



THE CITY OF WINNIPEG

SPECIFICATIONS

TENDER NO. 971-2024

STEPHEN JUBA PARK FITNESS TRAIL

PROJECT

**Stephen Juba Park Fitness Trail
65 Bannatyne Ave. and 11 Pioneer Ave.**

FOR OWNER

City of Winnipeg
Planning & Urban Design Division
15-30 Fort Street
Winnipeg, MB R3C 4X5
Attn: Marsha Christiuk
Email: mchristiuk@winnipeg.ca

PRIME CONSULTANT

ft3 Architecture Landscape Interior Design
200-300 Waterfront Drive
Winnipeg, MB R3B 0G5
Tel: (204) 885-9323
Attn: Kristen Struthers
Email: struthers@ft3.ca

CIVIL CONSULTANT

Sison Blackburn Consulting Inc.
60 South Landing Drive
Oak Bluff MB, R4G 0C4
Tel: (204) 505-0855
Attn: Michelle Loewen
Email: mloewen@SBCinc.ca

END OF SECTION

DIVISION 32 – EXTERIOR IMPROVEMENTS

32 18 16.13 – Playground Protective Surfacing 3
32 18 27 – Rubber Surfacing 2
32 33 00 – Site Furnishings 3

END OF SECTION

Part 1 GENERAL

1.1 WORK INCLUDED:

- .1 Work will include labour, material and equipment required to install engineered wood fibre safety surfacing, as well as sand safety surfacing, and associated sub-surface drainage.

1.2 RELATED WORK:

- .1 CW 1110 – General Instructions
- .2 CW-3130 – Supply and Installation of Geotextile Fabrics

1.3 SUBMITTALS

- .1 Provide in accordance with CW 1110 – General Instructions.
- .2 Product Data:
 - .1 Provide manufacturer's instructions, printed product literature and data sheets for engineered wood fibre and include product characteristics, performance criteria, physical size, finish and limitations.

Part 2 PRODUCTS

2.1 MATERIALS

- .1 Engineered Wood Fiber surfacing shall be supplied by an authorized distributor and delivery slips and/or a warranty certificate from an authorized supplier are to be submitted to the Contract Administrator prior to installation.
 - .1 Acceptable Products:
 - .1 Woodcarpet - Zeagar Bros. Inc.
4000 East Harrisburg Pike
Middletown, PA 17057, USA
Ph: (1-800) 346-8524 or (717) 944-7481
Fax (717) 944-7681
Email: sales@zeager.com
 - .2 FibarSystem 300 – The Fibar Group LLC
80 Business Park Drive, Suite 300
Armonk, NY 10504-1705, USA
Ph: (800) 342-2721
Fax (914) 273-8659
Email: Info@FibarPlaygrounds.com
 - .2 Geotextile is to be normal duty, non-woven fabric as per CW-3130.

Part 3 EXECUTION

3.1 INSTALLATION

- .1 Engineered Wood Fibre shall be installed at Fitness Stops 1, 3 and 6, as defined by the timber edging to a minimum depth of 300mm (after compaction).
- .2 Do not compact the material during installation.
- .3 Installation of entire system, including safety surfacing, geotextile fabric and subsurface drainage shall be done according to manufacturer's instruction. Adequate drainage within play area must be ensured as per same.
- .4 Play area shall be graded to drain to one edge of the play area, and area cleared of any debris which inhibits proper drainage or installation of products.
- .5 Installation shall be done by equipment sized to suit the Work being done and the safety surfacing shall be spread by hand as necessary in the immediate vicinity of any existing trees so as not to damage same.

3.2 SITE PROTECTION

- .1 Vehicular traffic not permitted directly on protective play surfacing.

3.3 CLEAN UP

- .1 Upon completion of work in the section, remove all tools, equipment, unused materials and debris from the site; clean the immediate area.

END OF SECTION

Part 1 GENERAL

1.1 WORK INCLUDED:

- .1 Work will include labour, material and equipment required to install Rubber FX.

1.2 RELATED WORK:

- .1 CW 1110 – General Instructions

1.3 SUBMITTALS

- .1 Provide in accordance with CW 1110 – General Instructions.

1.4 DELIVERY AND STORAGE

- .1 Materials must be delivered without damage. Materials must be unopened and handled with care. All resins must be stored above 5 degrees C and no warmer than 34 degrees C.

1.5 SCHEDULING

- .1 Co-ordinate with the site inspector to ensure materials arrive on time and are protected during the installation process.

1.6 WARRANTY

- .1 All materials will be installed by a trained Rubber FX installer and guaranteed under the written warranty stated in the contract. Product will be free of defects from inferior materials and workmanship as stated in the contract.

1.7 QUALITY ASSURANCE

- .1 The authorized Rubber FX installer must have a minimum of 5 years' experience in the rubber safety surfacing industry to install Rubber FX playgrounds.

1.8 TEMPERATURE AND CONDITIONS

- .1 The temperature must be above 5 degrees C for the entire period of the installation. Humidity must be monitored as well as moisture to ensure proper bonding and cure time of the project.

Part 2 PRODUCTS

2.1 MATERIALS

- .1 Granules – Pure vulcanized EPDM rubber chips ranging in size from 0.5 to 1.5 mm minimum dimension to 1-4 mm maximum dimension. EPDM rubber shall be of the highest quality (German Produced) and UV stable.
- .2 Binder – Resin (Chemical Family: Aromatic or Aliphatic binders, Isocyanate). Binder shall be 100% urethane and contain no TDI and not labeled Toxic. Accelerators may be used with aliphatic binders.
- .3 Primer – Aromatic or Aliphatic thinned with solvent or solvent free primer.

2.2 FINISHED PRODUCT:

- .1 Shall meet or exceed current ASTM F1292 and CAC/CSA Z-614 for GMAX & HIC testing.
- .2 Acceptable product: **Bounce Back Surfaces**
 - .1 Colour:
 - .1 Type A 50% Iron Grey 7011 and 50% Medium Grey 7037
 - .2 Type B Teal 5018
 - .3 Type C Pink 4003
 - .4 Type D Yellow 1012
 - .2 Supplier: Prairie Rubber Surfacing
 - .3 Contact: Corey Redstone
t: 204.632.0665
e: corey@prairierubberpaving.ca

2.3 TESTING:

- .1 The system should be tested to the following standard.
- .2 Hardness: ASTM D-2444 94% recovery
- .3 Water Absorption: ASTM D-530 +6.5%
- .4 Ultraviolet Resistance: ASTM D-3137
- .5 Fungal Resistance: no growth
- .6 Bacterial Resistance: no growth
- .7 Spread of Flame Resistance: ANSI/UL 790 (ULC=S107) Class A
- .8 Accelerated: weathering no change after 2000 hours
- .9 Freeze/ Thaw; no change after 30 days at minus 50 in a 24 hour period

Part 3 EXECUTION

3.1 PREPARATION

- .1 All material utilized for base course, including adhesives must be as recommended by the rubber surfacing manufacturer.

3.2 INSTALLATION: SBR (Recycled Rubber Base)

- .1 Base mat thickness will vary, depending on the fall height compliance required.
- .2 A crumb rubber/resin base layer shall be mixed in a mechanical mixer with a Aromatic urethane at a ratio of approximately 100/11. Base may range in thickness from 1.5 inches up to 5.5 inches.
- .3 Materials need to be mixed for a length of time to allow proper coating of all rubber granules with aromatic resin.
- .4 On installations where there is no retaining border such as concrete curbs or pressure treated timbers, rolled edges or bevels shall be implemented.
- .5 Let base fully cure.

3.3 INSTALLATION: EPDM TOP COAT

- .1 Spread polyurethane binder coat over the entire SBR layer.
- .2 The selected EPDM colored granules for topcoat should be coated with resin in a mechanical mixer at a resin ratio of approximately 80/20. Topcoat should be troweled out to approximately 3/8 inch thickness. It is recommended that the mixing of the topcoat be carried out with a electric mortar mixer to ensure consistency and assuring complete coverage of each granule.
- .3 It should be noted that EPDM makes an excellent topcoat as the rubber is colored throughout the entire granule. It is not a black recycled granule mixed with colored urethane coating which will quickly show wear patterns, fading and harden over time.
- .4 Black recycled granule with colored urethane coating is no longer provided due to the long term health and safety risks incurred.

3.4 HEALTH & SAFETY

- .1 When using either urethane or solvent products, whether during the mixing or application, the wearing of protective gloves is essential. This will protect contact with the skin directly with the above materials. The gloves will be required to be changed regularly throughout the installation and sufficient quantities of same should be allowed for.
- .2 Should any resin or solvent come into contact with the skin, this should be immediately washed off using suitable detergents and water.
- .3 When troweling the product it is recommended that rubber kneepads or kneeboards be used.
- .4 Read all material Safety data Sheets (MSDS) prior to installation. All relevant MSDS sheets should be on site during installation.
- .5 Local laws and regulations in regards to health & safety should be observed at all times.

3.5 SITE PROTECTION

- .1 Erect barricades or caution tape as required preventing inadvertent pedestrian traffic on the finished floor surface for a period of 24-48 hours.
- .2 Where access to the public is possible, barricades and signs must be implemented around the working area, again to avoid inadvertent traffic.

3.6 CLEAN UP

- .1 Upon completion of work in the section, remove all tools, equipment, unused materials and debris from the site; clean the immediate area.

END OF SECTION

1 General

1.1 RELATED SECTIONS

- .1 CW 1110 - General Instructions

1.2 WASTE MANAGEMENT AND DISPOSAL

- .1 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .2 Collect and separate for disposal packaging material in appropriate on-site bins for recycling.
- .3 Separate and place in designated waste containers.
- .4 Fold up metal banding, flatten and place in designated area for recycling.

1.3 SUBMITTALS

- .1 Provide in accordance with CW 1110 - General Instructions
- .2 Product Data:
 - .1 Provide manufacturer's instructions, printed product literature and data sheets for furniture and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
 - .1 Submit shop drawings indicating dimensions, sizes, assembly, anchorage and installation details for each furnishing specified.
- .4 Provide maintenance data for care and cleaning of site furnishings for incorporation into maintenance manual.

2 Products

2.1 BOTTLE FILLING STATION

- .1 Acceptable Material: **Outdoor ezH2O® Upper Bottle Filling Station Bi-Level Pedestal with Pet Station Non-Filtered Non-Refrigerated Freeze Resistant (Model LK4420BF1UDBFRK)**
 - .1 Colour: Black (BLK)
 - .2 Dimension: 660mm L x 787mm W x 1625mm H
 - .3 Quantity: 1
 - .4 Installation: Floor Mount



2.2 CLIMBING WALL

- .1 Acceptable Material: **13+ Combo Vertical Cargo Net Climbing Wall Vertical Climb Pull Up Bar and Digifuse Sign (Model CP041600)**
 - .1 Proshield Colour: Peacock (419)
 - .2 Polyethylene Colour: Gray
 - .3 Permalene Colour: Gray
 - .4 Dimension: 4628mm L x 3000mm H
 - .5 Quantity: 1
 - .6 Installation: Direct Bury
 - .7 Manufacturer: Landscape Structures
 - .8 Supplier: Playgrounds-R-US
 - .9 Contact: Tracy Drake
t: 204.632.7000
e: tracy@pru.ca



2.3 OVERHEAD LADDER

- .1 Acceptable Material: **FitCore™ Extreme Angled Overhead Ladder (13+) (Model #243907A) and Digifuse Sign (Model CP041800)**
 - .1 Proshield Colour: Peacock (419)
 - .2 Polyethylene Colour: Gray
 - .3 Permalene Colour: Gray
 - .4 Dimensions: 6246mm L x 1287 W
 - .5 Quantity: 1
 - .6 Installation: Direct Bury
 - .7 Manufacturer: Landscape Structures
 - .8 Supplier: Playgrounds-R-Us
 - .9 Contact: Tracy Drake
t: 204.632.7000
e: tracy@pru.ca



2.4 PLYOMETRIC BOX

- .1 Acceptable Material: **GameTime Plyometric Box**
 - .1 Type A: 12" Height (300mm) **Model 13276**
 - .2 Type B: 18" Height (460mm) **Model 13277**
 - .3 Metal Colour: Black
 - .4 Dimensions: 584mm x 584mm x (height varies, see above)
 - .5 Quantity: Type A: 1, Type B:1
 - .6 Installation: Direct Bury.
 - .7 Supplier: GameTime
 - .8 Contact: Dave Jones
t: 866.551.8188 c: 204.209.0916
e: dave@parknplaydesign.com



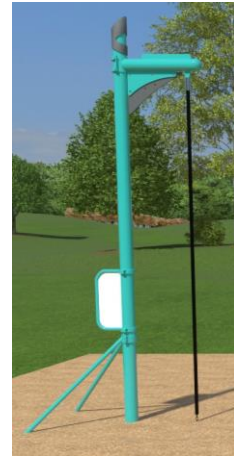
2.5 PARALLEL BARS

- .1 Acceptable Material: **GameTime Parallel Bars (Model: 13276)**
 - .1 Colour: Black
 - .2 Dimensions: 3048mm L x 559mm W
 - .3 Quantity: 1
 - .4 Installation: Direct Bury
 - .5 Supplier: GameTime
 - .6 Contact: Dave Jones
t: 866.551.8188 c: 204.209.0916
e: dave@parknplaydesign.com



2.6 ROPE CLIMB

- .1 Acceptable Material: **13+ Rope Climb (Model: 243910A) and Digifuse Sign for 13+ Rope Climber (Model: CP041601)**
 - .1 Proshield Colour: Peacock (419)
 - .2 Polyethylene Colour: Gray
 - .3 Permalene Colour: Gray (bell-mount) and Pebble (ringer)
 - .1 Dimensions: 3657mm H
 - .2 Quantities: 1
 - .3 Installation: Direct Bury
 - .4 Manufacturer: Landscape Structures
 - .5 Supplier: Playgrounds-R-Us
 - .6 Contact: Tracy Drake
 - t: 204.632.7000
 - e: tracy@pru.ca



3 Execution

3.1 PREPARATION

- .1 Locate and protect utility lines.
- .2 Notify and acquire written acknowledgement from utility authorities before beginning installation Work

3.2 INSTALLATION

- .1 Assemble furnishings in accordance with manufacturer's written recommendations.
- .2 Install true and plumb, as indicated.
- .3 Touch-up damaged finishes to approval of Consultant.

END OF SECTION