

Product Name	Astro with Floor
Product Number	DX-2300-F
Size -- Diameter	3.30 m / 10' 10"
Size -- Height	3.45 m / 11' 4"
Shipping Weight	676 kg / 1490.3 lb
Shipping Volume	5.44 m <sup>3</sup> / 192.1 ft <sup>3</sup>
Foundations	1
Concrete Volume	0.27 m <sup>3</sup> / 9.5 ft <sup>3</sup>

	<b>ASTM F-1487</b>
Ages	5 years - 12 years
Capacity	25
Use Zone -- Diameter	9.30 m / 30' 6"
Fall Height	2.40 m / 7' 10"

	<b>CSA Z614</b>	<b>EN 1176</b>
Ages	5 years - 12 years	6 years - 12 years
Capacity	25	25
Use Zone -- Diameter	9.30 m / 30' 6"	9.30 m / 30' 6"
Fall Height	2.40 m / 7' 10"	2.40 m / 7' 10"

\*Note: Concrete must be minimum 3500 PSI / 25MPa



To verify product certification, visit [www.ipema.org](http://www.ipema.org)




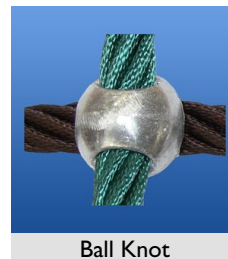
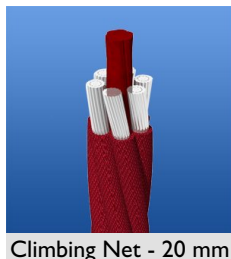
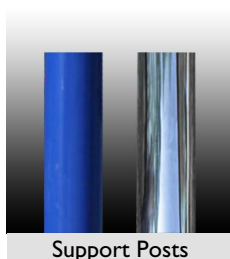
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## Product Features:

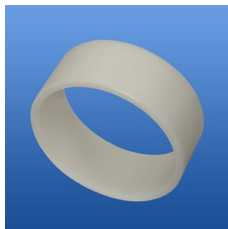
MAIN SUPPORT POST:	This inner support post provides support and stability to the rotational system. This will be constructed of 5 9/16" (141.3mm) OD schedule 40 galvanized steel pipe, embedded in a concrete foundation.
ROTATIONAL POST:	This outer support post provides the anchoring point for climbing nets and allows the unit to rotate as one. This will be constructed from 6 5/8" (168mm) OD schedule 10 steel pipe finished with polyester powder coating. The top will be finished with a 1/2" (13mm) thick top plate. Integrated climbing net connection points will be included on the top plate and along the rotational support post as required. Integrated connection points for the deck will also be provided as required.
ROTATION:	The Rotational Post will rotate along with all other parts of the play equipment in a way that prevents clothing entanglements or pinching.
ASTRO MIDDLE RINGS:	These will be 2 3/8" (60.3mm) OD steel tubing joined by 1 3/64" (26.7mm) OD steel tubing, finished with polyester powder coating. Rings will include integrated climbing net connection points as required.
HORIZONTAL RINGS:	These will be 2 7/8" (73.03mm) OD steel tubing finished with polyester powder coating. Rings will include integrated climbing net connection points as required.
20MM ROPE:	These will be 20 mm diameter polyamide (nylon) / polyester rope cable with UV protection and fire retardant solution. Each rope consists of 6 strands each containing at least 24 galvanized steel reinforcing wires within a polyamide (nylon) / polyester braid, wrapped around a solid polymer core for a total of at least 144 galvanized steel reinforcing strands. Rope shall achieve a Class 7-8 Colourfastness rating.

NET CONNECTIONS:	Each location where the climbing nets meet the ring or post will have a one-piece stainless steel junction sleeve compressed onto the rope and affixed to the post or ring connector with a bolt and nut.
BALL KNOTS:	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.
BASIC FASTENERS:	All fasteners for component attachments are stainless steel.
BEARINGS:	This will be maintenance-free self-lubricating nylon, sealed and integrated into the central post, leaving no apparent mechanism.
DECKING:	This will be constructed of custom cut 1/8" (3.2mm) thick punched steel decking with 1 5/8" (41.3mm) angle frame, 1/8" (3.2mm) thick, welded perpendicular to the deck surface for support. Deck sections are coated with Polyarmor® G17 having a minimum thickness of 20 mils (508 µm).
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.
NO-ENCROACHMENT ZONE:	Where required, this will be an obstacle-free zone that does not necessarily meet the requirements of the protective surfacing zone. See applicable standard for more information.
COMPLIANT WITH:	<b>CAN/CSA-Z614</b> <b>ASTM F-1487</b> <b>EN-1176</b> <b>CPSC Handbook for Public Playground Safety</b>
TÜV CERTIFIED:	Certified to EN 1176:2008 TÜV SÜD Certificate N° Z1 13 08 84504 002
IPEMA CERTIFIED:	The DX-2300-F identified in this specification sheet is IPEMA certified. The use and layout of the DX-2300-F conforms to the requirements of ASTM F1487 and CSA Z614. To verify product certification visit <a href="http://www.ipema.org">www.ipema.org</a> .
	† Where proper surfacing is used, this product meets the ADAAG guidelines for accessibility, allowing the same play possibilities for people of all abilities.

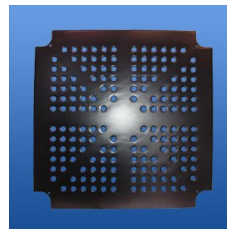




Top Bearing



Bottom Bearing



Decking