



Product Name	Undulation
Product Number	IM-1043
Size -- Length	16.12 m / 52' 11"
Size -- Width	7.55 m / 24' 9"
Size -- Height	4.20 m / 13' 9"

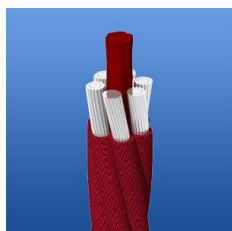
	<b>ASTM F-1487</b>	<b>CSA Z614</b>	<b>EN 1176</b>
Ages	5 years - 12 years	5 years - 12 years	6 years - 12 years
Use Zone -- Length	20.39 m / 66' 11"	20.33 m / 66' 8"	19.71 m / 64' 8"
Use Zone -- Width	12.01 m / 39' 5"	11.93 m / 39' 2"	11.37 m / 37' 4"
Use Zone -- Area	163.62 m <sup>2</sup> / 1761.2 ft <sup>2</sup>	162.05 m <sup>2</sup> / 1744.3 ft <sup>2</sup>	145.87 m <sup>2</sup> / 1570.1 ft <sup>2</sup>
Fall Height	3.23 m / 10' 7"	3.23 m / 10' 7"	2.97 m / 9' 9"

## Product Features:

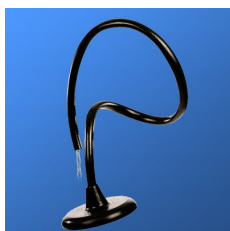
<b>SUPPORT POSTS:</b>	This will be 4 1/2" (114.3mm) OD Schedule 40 6061-T6 aluminum tubing with a minimum 15/64" (6.02mm) wall thickness. The posts will be connected to the contoured frame by 4" OD Schedule 40 6061-T6 aluminum sleeving into a coped housing to prevent exposed joints.
<b>CONTOURED FRAME:</b>	This will be 8 5/8" (219.08mm) OD Schedule 40 6061-T4 aluminum tubing with a minimum 21/64" (8.179mm) wall thickness.
<b>PAINT PROCESS:</b>	All exposed aluminum will be finished with polyester powder coating. Prior to the powder coating application, the surface will undergo sandblasting and will be treated with an electrostatic primer having a minimum thickness of 1.5 mils.
<b>CLIMBING NETS:</b>	These will be 20 mm diameter, polyester rope cable with UV protection and fire retardant solution. Each rope consists of 6 strands each containing at least 24 galvanized steel reinforcing strands within a polyester sheath, wrapped around a solid polymer core for a minimum of 144 steel reinforcing strands. Rope shall achieve a Class 7-8 Colourfastness rating.
<b>SLIDE MATERIAL:</b>	This will be UV protected LLDPE (linear low-density polyethylene).
<b>PENDULUM STEPPER:</b>	This will be a steel disc coated in a PAH free EPDM (ethylene propylene diene monomer) rubber. The rubber disc will be suspended with a galvanized steel chain covered in a protective rubber hose.
<b>COCONUT ROPE:</b>	This will be 120mm x 120mm square polypropylene rope connected to the structure with an eye-bolt system.
<b>BALL KNOTS:</b>	This will be a one-piece compressed aluminum ball, compressed in place with 150 tons force (667 kN) to prevent the connection from moving and causing premature cable wear.
<b>IGLOO CONNECTOR:</b>	This will be a stainless steel connector allowing for 1 plane of motion. The male end of the connector is secured to the rope ends with a stainless steel sleeve which is bolted to the female end on the frame.

BASIC FASTENERS:	All fasteners for component attachments are stainless steel.
INSTALLATION:	This should be installed only by a licensed playground installer, trained and certified on the relevant playground standards in place in the region of installation, e.g., NPSI, CPSI or similar certified.
COMPLIANT WITH:	<b>CAN/CSA-Z614</b> <b>ASTM F-1487</b> <b>EN-1176</b> <b>CPSC Handbook for Public Playground Safety</b>

**\*\* This design is subject to change until the final drawing is approved by both the client and engineering department.**



Climbing Net - 20 mm



Pendulum Stepper



Coconut Rope



Ball Knot



Igloo Connector