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THERE ARE OBVIOUS DIFFERENCES IN COURT SURFACES AND COURT PANEL SYSTEMS. SIMPLY PUT, FIBERESIN COURT PANELS ARE THE BEST AVAILABLE AND HAVE THE TRACK RECORD TO PROVE IT.

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WORLD

SQUASH

FIBERESIN HI-DENSITY WALL PANEL SYSTEMS FOR RACQUETBALL, HANDBALL AND SQUASH COURTS

FIBERESIN COURTS

Superior Play, Superior Performance...

Fiberesin high-density wall panels deliver fast, true rebounds and lively ball action. Their proprietary uniform, textured nonskid surface ensures consistent, predictable rebounds. The Fiberesin court wall system has been officially accredited by the World Squash Federation.

Unparalleled Durability...

There is a 10 year warranty on every Fiberesin court panel. There are numerous Fiberesin court

wall systems that have been in service for over 20 years that still look and play like new.

Lower Cost...

Using the Fiberesin panel system means short construction time, early occupancy and immediate play. This framing/panel system eliminates the cost of special foundations and walls. Attached as a fixture, they can be relocated, offering tax benefits related to depreciation of assets.

FIBERESIN MR ECO COURTS



Moisture Resistant MR

Fiberesin has developed the MR-Eco product line for use in high humidity environments. The product is designed to resist moisture absorption and the related swelling and warp that can result. From beach-front resorts to indoor clubs with swimming pools in close proximity to the court area, this panel system is the ideal solution.



Green Features ECO

The Fiberesin MR-Eco courts system is designed to be the most environmentally friendly court product available. Made with a formaldehyde free adhesive system and FSC certified wood, the panels have potential for LEED credit support in your project. The products also meet CARB ATCM Phase 2 emission limits, are CARB NAF Exempt and are CHPS compliant.

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PRODUCT DESCRIPTION.

The Fiberesin panel is the first prefinished playing surface ever designed and engineered specifically for racquetball, handball and squash courts. While the system has evolved and grown over time, the unparalleled performance and durability remain intact.

The Fiberesin panels are solid, rock-hard sheets of material that meet the rigid specifications and requirements demanded for fast action sports courts. Fiberesin panels are constructed of high density particleboard and fiberboard cores combined with multiple layers of

TOTAL PRODUCT RESPONSIBILITY

Fiberesin panels are produced in the USA by Fiberesin Industries Inc., the world's most experienced manufacturer of custom engineered prefinished panel

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resin-impregnated sheets of varying thickness and density. (Fiberesin impregnates the sheets with resins in house.) When hot pressed, the resins flow together to form a solid surface which is fused to the board, creating a single solid mass from face to face and edge to edge. This construction has no glue line and thus will never delaminate.

This combination of materials and the thermal fusing process produces a very dense and rigid composite panel, designed to meet the exacting standards of a playing surface.

systems for racquetball, handball and squash courts and indoor soccer arenas. Fiberesin presses, shapes and fabricates its panel systems and fully supports its dealers and customers with a 10 year warranty.

FIBERESIN PANEL ATTACHMENT SYSTEM GUIDELINES

Free Standing Structural System

This is the most common attachment system. It utilizes structural steel "C" stud (16 and 18 gauge) spaced not more than 12" on center for front walls and 16" on center for side and back walls. The 6" stud is used for free standing walls and the 3 5/8" stud is utilized for intermittently supported walls. Ceiling framing utilizes either 16 gauge 6" steel joists spaced 16" on center or suspended metal grillage for direct screw or spline attachment or concealed suspension of the panels. Comparable quality wood structural members can be substituted. Substructure may employ particleboard, gypsum, plywood or sound deadening panel sublayers to meet sound or fire requirements.

Furred Structural System

Either wood or steel members are attached to existing walls using the same spacing as the free standing system. Care must be taken to prevent moisture migration from the masonry into the panel backs. Vapor barriers and insulation are usually needed on exterior walls, walls adjoining wet areas and certain poured or C.M.U. walls. Furring members must be shimmed plumb.

The vapor barrier location and permeability to be determined by the architect as they are dependent upon climactic conditions. Vapor barriers are routinely placed on the warm side of the wall cavity, thus they may belong on the exterior side of the wall cavity or structure in warm climates. A minimum permeability of 0.5 gr./S.F/hr./in Hg. using ASTM E96 testing procedure is recommended for all vapor barriers.

Direct to Masonry or Portland Concrete

This attachment option is only recommended when walls are confirmed to be dry, adequately straight and plumb to support the panel systems. An excellent wall will result when proper precautions are taken.

Attachment of Panels to Framing Members

Panels are attached with a concealed H spline screw applied to the vertical framing members. A specially formulated PL400 construction adhesive and shims are used between panels and framing members to provide a positive yet flexible bond to accommodate building movement.

FIBERESIN DOOR SYSTEM

Plavs Like a Wall

Door: 1 ¹/₂" thick Fiberesin panel, edges sanded and lacquered to match face, leading edge beveled, 1/8" clearance on all sides.

Door frame and stop: Solid 1 1/2" and 13/16" Fiberesin, acrylic lacquered to match door.

Hinge: full length piano, mounted flush.

Window: Lexan clear plastic, mounted flush. Pull Ring: 2 ¹/₂" x 3 5/16" heavy duty, mounted flush. Door Closer: heavy usage, paralleled type door saver available in either RH or LH swing.

Model: CF Door Door Size: 36 7/8" x 79 1/4" Jamb Size: 40 ¹/₄" x 82 ¹/₂"

The Safe Keeper

Eliminate locker room theft and keep valuables safe during play.

Manufactured using Fiberesin panels. Installs flush, will not hinder play.

Model: SK01 Door: Lexan clear plastic. Latch: Magnetic Size: 14 ¹/₂"W x 6"D x8"H

FIBERESIN'S LEAD POSITION IN COURT PANEL SYSTEMS IS A RESULT OF QUALITY PRODUCTS, PRIDE IN WORKMANSHIP AND A STRONG BELIEF THAT CUSTOMER NEEDS ALWAYS COME FIRST.

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FIBERESIN COURT PANELS (Recommended Installation Specifications)

Racquetball, Handball or Squash Courts

Part I – GENERAL

1.01 SCOPE

Provide materials and labor to complete courts as specified utilizing Fiberesin panels or approved materials of equal performance specifications. Work to conform to industry standards including but not limited to:

- A. Steel or wood support framing
- B. Wall and ceiling court panels
- C. View (glass) panels specified elsewhere
- D. Light fixtures specified elsewhere
- E. Wood flooring specified elsewhere

1.02 QUALITY ASSURANCE

Installer shall be responsible for all framing, panel application, light fixture attachment, related view panels and wood floors as specified. Installers shall be trained and approved by specified manufacturers with at least 3 yrs. experience and suitable references.

- 1.03 SUBMITTALS
 - A. Sample: provide technical data and samples for major product groups.

B. Shop drawings: provide manufacturer's drawings from each major product group plus specific situation drawings. 1.04 PRODUCT DELIVERY AND STORAGE

A. No panel materials shall be delivered prior to work completion by "wet trades" and structures made weather tight. B. The permanent HVAC System shall be operational and used to maintain 50-80 degrees F and 40-60% r.h. through storage, installation and thereafter.

C. Materials to arrive dry in original packaging. Panels shall be unwrapped and stacked flat on four or more stickers a minimum of five days prior to installation to allow panel acclimation.

1.05 WARRANTY

A. Panel manufacturer (not distributor) shall warrant panel materials for ten (10) years. Warranty shall assure manufacturer's specifications are met and afford freedom from defects in material or workmanship and delamination. Warranty excludes excessive moisture related problems. Manufacturer's printed warranty shall convey details and conditions.

Part II – MATERIALS

2.01 WALL MATERIALS

Note: All steel members to meet AISI spec, ASTM A466, Grade A.

- A. Wall Framing
 - 1. 18 ga.x6" galv. C-studs space 12" o.c. for head walls & 16" o.c. for other walls. 3-1/2" or 3-5/8": studs may be substituted when attached to structure at 1/4 points for added rigidity. Vapor barrier exterior, wet area and certain masonry or poured walls.
 - 2. Wall furring channels 18 ga. Galv. furring or z-channels spaced as above. Attachment via suitable mechanical fasteners supplemented with construction adhesives. Note: walls must be vapor barrier insulated.
 - 3. Construction grade lumber of equal strength may be substituted for steel.
- B. Ceiling Framing Options
 - 1. Joists 16 ga.x6" galv. C-joists spaced 16" o.c.
 - 2. Suspended 1-1/2" c.r. channels and drywall furring channel attached 16" o.c. or direct screw grid.
 - 3. Concealed grid-National Rolling Mills ML 6000 series or equal wire suspended.
 - 4. Construction grade lumber may be substituted.
- C. Panels Fiberesin panels average composite densities or equal having comparable performance specs.
 - 1. Panel specifications required (average values)
 - a. Melamine laminate faces and back thermally fused to high strength particle board, meeting all test results of Fed. Spec's L-T-0041C (GSA-FSS type III)
 - b. Stain-pass NEMA LD 3-2005

	Fiberesin Courts	Fiberesin MR Eco Courts
Screw holding	ASTM D1037 face: 405 lbs Internal bond: 135 lb/in2	ASTM D1037 face: 250 lbs Internal bond: 80 lb/in2
Modulus of Rupture	3,060 lb/in2	2,200 lb/in2
Modulus of Elasticity	376,000 lb/in2	390,000 lb/in2
Modulus of Hardness	(Ibs Janka) 500	(lbs Janka) 500

- e. Impact (NEMA LD 3-2005): 52"
- f. Abrasion (NEMA LD 3-2005)-2500 cycles.
- g. Flame spread for -55#/cf M-3 panel (ASTM E84 procedure): flame spread 90, fuel contributed 105, smoke density 200.
- 2. Description walls and ceiling panels are specified composite density particleboard core thermally fused between melamine laminate face and back with white texture finish on the face.
 - a. Front walls 1-1/8"x48"x96/48", 55#/cf M-3(+/-5%); High solids modified acrylic edge finish.

- b. Side and rear walls 13/16"x48"x96/48", 55#/cf M-3(+/-5%): High solids modified acrylic edge finish.
- c. Ceilings panels 5/8" or 3/4"x48"x96", or 24"x48", 45#/cf (+/-5%).
- d. Doors 1-1/2" solid Fiberesin panel frame and door with 13/16" stop; edges lacquered. Full piano hinges, 2 ½" x 3 5/16" pull ring, 1/2"x10"x10" "Lexan" window and black laminate push plate.
- Model CF Door Size 36-7/8"x79-1/4" Jamb Size-40-1/4"x82-1/2"
- e. Safe Keeper wall panel stock, "Lexan" door, piano hinge and magnetic catch.
- Model SK-01 Size 14-1/2"x6"x8"
- f. Panel attach H-spline and align, spline PL400 construction adhesive, 0.10"x32" shims and 1/2" low profile S-12 screws.
- g. View panels or walls 1/2" tempered glass or acrylic utilizing established supplier and system.
- h. Floors hard maple flooring meeting MFMA standards and grades installed per mfr.'s printed instructions.

Part III-EXECUTION

3.01 INSPECTION

A. Installing contractor shall inspect the facility prior to beginning and report any discrepancies in writing.

3.02 INSTALLATION

- A. Erect framing per plans, shop drawings and specifications, dimensions, attachments and vapor barrier requirements are critical.
- B. Apply panels and door unit per mfr.'s instructions and drawings using H-spline and PL400 adhesive attachment at each stud.
- C. Light fixtures, view panels, floors and other accessories specified shall be installed per mfr.'s specs.
- D. Completed court walls and ceilings shall be washed clean.

Manufacturer reserves the right to modify their product for improvement or as deemed necessary at any time without prior notice.

	Size	Weight	Core Density
Front	1 ½" x 48" x 96"	230 lbs.	53#
Front	1 ½" x 48" x 48"	115 lbs.	53#
Front, Back & Side	1 1/8" x 48" x 96"	175 lbs.	55#
Front, Back & Side	1 1/8" x 48" x 48"	88 lbs.	55#
Back & Side	13/16" x 48" x 96"	126 lbs.	55#
Back & Side	13/16" x 48" x 48"	64 lbs.	55#
Ceiling Panels	³ ⁄ ₄ " x 48" x 96"	97 lbs.	45#
Ceiling Panels	5/8" x 48" x 96"	82 lbs.	45#
	Environmental Certifications		Core Density
Standard Core	Industrial Grade Particleboard Conforming to ANSI A208.1-2009.		45#, 53#, 55#
	CARB Phase II compliant.		45#, 53#, 55#
	SCS Certified		45#, 53#, 55#
	FSC Certified		45#, 53#, 55#
	EPP Certified		45#, 53#, 55#
	LEED 2009 Credits Supported	Materials & Resources 4,5,7	45#, 53#, 55#
Moisture Resistant Core:	Industrial Grade Particleboard Conforming to ANSI A208.1-2009 moisture-resistant specs for MR10.		53#, 55#
	CARB Phase II compliant.		53#, 55#
	SCS Certified		53#, 55#
	FSC Certified		53#, 55#
	EPP Certified		53#, 55#
	LEED 2009 Credits Supported	Materials & Resources 4,5,7	
	Indoor Environmental Quality: 4.4	No added urea formaldehyde	53#, 55#
	CHPS Compliant	Meets Materials Specs for VOC emissions section 01350	53#, 55#
Surfaces:	Proprietary Fiberesin high pressure hot pressed and fused layered melamine and phenolic buildup.		

PANEL SPECIFICATIONS

FIBERESIN Industries

KIN

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