



COURTZONE

SPECIFICATION SHEET INDOOR

CourtZone AG
8117 Faellanden, Switzerland

Product Specifications

for

Courtzone modular sport flooring tiles for indoor use : Inzone Pro and Inzone Gym

PART I – GENERAL

1.01 DESCRIPTION

A. Scope of work

Furnishing of materials for the flooring system as described below. The flooring is a modular interlocking suspended plastic system for outdoor and indoor use, application of game lines and maintenance instructions for the flooring system.

B. Related work specified elsewhere

1. Installation of concrete, asphalt or other base material.
2. Preparation of a base to provide a semi smooth surface finish with a tolerance of +/- 0.7 in any radius.
3. Membrane waterproofing as determined by the project engineer.

1.02 QUALITY ASSURANCE

A. Material Supplier

B. Installer :

The complete installation of the flooring system, as described in these specifications, shall be carried out by an experienced installer (Flooring Contractor), and the work shall be performed in accordance with current installation instructions of Courtzone. The installer (Flooring contractor) shall be liable for all matters related to installation for a period of one year after the floor has been installed and completed.

1.03 DELIVERY, STORAGE AND HANDLING

- A. Materials must be delivered in Courtzone's original, unopened and undamaged packaging with identification labels intact.
- B. Store material protected from exposure to harmful weather conditions, on a clean, dry, flat surface protected from possible damage.
- C. Storage conditions shall be 15°C – 31°C

PART II – WARRANTIES

2.01 MANUFACTURER’S LIMITED WARRANTY

- A. Courtzone warrants that the materials it has supplied will be free from manufacturing defects for a period of ten (10) years. The foregoing warranty is in lieu of and excludes all other warranties not expressly set forth herein, whether expressed or implied in operation of law or otherwise, including, but not limited to, any implied warranties of merchantability or fitness. This warranty is expressly limited to the flooring materials (goods) supplied by Courtzone. This warranty does not cover floor damage caused (wholly or in part) by fire, winds, floods, moisture, other unfavorable atmospheric conditions or chemical action, nor does it apply to damage caused by ordinary wear, misuse, abuse, negligent or intentional misconduct, aging, faulty building construction, concrete slab separation, faulty or unsuitable subsurface or site preparation, settlement of the building walls or faulty or unprofessional of Courtzone flooring systems.
- B. Courtzone shall not be liable for incidental or consequential losses, damages or expenses directly or indirectly arising from the sale, handling or use of the materials (goods) or from any other cause relating thereto, and their liability hereafter in any case is expressly limited to the replacement of materials (goods) not complying with this agreement or, at their election, to the repayment of , or crediting buyer with, an amount equal to the purchase price of such materials (goods), whether such claims are for breach of warranty or negligence.
Any claim shall be deemed waived by buyer unless submitted Courtzone in writing within 30 days from the date buyer discovered, or should have discovered, any claimed breach.
- C. Courtzone warrants that the colors will not fade out for a period of seven (7) years (international standard UV protection against color fading). This warranty can be void subject to the use of herbicide, pesticides or if installed in an area of extreme climatic conditions, such as areas with a extremely high UV radiation or areas with acidic rain.

PART III – PRODUCTS

3.01 MATERIALS: Polypropylene High Impact Copolymer

- A. UV & antioxidant colorant package against colour fading. Antistatic, moisture, fungal and anti-microbiological. Protective additives are included in the master batch, made to proprietary formula.
- B. CourtZone Inzone modular sport flooring tiles
1. Description: An injection moulded, an impact copolymer resin for plastic tiles.
 2. Dimensions : 25 x 25 cm, height 1.3 cm
Inzone Pro : 25 x 25 x 1.3 cm, weight 235 g
Inzone Gym : 25 x 25 x 1.3 cm, weight 285 g
 3. Material: Super high impact copolymer resin. UV protection, fungal, moisture antistatic, retard flammable and anti-bacterial additives are moulded into each tile to ensure protection against color fading and plastic deterioration.

4. Surface Texture: Specially engineered and designed surface. Light grip surface for Inzone Pro and smooth surface for Inzone Gym. Ideal for Futsal, Hockey, Volleyball, Multigame in Gym's
5. Tile Interlocking Mechanism: The special strong inter locking system, with 5 locking points on each side, remain the tiles flat and they will not cup up at the corners.
6. Support structure: For the best results its strongly recommended to layout a 2-3 mm rubber or foam – underlay under the tiles.

PART IV – PHYSICAL PROPERTIES

4.01 MATERIAL TEST RESULTS

- A. Melt Flow Index (ASTM D1238): 4g/10min
- B. Temperature : 200- 250°C
- C. Load: 2.16kg
- D. Mold Shrinkage (MD) (ASTM D955): 0.016mm/mm
- E. Density (73°F) (ExxonMobile Method): 0.9g/cm²
- F. Rockwell hardness (ASTM D 785):R88
- G. Heat deflection @ 66 psi (ASTM E 648): 84°C
- H. Flaming at 1000mm (ASTM E 648):(UL94 HB) 4.30min
- I. Vicar softening point (ASTM D 1525):150°C
- J. Low temperature brittleness (ASTM D 2137): No break
- K. Coefficient of linear thermal expansion (ASTM D 696, E 831): 1.4~1.8
- L. Flex modulus (ASTM D 790A) : 23°C 1138 MPa
- M. Tensile yield strength (ASTM D 638) : 23.9 MPa
- N. Elongation at yield (ASTM D 638): 7%
- O. ZOD Impact Strength (ASTM D 256): 23oC 1/8”bar NB (non-break), -20oC 1/8”bar 7.4(J/m)

4.02 PRODUCTS TEST RESULTS

- A. Flame spread index (ASTM E 162): 4min 30s
- B. Smoke development (ASTM E 162): 1min 46s
- C. Friction test (ASTM C 1028): Dry <71,wet < 44
- D. Compression vs crush (ASTM D 3998): No Break
- E. Noise Réduction Coefficient (ASTM C-423): 25%
- F. R-Value : <1
- G. Flatness : +/- 0.05mm
- H. Load bearing capacity: <1000kg

PART V – EXECUTION

5.01 INSTALLATION

- A. All tiles will be installed and/or supervised according to the manufacture's specifications by an authorized; factory trained dealer or approved representative.
- B. The tiles will be installed and/or supervised according to the manufacturer's specifications by an authorized, factory trained dealer or approved representative.
- C. Floor surface shall be clean and free

5.02 MAINTENANCE

A. It is recommended to clean ones or twice a week the surface with a common industrial vacuum/scrubbing machine. Use a PH+ close to 7, neutral detergent to clean dust dirt and films on the surface.

Dilution rate: 1:40 part warm water. Black scuffmarks, caused by skate shoes and black shoe soles are removed with lacquer thinner. Wipe off with cloth or buffer

PART VI – RECYCLING ATTRIBUTES

Courtzone uses a copolymer polypropylene plastic that – at the end of its service life – can be sold to plastic recycles. The titles can be granulated and reused back into the commodity plastics stream.

