Technical specification of:

Flume ride



I.E. PARK S.r.l.

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Technical specification of: Flume ride



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Ride Description

WATER CHANNEL

Each section is made by hot dip galvanized steel flanged and bolted together with rubber pad to protect from water dripping. Connections both with other channel's sections, supports and vertical

Columns (depending on the track design) made a solid structure where water and cars flows inside depending from water speed; Channel painting/decoration is option. Standard section turning radius 3m.Each standard section is 2.24 m long.

SUPPORTS

Vertical frames support each water channel sections. They are hot dip galvanized and have a screw-register for levelling.

LOG

Single cars made thick reinforced fiberglass of special design, specifically designed to float and flow inside the water channel and be supported during ascent and descent of the lift and during embarkation and disembarkation in the station on the conveyor belts to maximise stability and safe operation. Each car has 4 seats in row(two children and two adults) with stainless steel handles, front and back pad and special designed teethed fiberglass mat for maximise legs positions. Under the car there is a rubber mat of special quality and texture to made friction with the conveyor belts. On the sides car's have wheels for slinging on the slope and anti-roll back system for the slide. Special filter allows water to exit from car when I the lift but not to enter. Rounding edges of the fiberglass specially designed for passenger's safety.

LIFTS – CONVEYOR BELTS

Lifts/Drops available in selection of heights up to Structure is hot dip galvanized. Cars are lifted to the top with a rubber conveyor belt which is programmable via plc and has ac motors. Sensors detect and control the car's access to the.

ELECTRICAL SYSTEM

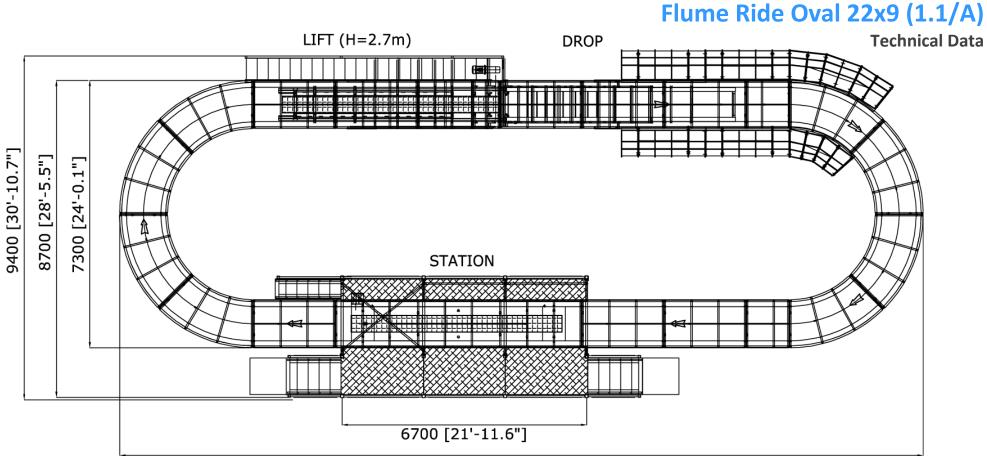
Electrical panel complete of operational push button panel and power unit, will be complete of each safety component and its control will be determined by a PLC; All electrical cables except the main supply cable will be object of the supply.

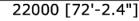
The ride has a Block Zone anti-collision system in accordance with EN13814: Sensors around the water channel in well determined position detect and control the automatic run of the cars. The water level is constantly monitored by the control system which stop the ride in case of low level.

STATION AND SCAFFALDINGS

the station, loading and unloading point will be equipped with:

- Hot dip galvanized frames for support of the footboard;
- Footboard and entry steps made with chequered alluminium fixed on galvanized frames;
- Decorative front panels;
- Fences and decorative structure in steel and painted or hot dip galvanized;
- Upon request the station can be custom design and provide with roof.





this design is an example

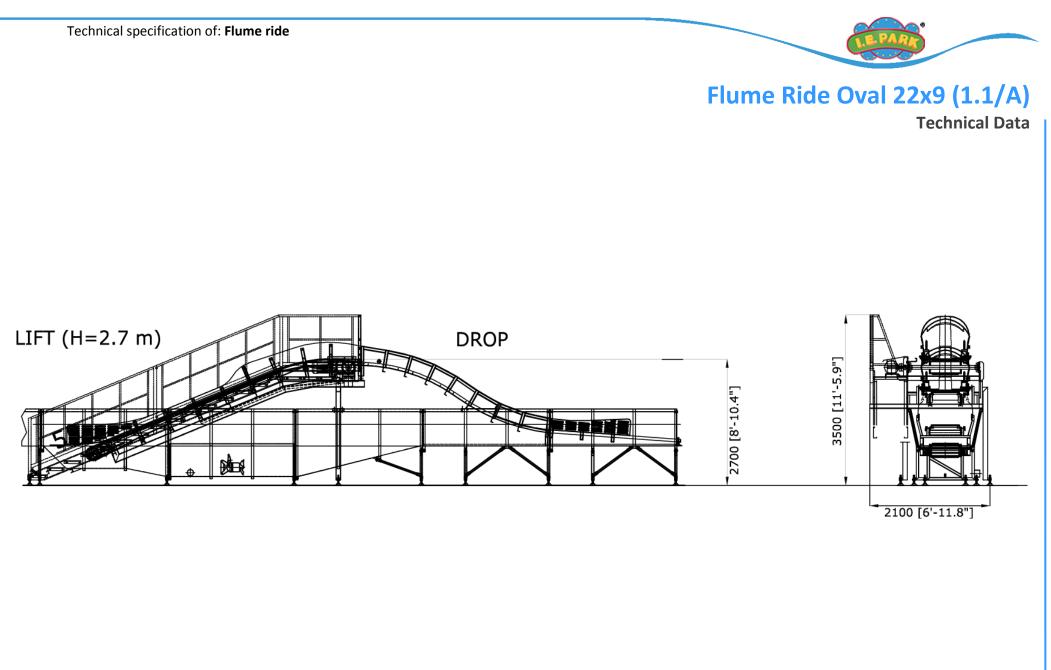
41'500 Kg - 406,97 kN
48,5 m
4
2 adults+2 children
320 passenger per hour
1 m/s
18
Simultaneous
1x40' ot + 1x20' ot

ELECTRICAL DATA

	Voltage	3phase + neutral + earth (230/400/415 V)
	Frequency	50/60 Hz
	Motive power	12 kW
	Lighting	Upon Request
	Control	Automatic/manual

Passengers age/height restrictions: Minimum admissible age 4 years old, heil 105 cm - Accompanied

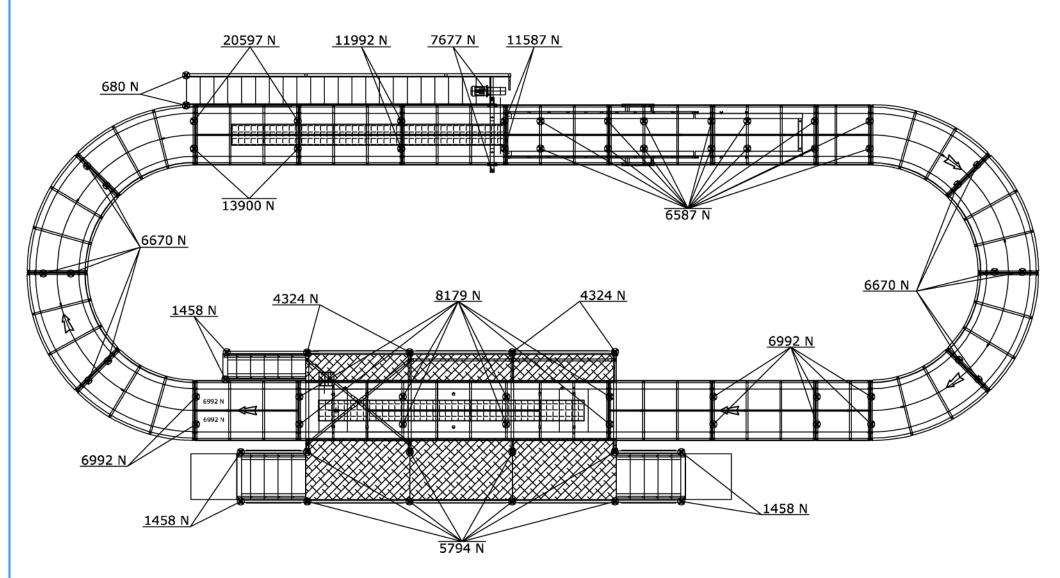
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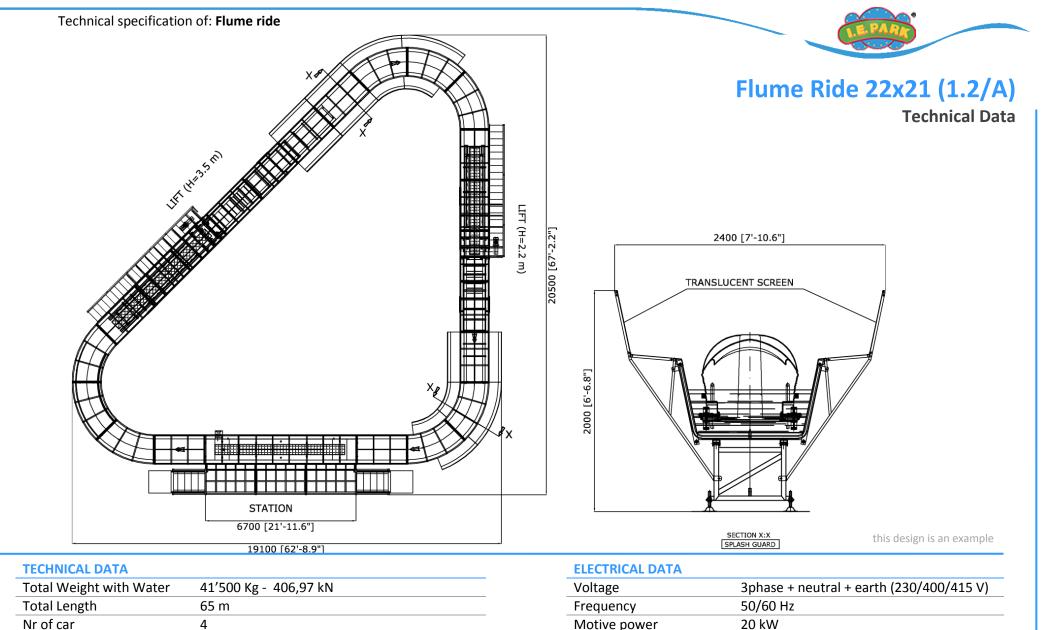




Flume Ride Oval 22x9 (1.1/A)

Loads





1 adults+2 children

Simultaneous

1 m/s

2x40' ot

23

450 passenger per hour

Log capacity Total capacity

Max log speed

Shipping volume

Nr of basin

Boarding

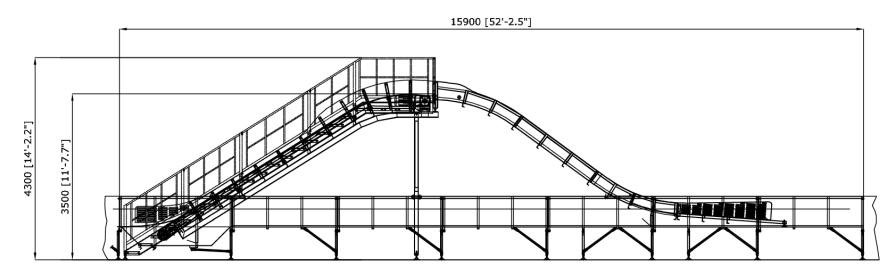
riequency	56,66112
Motive power	20 kW
Lighting	Upon Request
Control	Automatic/manual

Passengers age/height restrictions: Minimum admissible age 4 years old, height 105 cm - Accompanied

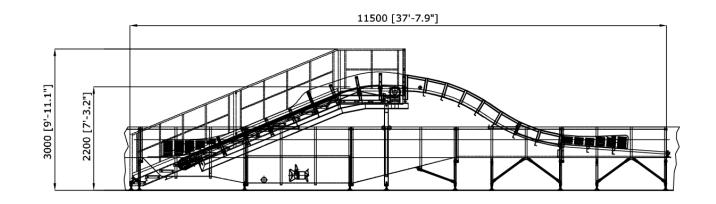


Flume Ride 22x21 (1.2/A)

Technical Data

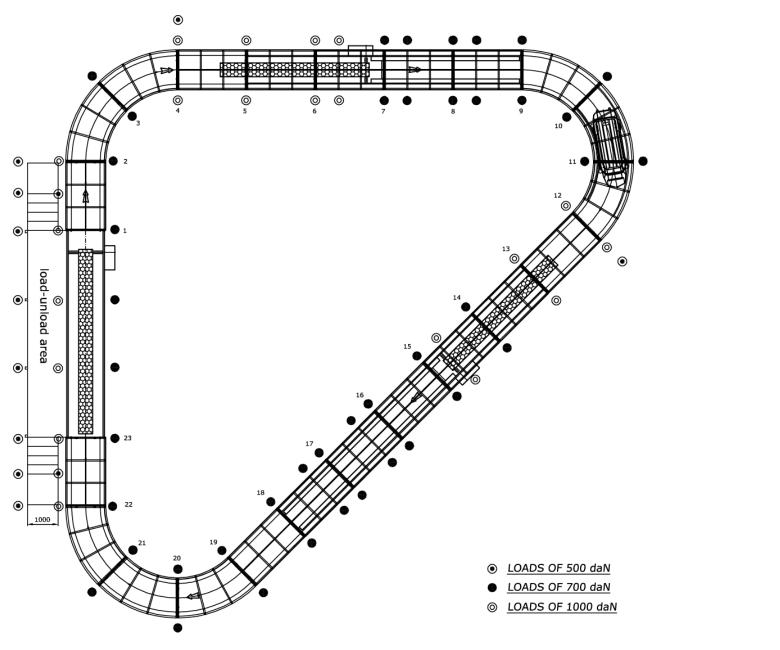


LIFT (H=3.5 m)

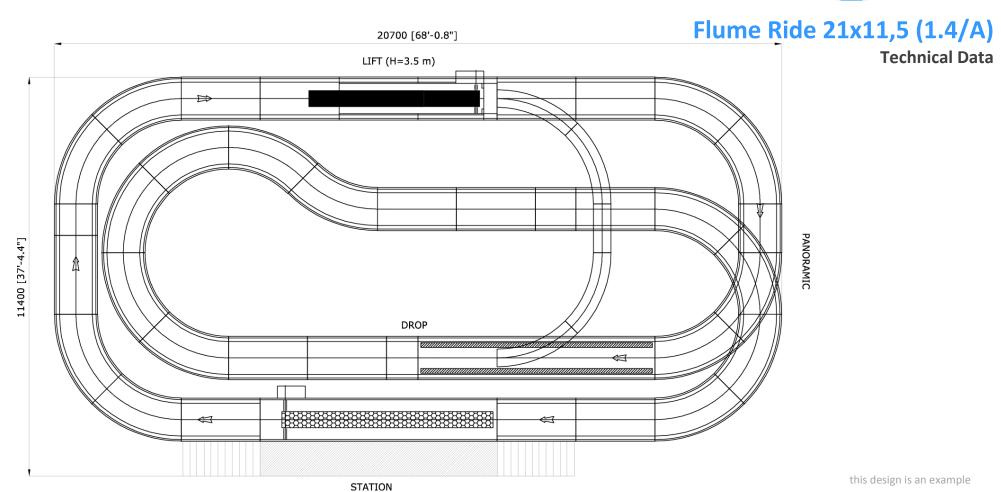


LIFT (H=2.2 m)





Loads



TECHNICAL DATA			
	TECHNI		

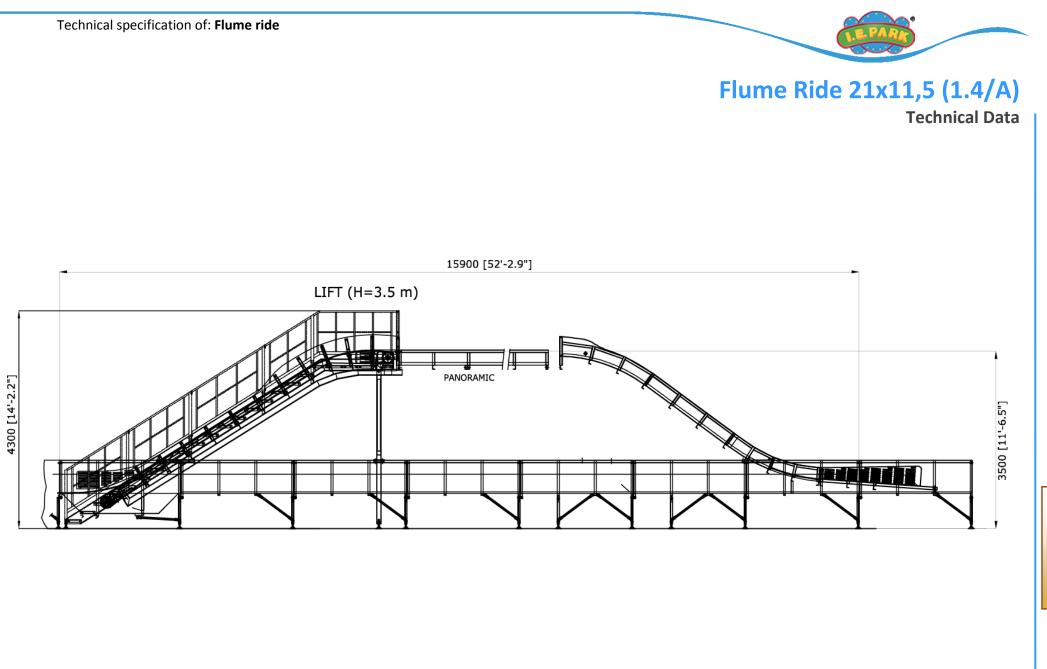
Technical specification of: Flume ride

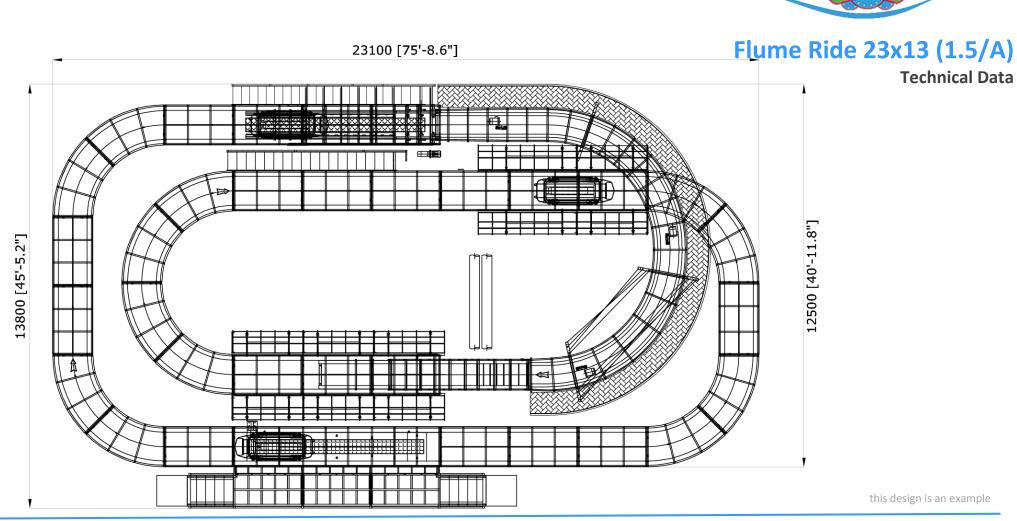
Total Weight with Water	68'000 Kg - 666,85 kN
Total Length	89 m
Nr of car	4
Log capacity	2 adults+2 children
Total capacity	450 passenger per hour
Max log speed	1 m/s
Nr of basin	34
Boarding	Simultaneous
Shipping Volume	4x40' ot

ELECTRICAL DATA

Voltage	3phase + neutral + earth (230/400/415 V)
Frequency	50/60 Hz
Motive power	30 kW
Lighting	Upon Request
Control	Automatic/manual

Passengers age/height restrictions: Minimum admissible age 4 years old, hei 105 cm - Accompanied





TECHNICAL DATA

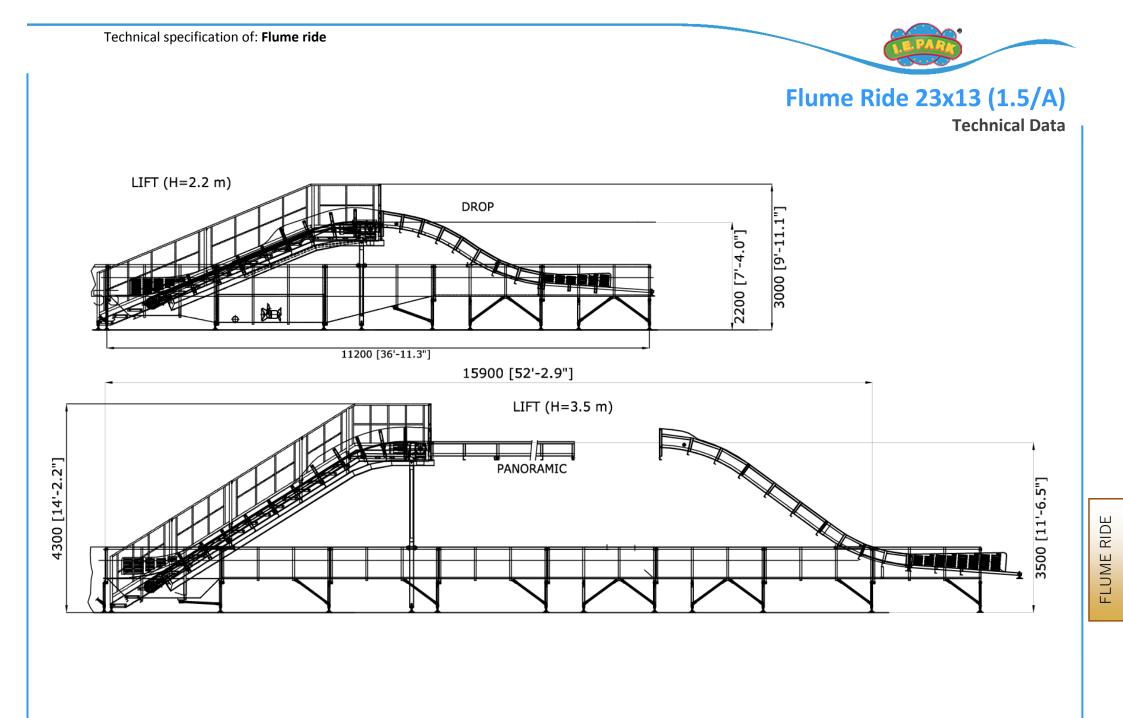
Technical specification of: Flume ride

Total Weight with Water	67'400 Kg - 661 kN
Total Length	101 m
Nr of car	4
Log capacity	2 adults+2 children
Total capacity	500 passenger per hour
Max log speed	1 m/s
Nr of basin	42
Boarding	Simultaneous
Shipping Volume	4x40' ot

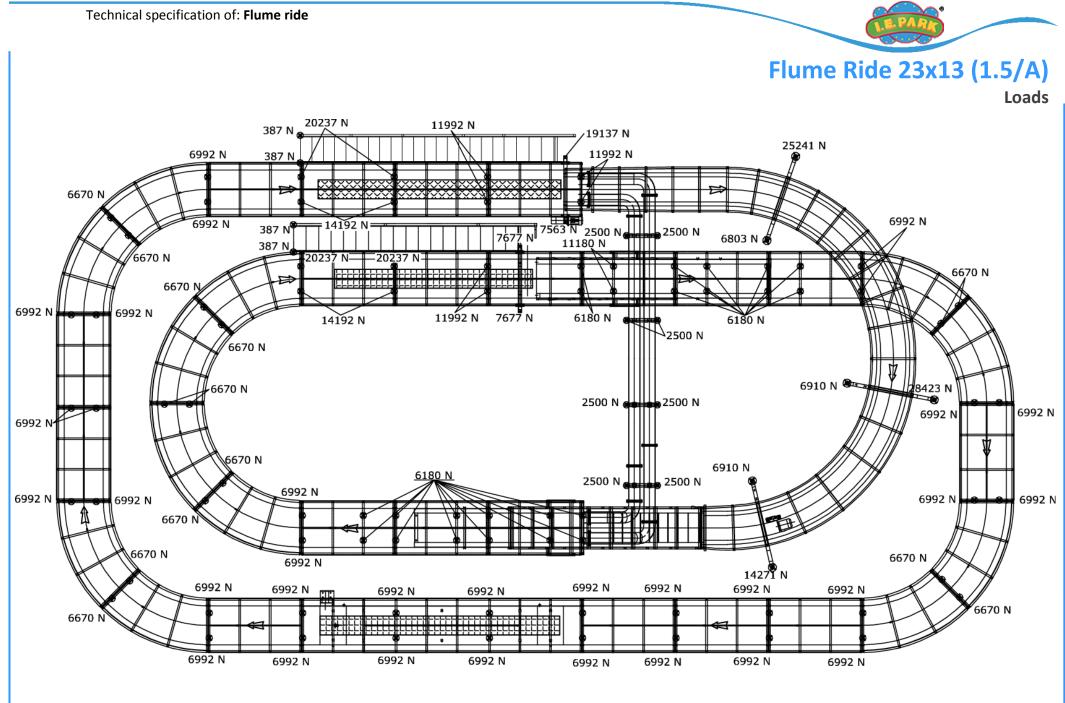
ELECTRICAL DATA

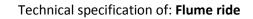
Voltage	3phase + neutral + earth (230/400/415 V)	
Frequency	50/60 Hz	
Motive power	40 kW	
Lighting	Upon Request	
Control	Automatic/manual	

Passengers age/height restrictions: Minimum admissible age 4 years old, h 105 cm - Accompanied



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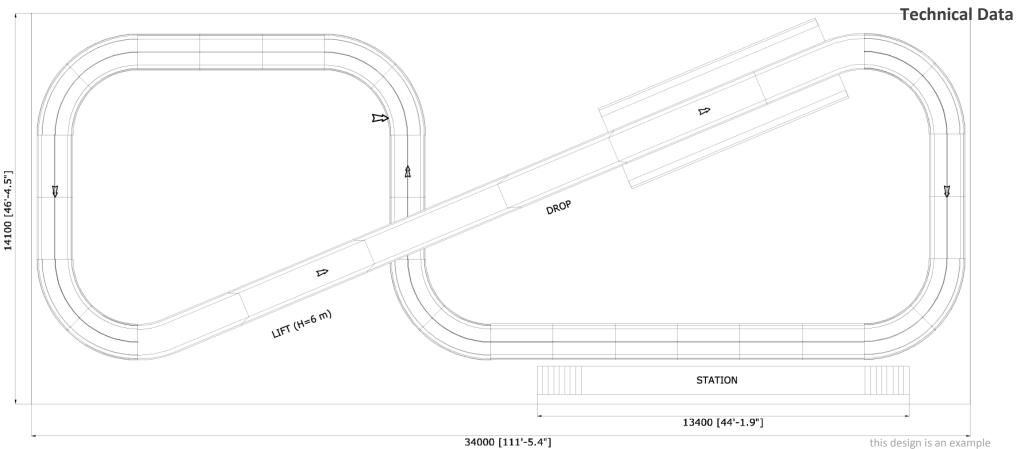




TECHNICAL DATA



Flume Ride 34x14 (1.6/A)

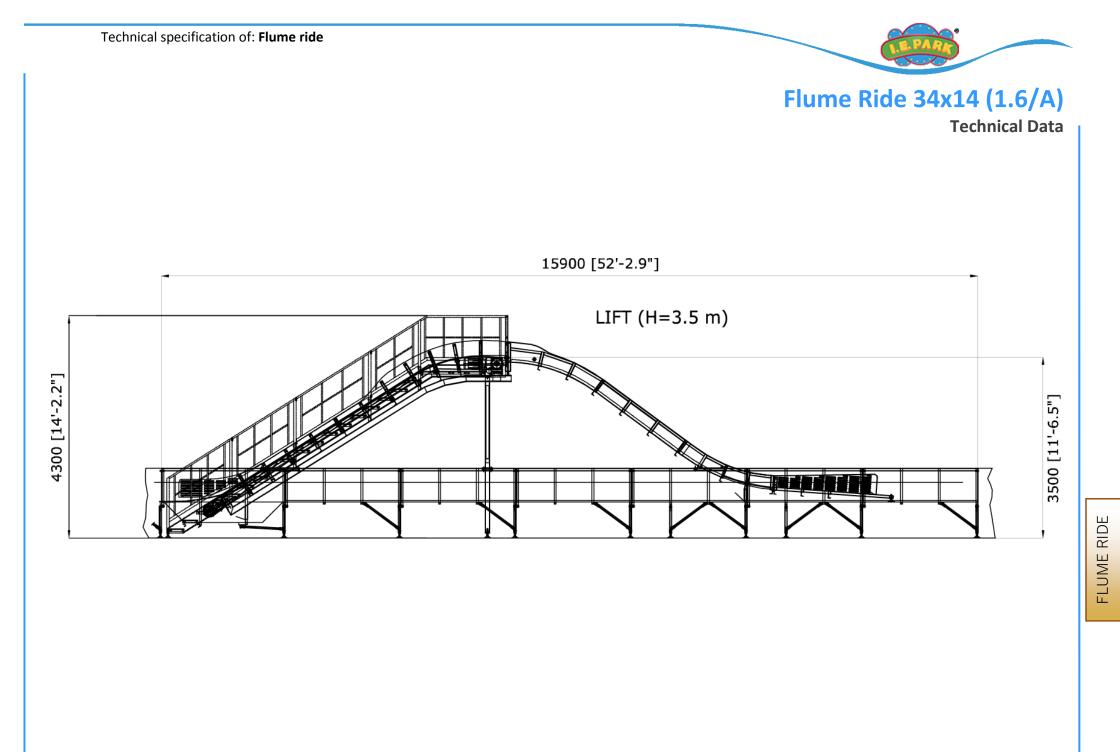


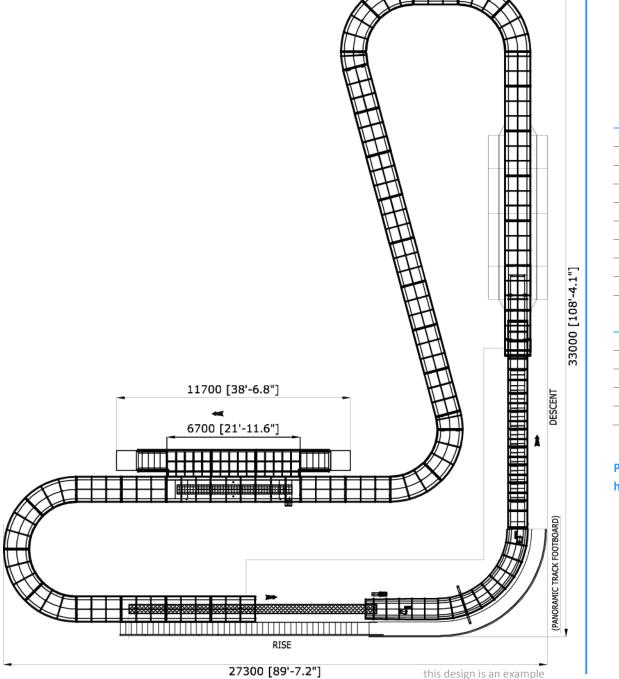
34000 [111'-5.4"]

Total Weight with Water	64'000 Kg - 627.62 kN
Total Length	94 m
Nr of car	4
Log capacity	2 adults+2 children
Total capacity	500 passenger per hour
Max log speed	1 m/s
Nr of basin	27
Boarding	Simultaneous
Shipping Volume	5x40'ot

ELECTRICAL DATA		
Voltage	3phase + neutral + earth (230/400/415 V)	
Frequency	50/60 Hz	
Motive power	40 kW	
Lighting	Upon Request	
Control	Automatic/manual	

Passengers age/height restrictions: Minimum admissible age 4 years old, h 105 cm - Accompanied







Flume Ride 33x27 (1.7/A)

Technical Data

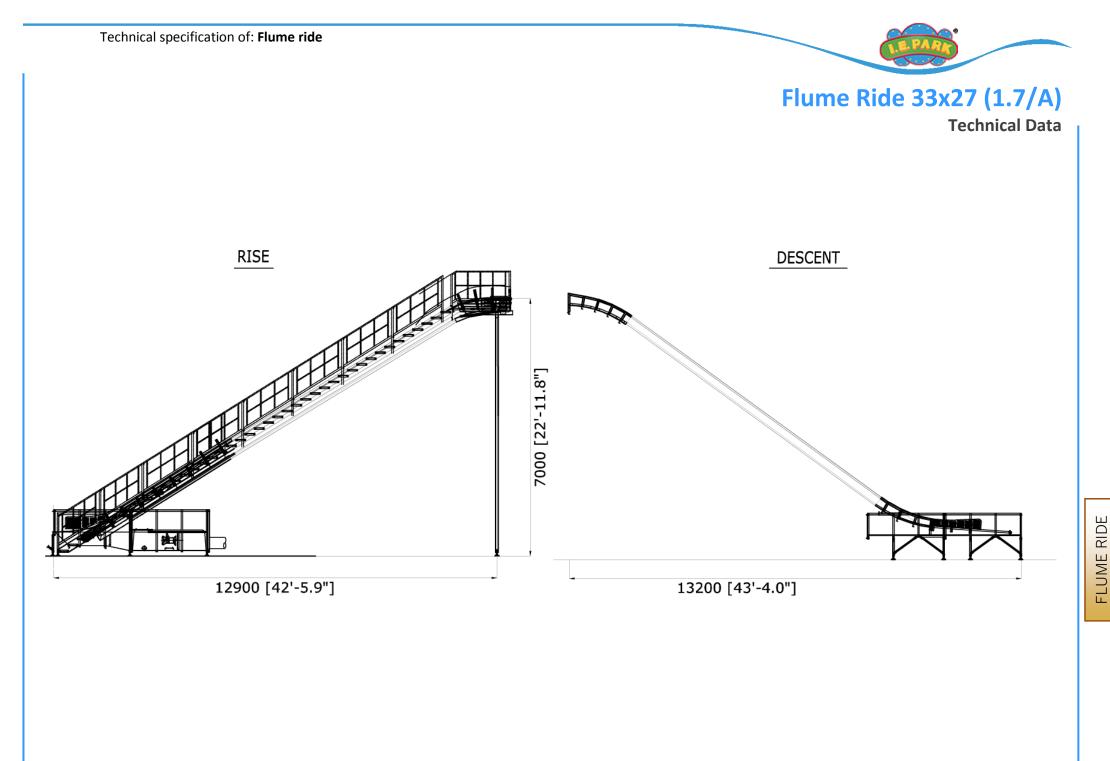
TECHNICAL DATA

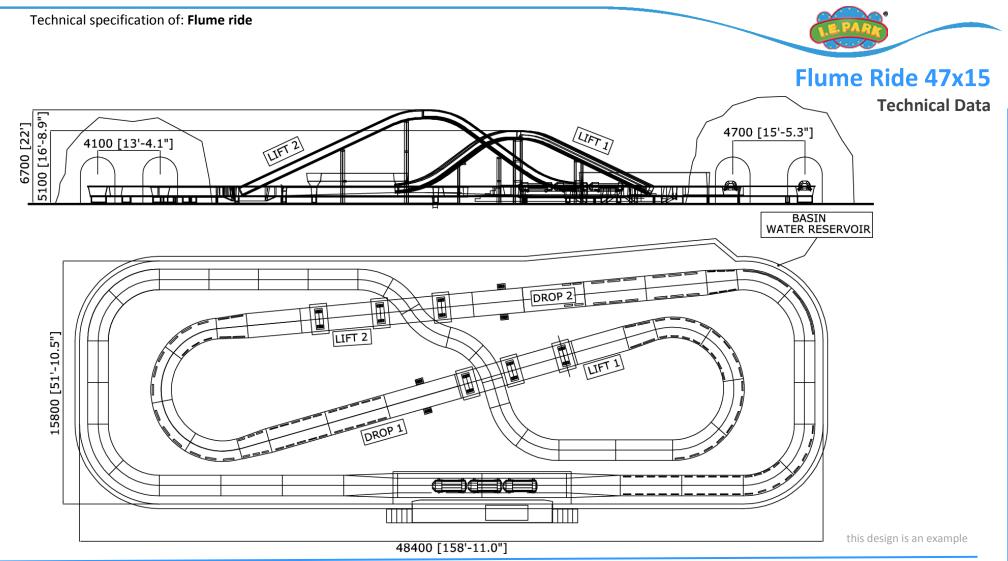
Total Weight with Water	70'000 Kg - 686.46 kN
Total Length	114 m
Nr of car	4
Log capacity	1 adults+2 children
Total capacity	600 passenger per hour
Max log speed	1 m/s
Nr of basin	41
Boarding	Simultaneous
Shipping Volume	5x40'ot

ELECTRICAL DATA

Voltage	3phase + neutral + earth (230/400/415 V)
Frequency	50/60 Hz
Motive power	40 kW
Lighting	Upon Request
Control	Automatic/manual

Passengers age/height restrictions: Minimum admissible age 4 years old, height 105 cm - Accompanied





Total Weight with Water	64'000 Kg - 627.62 kN
Total Length	210 m
Nr of car	6
Log capacity	2 adults+2 children
Total capacity	500 passenger per hour
Max log speed	1,4 m/s
Nr of basin	55
Boarding	Simultaneous
Shipping Volume	5x40'ot

ELECTRICAL DATA

	Voltage	3phase + neutral + earth (230/400/415 V)	
	Frequency	50/60 Hz	
	Motive power	45 kW	
	Lighting	Upon Request	
	Control	Automatic/manual	

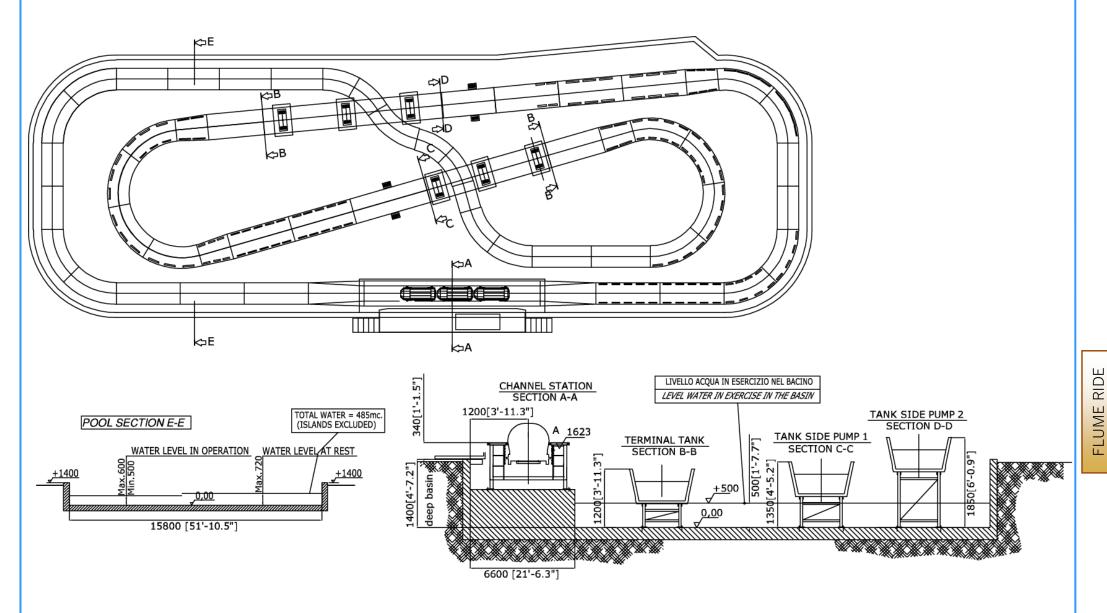
Passengers age/height restrictions: Minimum admissible age 4 years old, heig 105 cm - Accompanied







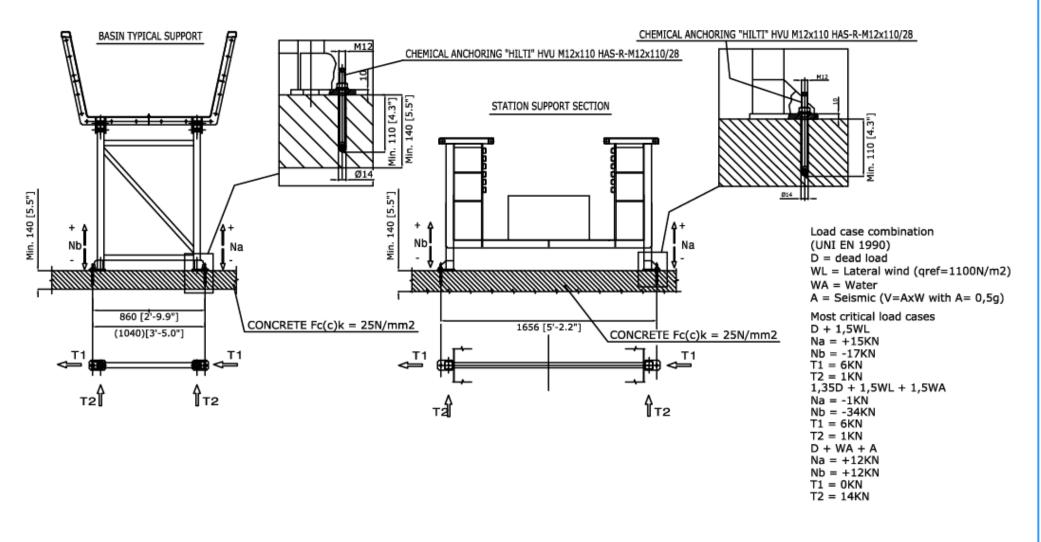
Sections



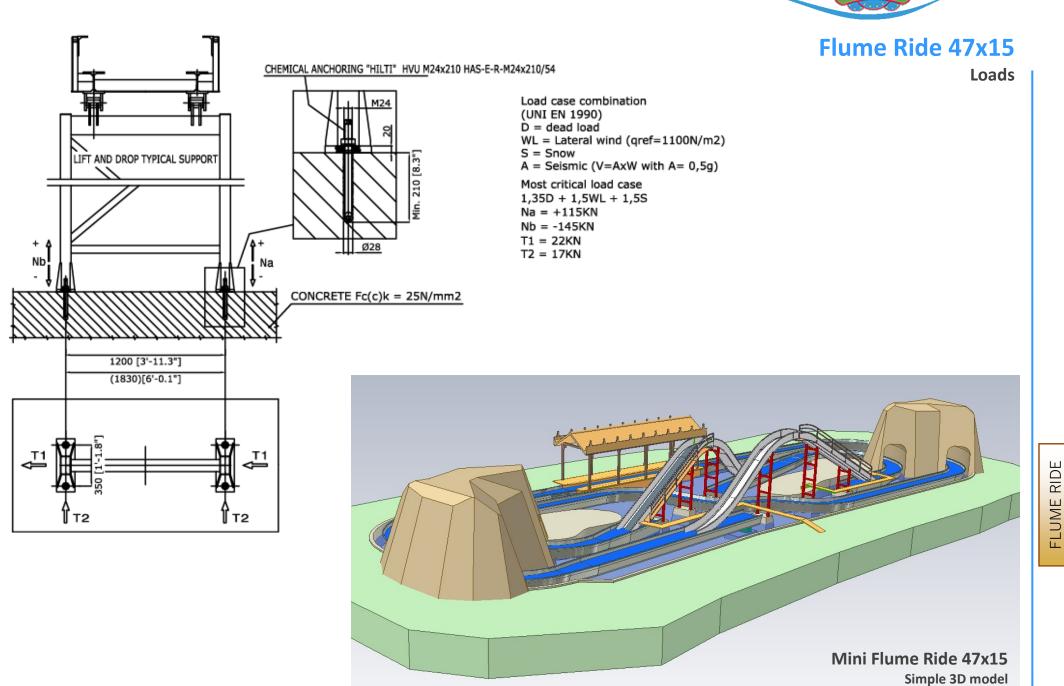


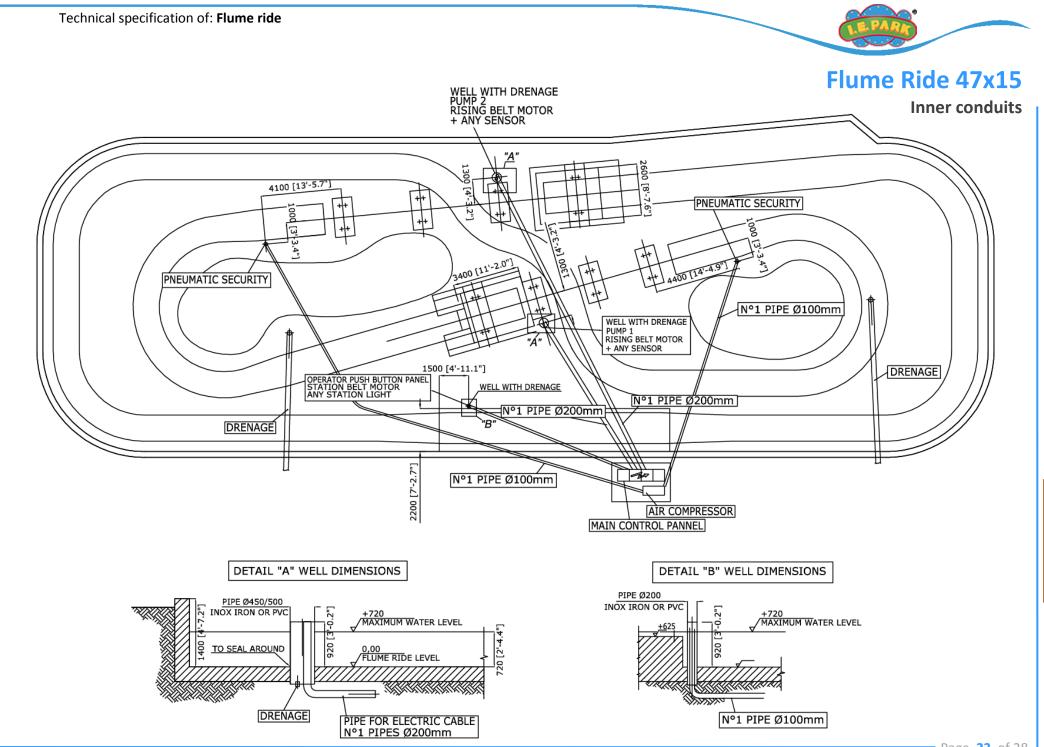
Flume Ride 47x15

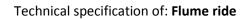
Loads



Technical specification of: Flume ride







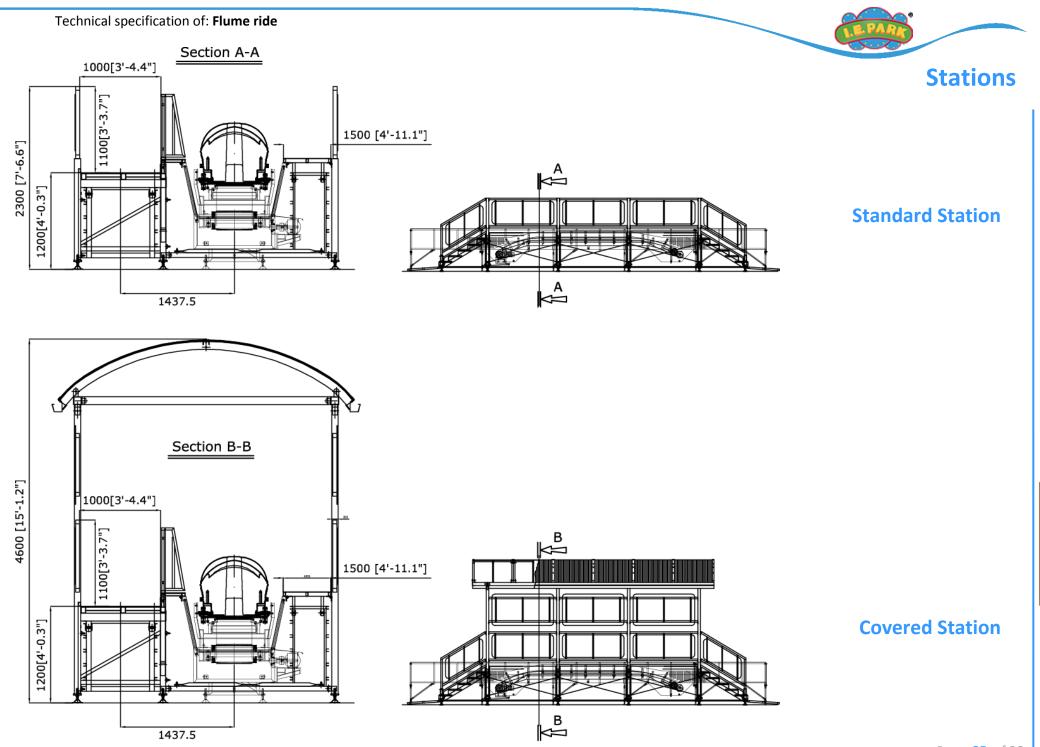


Flume Ride 47x15

Photos









Boat

