



FREESTYLE COURSE STANDARDS MANUAL

AERIALS

MOGULS

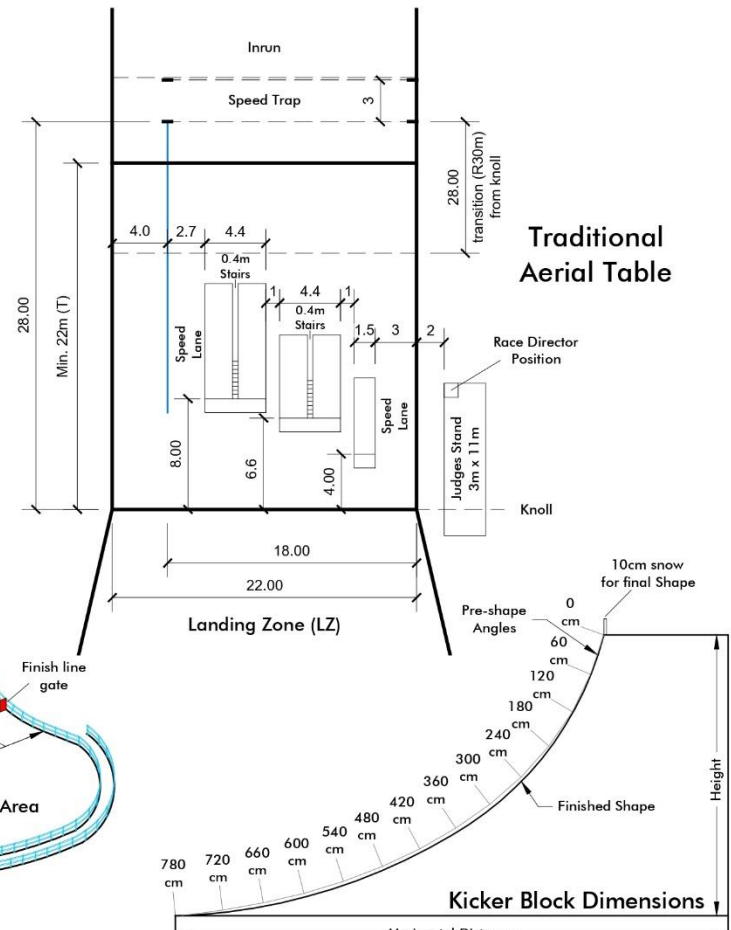
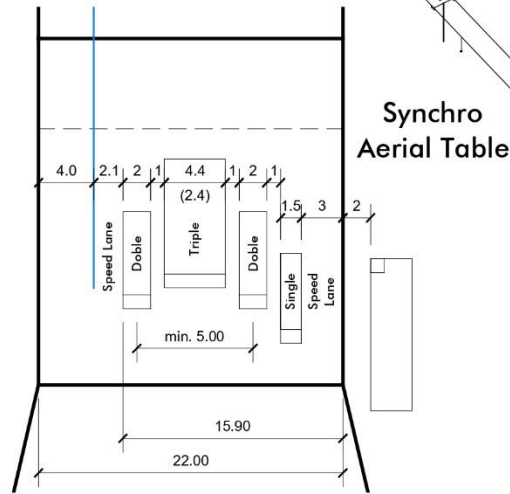
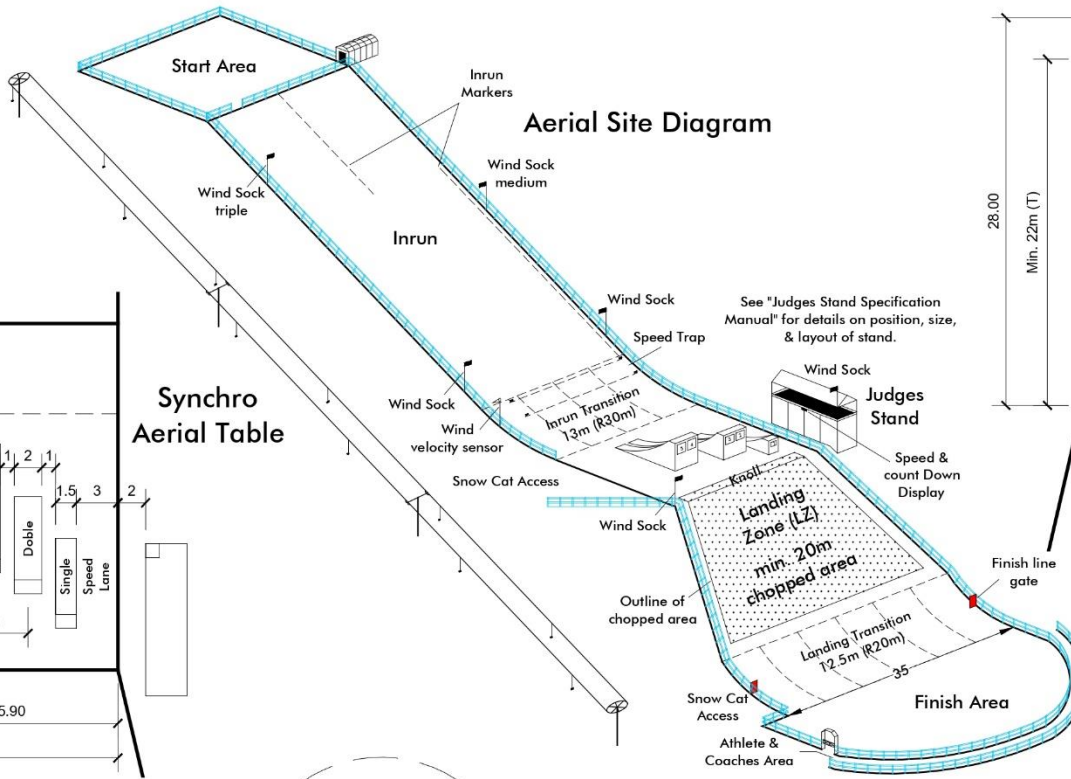
DUAL MOGULS

EDITION August 2023

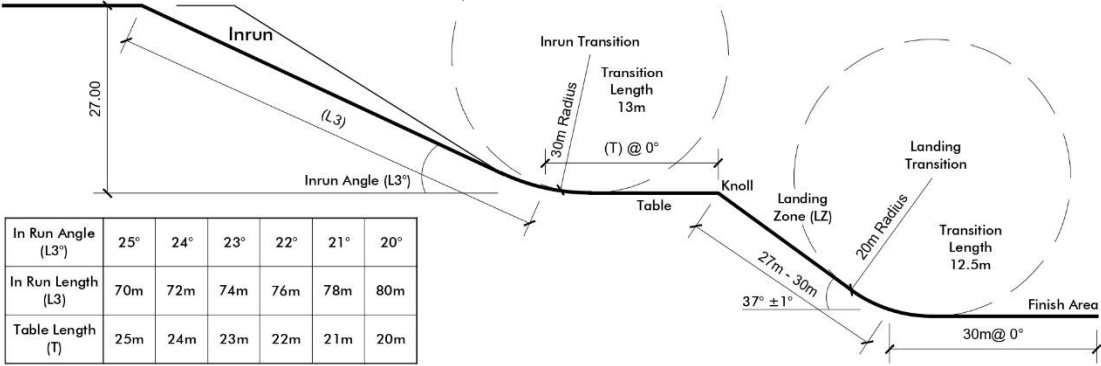
Aerial Site Specifications - ICR 4105.2.1



Version 30.04.2023



Side Views of Aerial site



In Run Angle (L3°)	25°	24°	23°	22°	21°	20°
In Run Length (L3)	70m	72m	74m	76m	78m	80m
Table Length (T)	25m	24m	23m	22m	21m	20m

INRUN BUILD SHOULD ALSO TAKE ACCOUNT OF PREVAILING WIND

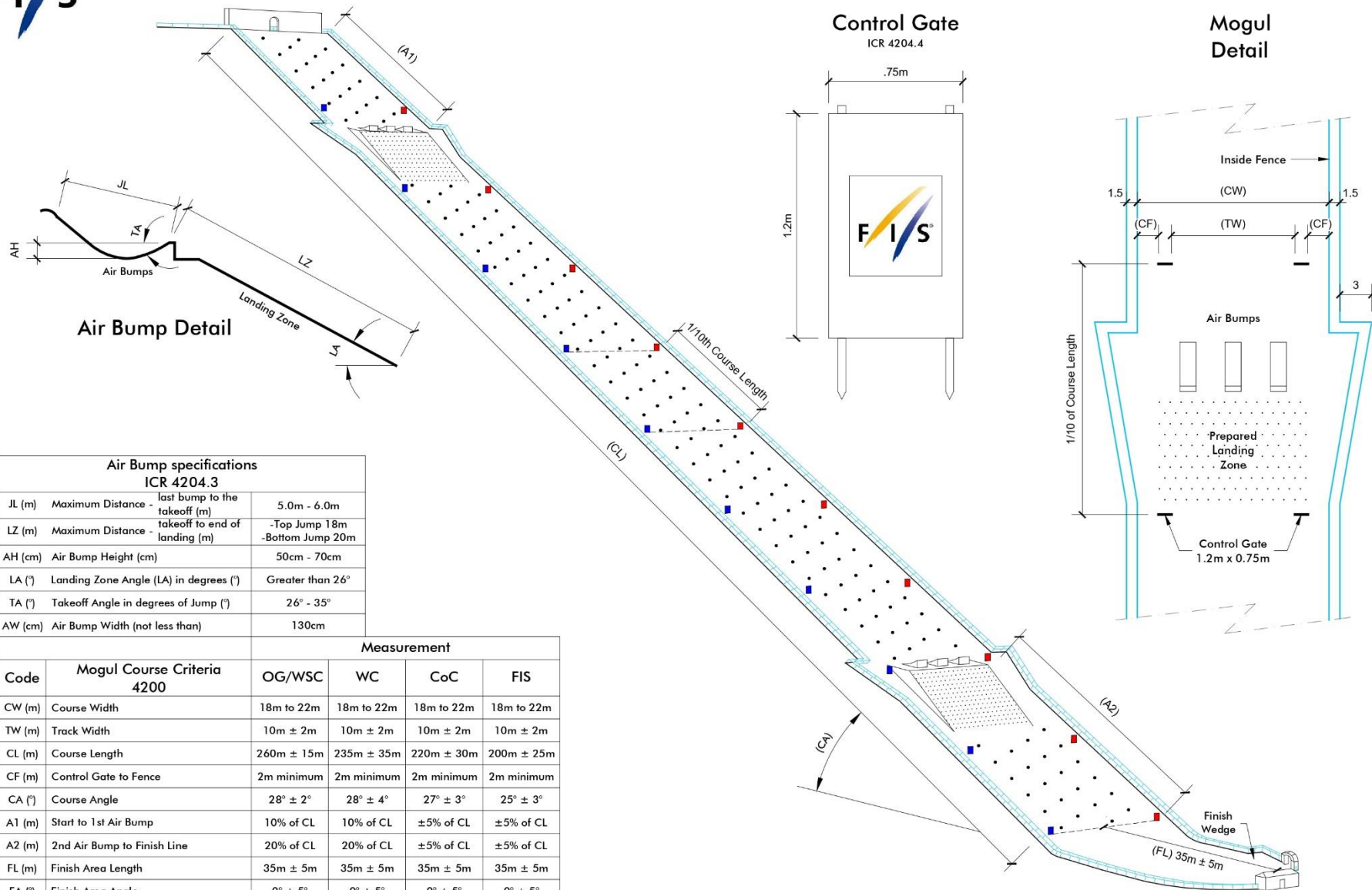
Kicker Block Dimensions

Distance from take-off (cm)	Horizontal Distance		
	Small/Single	Med/Double	Big/Triple
60cm	56.0°	65.0°	71.0°
120cm	47.0°	57.0°	64.0°
180cm	38.0°	49.0°	56.0°
240cm	29.0°	42.0°	48.0°
300cm	20.0°	36.0°	41.0°
360cm	12.0°	32.0°	35.0°
420cm	6.0°	27.0°	30.0°
480cm	3.0°	22.0°	25.0°
540cm	1.0°	16.0°	21.0°
600cm	-	12.0°	17.0°
660cm	-	8.0°	13.0°
720cm	-	-	10.0°
780cm	-	-	8.0°
Distance to Knoll (DK)	4.0m	6.6m	8.0m
Block Height	2.0m	3.5m	4.1m
Horizontal Length	-	6.5m	7.5m
Width	1.5m	Single block 4.4m wide / Single block 4.4m wide	



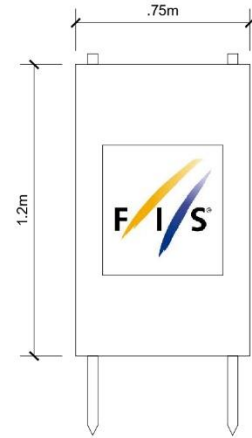
Mogul Course Specifications - ICR 4204

Version 30.04.2023

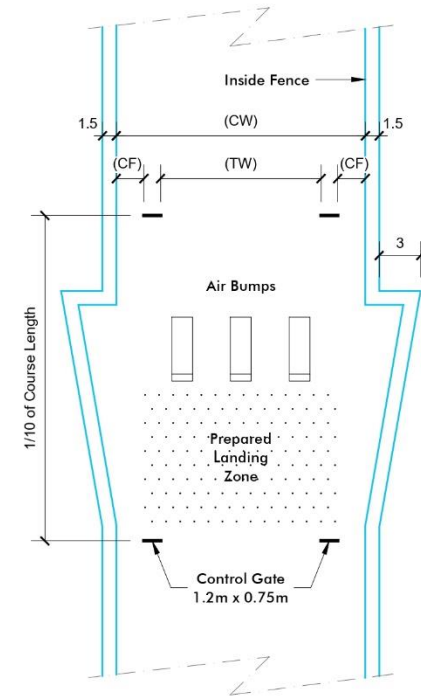


Air Bump Detail

Control Gate
ICR 4204.4



Mogul Detail



Air Bump specifications ICR 4204.3		
JL (m)	Maximum Distance - last bump to the takeoff (m)	5.0m - 6.0m
LZ (m)	Maximum Distance - takeoff to end of landing (m)	-Top Jump 18m -Bottom Jump 20m
AH (cm)	Air Bump Height (cm)	50cm - 70cm
LA (°)	Landing Zone Angle (LA) in degrees (°)	Greater than 26°
TA (°)	Takeoff Angle in degrees of Jump (°)	26° - 35°
AW (cm)	Air Bump Width (not less than)	130cm

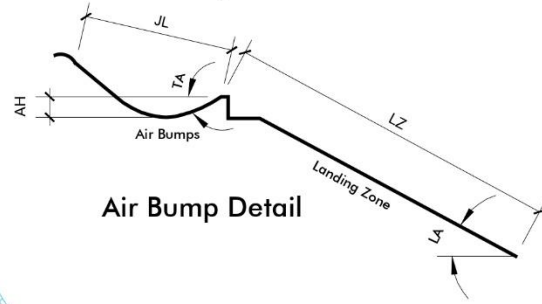
Code	Mogul Course Criteria 4200	Measurement			
		OG/WSC	WC	CoC	FIS
CW (m)	Course Width	18m to 22m	18m to 22m	18m to 22m	18m to 22m
TW (m)	Track Width	10m ± 2m	10m ± 2m	10m ± 2m	10m ± 2m
CL (m)	Course Length	260m ± 15m	235m ± 35m	220m ± 30m	200m ± 25m
CF (m)	Control Gate to Fence	2m minimum	2m minimum	2m minimum	2m minimum
CA (°)	Course Angle	28° ± 2°	28° ± 4°	27° ± 3°	25° ± 3°
A1 (m)	Start to 1st Air Bump	10% of CL	10% of CL	±5% of CL	±5% of CL
A2 (m)	2nd Air Bump to Finish Line	20% of CL	20% of CL	±5% of CL	±5% of CL
FL (m)	Finish Area Length	35m ± 5m	35m ± 5m	35m ± 5m	35m ± 5m
FA (°)	Finish Area Angle	0° ± 5°	0° ± 5°	0° ± 5°	0° ± 5°

No section of the course longer than 20m, shall be less than 20° or greater than 37°



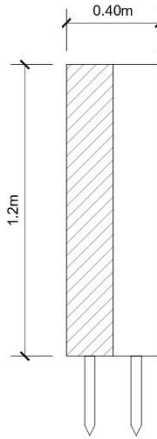
Dual Mogul Course Specifications - ICR 4304

Version 30.04.2023

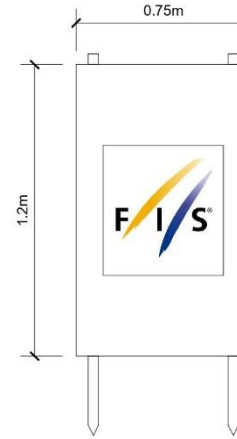


Air Bump Detail

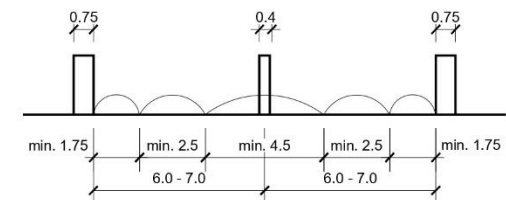
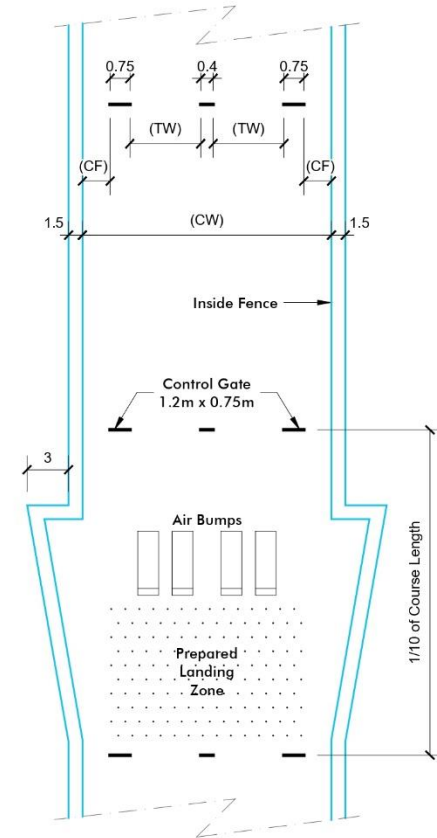
Middle Control Gate
ICR 4204.4



Outside Control Gate
ICR 4204.4



Dual Mogul Detail



Air Bump specifications ICR 4304.3		
JL (m)	Maximum Distance - last bump to the takeoff (m)	4.0m - 5.0m
LZ (m)	Maximum Distance - takeoff to end of landing (m)	-Top Jump 18m -Bottom Jump 20m
AH (cm)	Air Bump Height (cm)	50cm - 70cm
LA (°)	Landing Zone Angle (LA) in degrees (°)	Greater than 26°
TA (°)	Takeoff Angle in degrees of Jump (°)	26° - 35°
AW (cm)	Air Bump Width (not less than)	130cm

Code	Dual Mogul Course Criteria 4300	Measurement			
		OG/WSC	WC	CoC	FIS
CW (m)	Course Width	20m to 24m	20m to 24m	20m to 24m	20m to 24m
TW (m)	Track Width	6.5m ± 0.5m	6.5m ± 0.5m	6.5m ± 0.5m	6.5m ± 0.5m
CL (m)	Course Length	250m ± 15m	220m ± 35m	210m ± 30m	200m ± 50m
CF (m)	Control Gate to Fence	2m minimum	2m minimum	2m minimum	2m minimum
CA (°)	Course Angle	28° ± 2°	28° ± 4°	27° ± 3°	25° ± 3°
A1 (m)	Start to 1st Air Bump	10% of CL	10% of CL	±5% of CL	±5% of CL
A2 (m)	2nd Air Bump to Finish Line	20% of CL	20% of CL	±5% of CL	±5% of CL
FL (m)	Finish Area Length	35m ± 5m	35m ± 5m	35m ± 5m	35m ± 5m
FA (°)	Finish Area Angle	0° ± 5°	0° ± 5°	0° ± 5°	0° ± 5°

No section of the course longer than 20m, shall be less than 20° or greater than 37°

