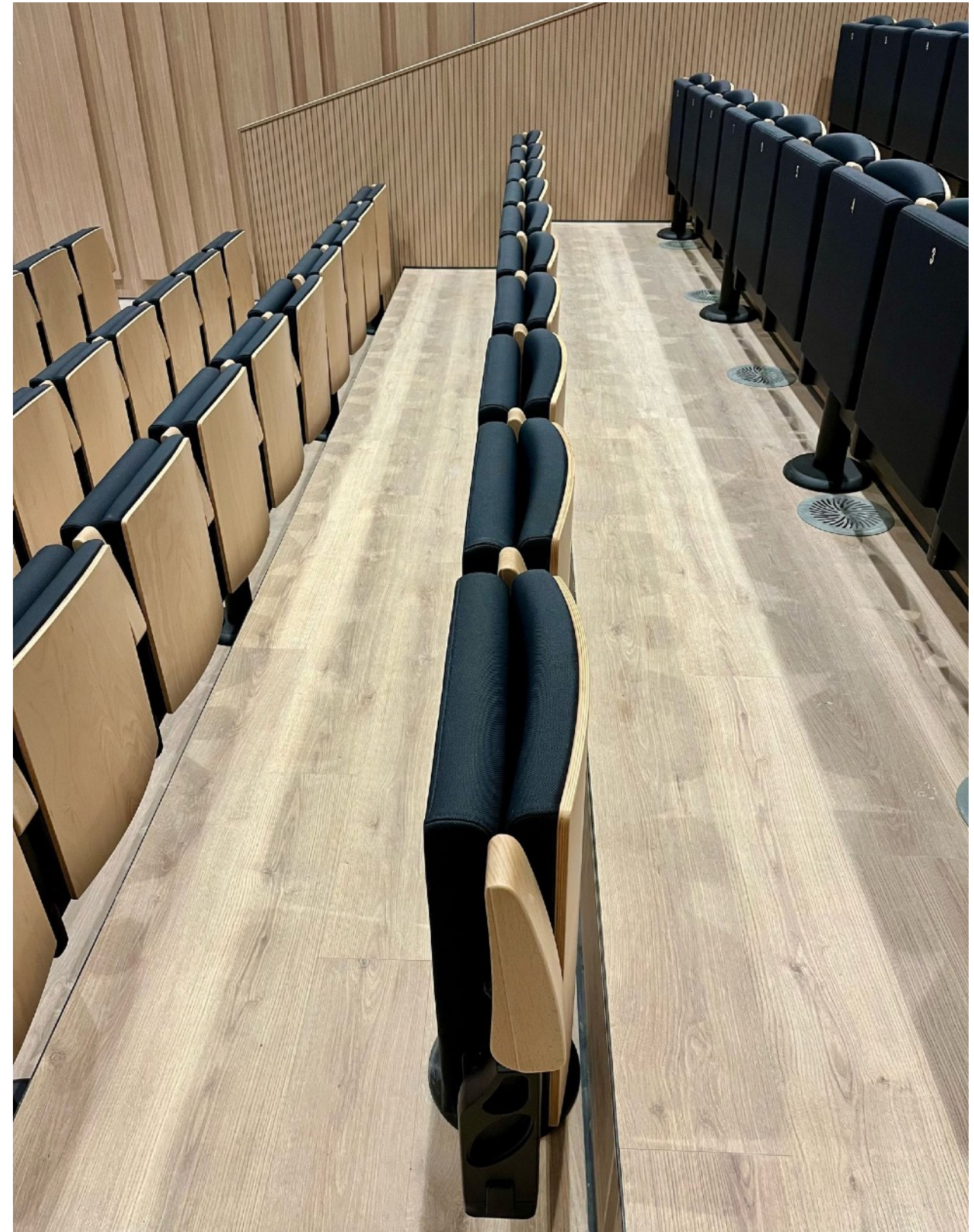
Arm Sideways Static Load Test (Fh=1000N, n=10 times): Correct

Arm Downwards Static Load Test (Fh=1000N, n=10times): Correct

Back Impact Test (M=5kg, a=68°, n=10 times): Correct

Arm Impact Test (M=5kg, a=68°, n=10 times): Correct

Tipping Seat Operation Test (n=100,000 cycles): Correct



03 Acoustics

Conditions of the test

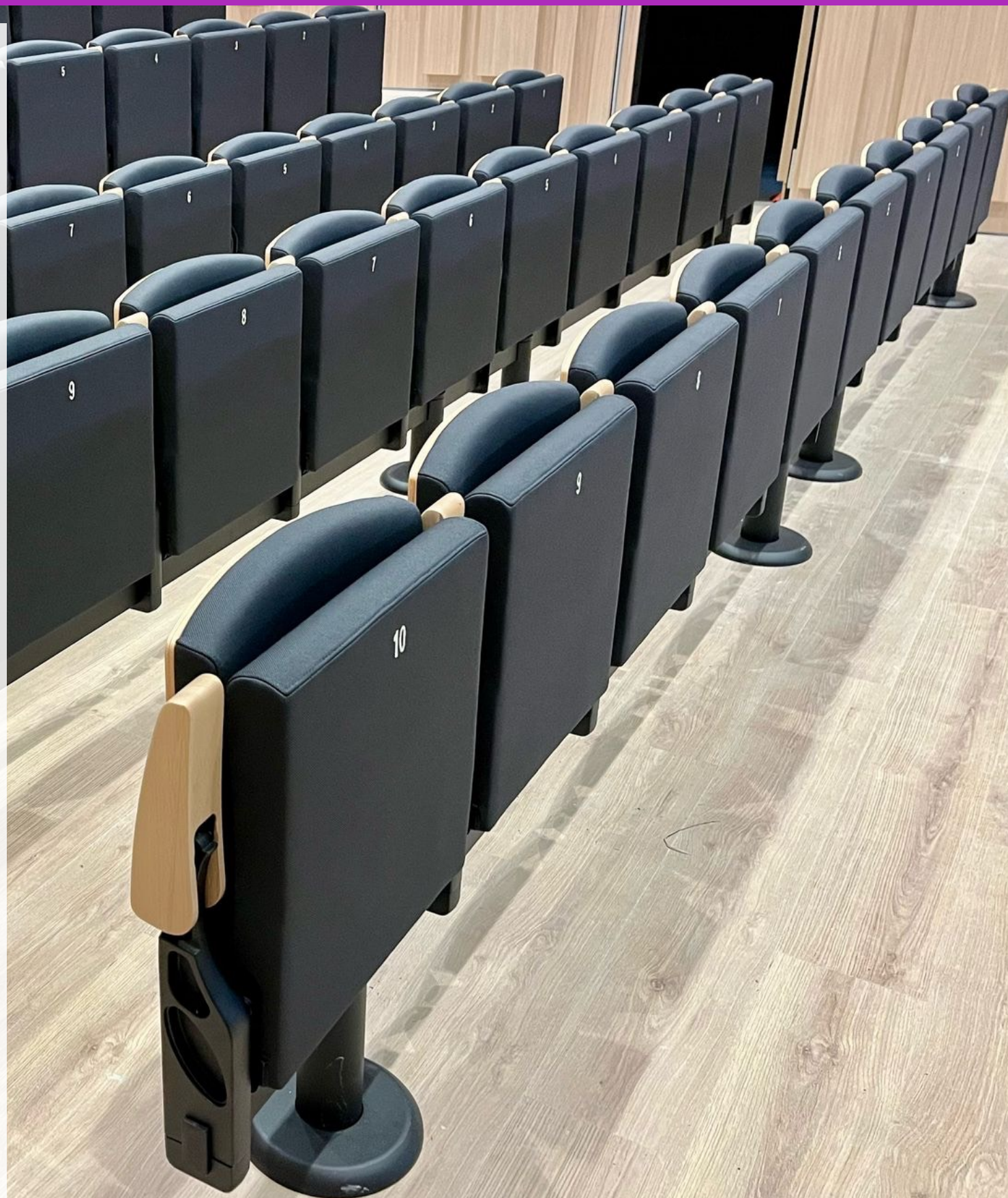
Back: Cold moulded foam + Panox fire barrier
Seat: Cold moulded foam + Panox fire barrier
Upholstered back with outer 13mm plywood panel
Fully Upholstered seat
Fabric 100% Trevira CS 220 gr/m²
12 chairs (4 rows of 3 chairs)
900mm Row Distance

Empty Seats

f (Hz)	α_s	α_p
100	0,26	0,20
125	0,15	
160	0,17	
200	0,31	0,35
250	0,35	
315	0,45	
400	0,44	0,50
500	0,49	
630	0,52	
800	0,57	0,55
1000	0,54	
1250	0,55	
1600	0,55	0,55
2000	0,57	
2500	0,52	
3150	0,60	0,65
4000	0,64	
5000	0,64	

**Weighted sound absorption
coefficient, according to EN ISO
11654:1997**

$\alpha_w = 0,55$



04 Dimensions

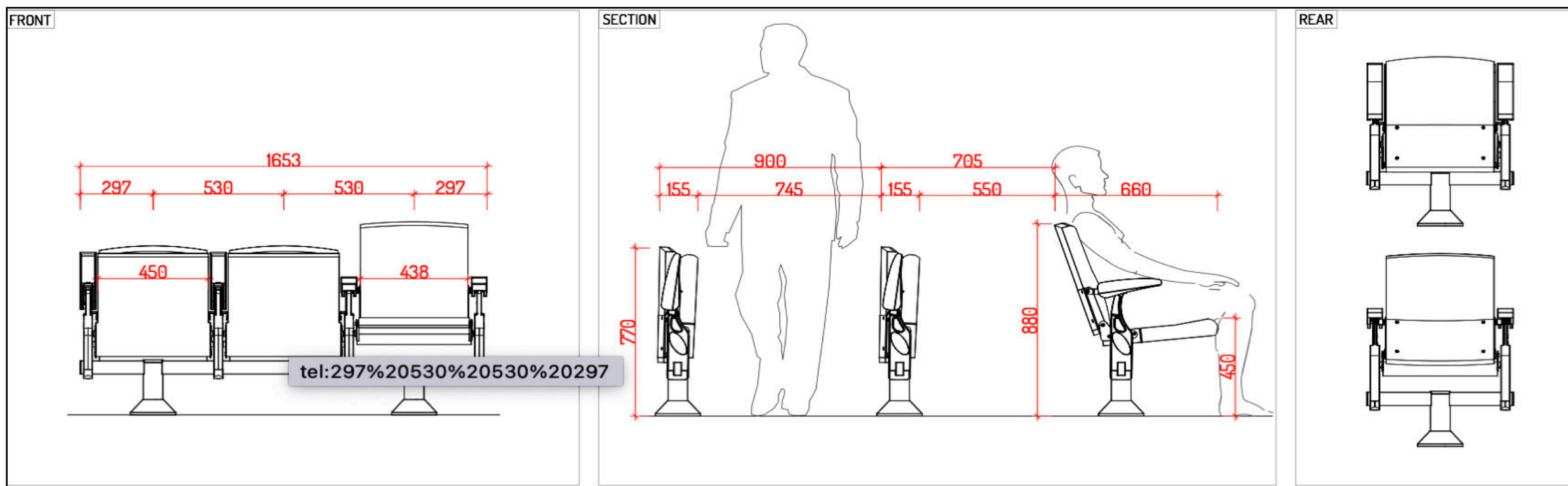
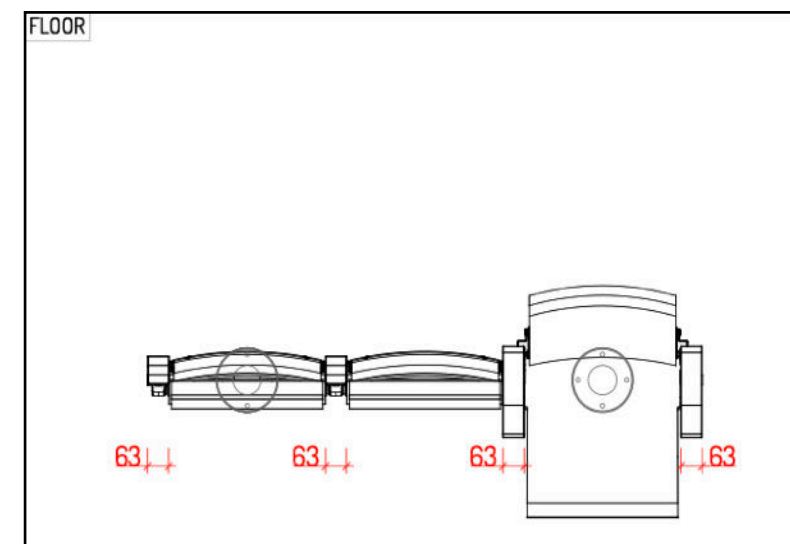
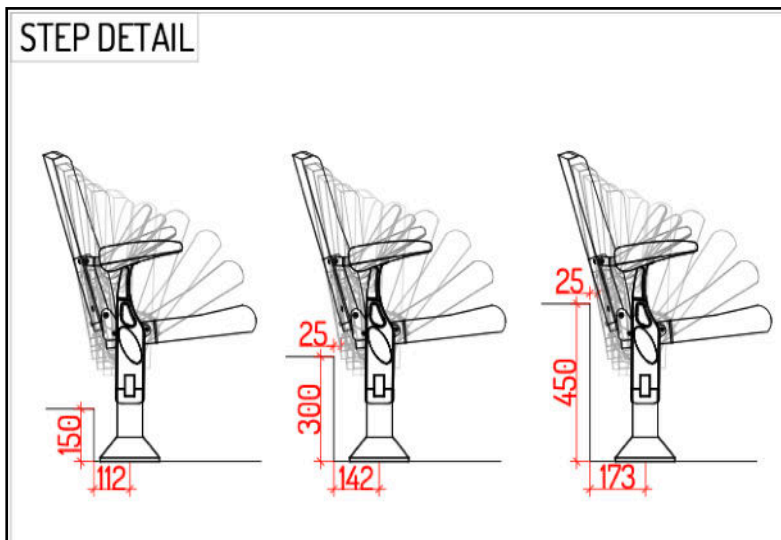
General Dimensions

Overall Height: 770mm (closed) 880mm (open)

Seat Centres: 480 to 550mm

Seat Height: 450mm

Envelope: 155mm (closed) 660mm (open)



05 Options



Fixed Back & Fixed Arms

Tip Up seat. Outer back with exposed metal plate or plywood



Anti Vandal Plate

Full Metal Outer Panel combined with longer timber arms



Cup holder

Available for timber arms only. Manually operated

06 References

St Theresa Catholic College, Noosaville, [Australia](#)

Zapresic Ivana Church, [Croatia](#)

Catholic University, Zagreb, [Croatia](#)

Gong Theatre, Prague, [Czech Republic](#)

Kuressaare Town Theatre, Tallin, [Estonia](#)

Valkeakoski Leisure Centre, [Finland](#)

Latecoere Toulouse, [France](#)

Stade de Rennes, [France](#)

Palais de Congress de Le Touquet, [France](#)

Palais de Sport de Beaublanc, Limoges, [France](#)

Viene Space St Germain, [France](#)

Decines Theatre, [France](#)

HungExpo Main Auditorium, Budapest, [Hungary](#)

Alliance Francaise, Dublin, [Ireland](#)

Stadio San Paolo, Napoli, [Italy](#)

Aula Digitale, Università di Pavia, [Italy](#)

Teatro dei Filarmonici, Ascoli Piceno, [Italy](#)

Hall University, Riyadh, [KSA](#)

King Faisal University, Hofuf, [KSA](#)

St Joseph College, Beirut, [Lebanon](#)

Skaun Ungdomskole, [Norway](#)

Würth HQ, Oslo, [Norway](#)

Salesian House, Krakow, [Poland](#)

Gydnia Film School, [Poland](#)

Maska Theatre, Rzeszów, [Poland](#)

Superbock Arena, Porto, [Portugal](#)

Norilsk Fok Sports Hall, [Russia](#)

Tabakov Theatre, Moscow, [Russia](#)

Maliy Dramaticheskyy Theatre, St Petersburg, [Russia](#)

Teatro Albéniz, Madrid, [Spain](#)

Teatro Fígaro, Madrid, [Spain](#)

Gran Teatro Príncipe Pío, Madrid, [Spain](#)

Cycle Orientation Riaz, [Switzerland](#)

Carpa Cabaret Circo Delicias, Madrid, [Spain](#)

Weijer Theatre Boxmeer, [The Netherlands](#)

SBV Excelsior Rotterdam, [The Netherlands](#)

Fatima Bin Mubarak Ladies Sport Hall, Dubai, [UAE](#)

Emirates Diplomatic Academy, Dubai, [UAE](#)

Plymouth Royal Theatre - Rehearsal Room, [UK](#)

Boston College Schriller, [US](#)



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