

## PART 1 — GENERAL

### 1.01 — Description

- A. SCOPE — Provide all labor, materials, and equipment necessary to complete the installation of prefabricated racquetball court walls and ceiling. All work shall be done in a workmanlike manner, conforming to industry standards, including but not limited to the following:
- |  |   |   |
|--|---|---|
| 1. Wall and ceiling panel and related steel stud framing and/or wood furring | 4. CRS Glass walls (with Opacified Glass Design optional) | (WORK NOT INCLUDED)   |
| 2. Multi-purpose CRS Convert-A-Court Moving Glass Backwall                   | 5. Doors and valuable storage compartments                | a. HVAC components.   |
| 3. Light Fixtures  | 6. Floor and wall markings                                | b. Finish trim on backwalls, common wall cutouts or corridor side of courts |
|  | 7. Wallyball Kits   | c. Electrical wiring and hook-up to light fixtures.                         |
|  | 8. Floors   |   |

### 1.02 — Quality Assurance

- A. SUPPLIER:
- For purposes of establishing quality requirements, these specifications are based upon the CRS Products International Panel System as supplied by CRS Products International 1-800-661-4174 (416) 283-3452 Fax: (416) 283-3452, or Edmonton (403) 484-2786 Fax: (403) 484-5827, 10021 - 169 Street, Edmonton, Alberta, Canada T5P 4M9, 150 Gate 5 Road, Suite 204, Sausalito, California, U.S.A. 94965 Toll Free: 1-800-661-4174 (415) 543-4113 Fax: (415) 332-0818, Unit #1 3511 Viking Way, Richmond B.C., Canada V6V 1W1 (604) 278-7997 Fax: (604) 278-7967. Consideration will be given by the Architect to other systems if, in his opinion, it is of equal quality. Submit information on products for approval at least 10 days prior to bid date.
- B. INSTALLER:
- All work in conjunction with the racquetball and/or squash courts as indicated on the drawings and as specified herein shall be installed by one specialty contractor with no less than 15 years experience.
  - Submit a list of at least three completed projects of similar magnitude and complexity.

### 1.03 — Submittals

- A. Samples: Submit Samples of wall and ceiling panels. C. Shop Drawings: Submit in accordance with plans and specifications.  
B. Brochures: Submit three copies of supplier's brochures.

### 1.04 — Product Delivery, Storage and Handling

- A. No materials shall be delivered to the jobsite until building is completely enclosed and weathertight.  
B. It is critical to the acclimation of the flooring and panels that proper humidity and temperature be maintained in the court area. Therefore, the permanent HVAC shall be in operation prior to material arrival. Panels and flooring must be brought into the court area five to seven days before installation under desired use conditions, which should not be less than 13°C (58°F), nor greater than 26°C (80°F), and within the range of 40 to 60 percent relative humidity. Panels should never be subjected to direct sunlight, rain, or wide variations of ambient conditions during unloading, storage, or installation.  
C. Store materials properly stacked in clean, dry, storage area.  
D. Panels shall be stacked flat and delivered on pallets. After delivery, panels shall have banding and wrap removed to allow panel to acclimate to room conditions.  
E. Material not properly protected and stored and which is defaced or damaged shall be rejected.
- 1.05 — Warranty
- A. Material and workmanship in conjunction with racquetball and/or squash courts shall be warranted against defects for five (5) years after installation. Warranty covers such defects as structural failure, delamination, and workmanship when installed and handled according to CRS Products International Specifications and Procedures, and under normal playing conditions. CRS Products International guarantees each panel to a corner to corner tolerance of +/-0.8 mm (1/32"), an end-to-end tolerance of +/-0.8 mm (1/32"), and a playing surface to playing surface tolerance of +/-0.4 mm (1/64") when installed by CRS Products International and according to conditions set forth in these specifications.

## PART 2 — PRODUCTS

### 2.01 — Materials

- A. Steel Framing:
- Front walls — 152 mm (6") x 1.2 mm (18) ga. metal cee studs, 305 mm (12") o.c. with deep leg track
  - Back walls — 152 mm (6") x 1.2 mm (18) ga. metal cee studs, 305 mm (16") o.c. with deep leg track
  - Side walls — 152 mm (6") x 1.2 mm (18) ga. metal cee studs, 305 mm (16") o.c. with deep leg track
  - Common walls — 152 mm (6") x 1.2 mm (18) ga. metal cee studs, 400 mm (16") o.c. with deep leg track
  - Ceiling joists — 152 mm (6") x 1.5 mm (16) ga. metal cee studs, 400 mm (16") o.c.
- Note: 92 mm (3 5/8") x 1.2 mm (18) ga. metal cee studs may be substituted at perimeter walls if bracing can be attached at 0.25 mm (1/4) points to exterior building wall or mezzanine deck support.
- B. FURRING: (supported by masonry walls)
- Front walls — nominal 25.4 mm (1") x 100 mm (4") or 50.8 mm (2") x 100 mm (4") furring, 305 mm (12") o.c.
  - Side walls — nominal 25.4 mm (1") x 100 mm (4") or 50.8 mm (2") x 100 mm (4") furring, 400 mm (16") o.c.
  - Back walls — nominal 25.4 mm (1") x 100 mm (4") or 50.8 mm (2") x 100 mm (4") furring, 400 mm (16") o.c.
- Note: Masonry walls shall be furnished to Racquetball court sub-contractor straight and plumb with a maximum variation of 3 mm (1/8") in any 3 meters (10') radius. Furring members shall be mechanically attached with low velocity Hilti shot at 2' intervals. Exterior walls should be properly insulated and vapor proofed.
- C. PANELS: (UL Fire Rated Wall Panels available upon request)
- Thickness: Squash Court front wall Model #176-CRS-6538 mm (1 7/16") thick, Squash Court side wall and Racquetball Court. Front wall Model #0118-CRS-65 — 28.6 mm (1 1/8") thick incorporating 6.35 mm (1/4") thick 1153 kg/cu m (72 lbs./cf) hardboard on both the playing and non playing sides with a 1.4 mm (0.050") thick 1362 kg/cu m (85 lbs./cf) high density plastic laminate surface both sides for a total composite density of 1041 kg/cu m (65 lbs./cf). Side and rear walls Model #1316-CRS-S — 20.6 mm (13/16") thick, 961 kg/cu m (60 lbs./cf) composite density. Ceiling Model #0058-CRS — 15.9 mm (5/8") thick, 721 kg/cu m (45 lbs./cf) composite density.
  - Dimensions: Panel sheets shall be 1219 mm (4') x 2438 mm (8') and 1219 mm (4') x 1219 mm (4') and installed in a staggered configuration.
  - Surface: High-pressure plastic laminate with velvet texture finish 1.4 mm (0.050") in thickness with an average density 1362 kg/cu m (85 lbs./cf).
  - Core: Industrial grade high density particle board of nominal 882 kg/cu m (55 lbs./cf) and 721 kg/cu m (45 lbs./cf) density conforming to commercial Standards (CS236-66).
5. Squash Court paneling must conform to International Squash Racquet Regulation sizes of 38 mm (1 7/16") for front walls and 28.6 mm (1 1/8") for side walls.
- D. ADHESIVE:
- Rigid set glue conforming to Federal Specifications MMM-A-188. Attach panels to steel stud system or wood furring with screws and B.F. Goodrich P.L. 400 or W.W. Henry #217 heavy bodies structural adhesive.
- E. DOOR:
- Shall be a 45 mm (1 3/4") solid core wood door as manufactured by Stratford Industries with full length piano hinge and covered both sides with matching plastic laminate. Soss hinges are not acceptable. Door size 762 mm (26") x 2032 mm (68") with 254 mm (10") x 254 mm (10") viewport, or CRS Sports glass door C/W frame. Available in special sizes.
- F. GLASS: (5 year warranty)
- CRS Sports glass and Multi-Purpose Convert-A-Court as manufactured and supplied by CRS Products International. Complete glasswall systems court doors and view windows.
- G. LIGHTS:
- Flourescent fixtures by Devoe Systems.
  - Metal halide fixtures by Abolite Lighting, with heat and impact resistant prismatic glass lenses.
- H. FLOORS
- Concrete sub-floor shall be furnished to the racquetball court sub-contractor broom-clean and steel troweled smooth, and level with a maximum variation of 3 mm (1/8") in any 3 m (10') radius. Any leveling required to meet this tolerance shall be the responsibility of the general contractor or owners.
  - CRS Products International provides and installs wood floor systems utilizing MFMA northern hard maple.
- I. TELL-TALES (Game Line Mouldings):
- Squash court tell-tales (delete if not applicable) — 0.60 mm (16) gauge steel and appropriate dimension size. Game Line Moulding (14) gauge.
- J. ACCESSORIES
- Valuable storage compartments (valu box) as manufactured by CRS Products International.
  - CRS Wallyball Set interior or Racquet Ball Court as supplied and installed by CRS Products International.

## PART 3 — EXECUTION

### 3.01 — Inspection

- A. Inspect court area to ensure conditions as set forth in these specifications have been adhered to.  
B. Inspect concrete sub-floors and masonry walls for proper tolerance and dryness. Discrepancies should be reported to the general contractor and architect in writing. Correction of such is the responsibility of others.  
C. Masonry walls shall be free of protruding mortar by masonry contractor.

### 3.02 — Installation

- A. Install metal studs and/or furring in width and spacing in locations as shown on plans. Studs shall be plumb and corners square. Attach aluminum spline to studs with no fewer than four (4) screws per panel edge. Each stud shall receive a ribbon of construction adhesive the full length of the panel. No plugs shall be used and no screwheads shall show.  
B. Clean-up all debris caused by work in this section and remove same from the premises.

Manufacturer reserves the right to change design or specifications to improve product or processing at any time, without notice.

# 1-800-661-4174