



IFSC ROUTESETTERS CHECKLIST

IFSC Event

1. Introduction

The current document is an annex of the IFSC Hosting Agreement and includes a list of materials which should be available during the entire routesetting and competition period. The document should be always read in conjunction with the IFSC Rules, IFSC Hosting Agreement and the Wall Requirements.

2. Routesetting preparation

The routesetting schedule will be proposed by IFSC to the Local Organising Committee (LOC). As a general principle, routesetting operations shall start 5 days before the first day of competition. The wall shall be ready before this time and its construction must be finished in all its parts (including painting and/or cleaning). Furthermore, the wall shall be clean of all holds, macros, and volumes (unless previously agreed with IFSC) with mats and/or belaying points installed and secured, to allow climbing and testing of the routes.

The LOC shall transmit to IFSC the wall design according to the Global Timeline of the IFSC Event. IFSC is the only responsible body to advise and validate the final design of the climbing wall.

3. Walls and Holds, Macros and Volumes (HMV)

Discipline	Item Description	Long Descriptions	Quantity
WALLS			
All	Competition Walls	Subject to the competition format and IFSC consultation. Refer to the Wall Requirements .	
All	Warm-up Wall	Subject to the competition format and IFSC consultation. Refer to the Wall Requirements .	
HOLDS, MACROS, AND VOLUMES			
Boulder & Lead	Holds, Macros, and Volumes	Refer to IFSC Holds, Macros, and Volumes Catalogue list. Selection on the quantities, shapes, and materials to be consulted with the IFSC for approval.	Varies according to the competition format
		Number of brands and quantities: an absolute minimum of 4 brands are required. A higher number of brands is strongly recommended to allow versatile and fair routesetting. Per category, the recommended optimal number of brands is 4 brands for holds, 4 brands for macros, and 3 brands for wooden volumes. The optimal quantities are outlined in the table below.	
		Shapes and sizes: a wide range of various shapes and sizes should be proposed. IFSC and Head Routesetter review the list to ensure the selected materials are suitable for competition styles and needs. Refer to guidelines below and consult with IFSC.	

		Timeline: a list of detailed holds, macros, and volumes must be submitted to IFSC. The first list should be submitted 9 months prior to the event. The detailed list should be sent least 3 months before the IFSC Event for IFSC's approval.	
Speed	Official Speed Holds	IFSC Official Speed Holds. Two 15m sets required (2 lanes). Contingency quantity to be secured in case of damage/loss.	2 sets (for 2 lanes) + contingency

Macro-category	Detailed shape	Lead	Boulder
Holds: Climbing holds made of polyester, polyurethane resin (including screw-ons)	Micro holds and footholds (50%)	800	900
	Small to large holds (30%)	480	540
	XL and XXL holds (20%)	320	360
Macros: Laminated climbing structures made of fabric (fiberglass, carbon, coconut etc.) and strengthened by resin (polyurethane, polyester, or other materials)	Small (<50cm): 30%	60	75
	Medium (50-100cm): 50%	100	125
	Large (>100cm): 20%	40	50
Volumes: Wooden volumes made of wood and plywood (including wooden bolt-on holds and screw-ons) Note: Volumes should not have t-nuts	Small (<50cm): 20%	40	50
	Medium (50-100cm): 30%	60	75
	Large (>100cm): 50%	100	125

Please note that these are minimum quantities and do not include the holds for warm-up.

4. Essential Sport-Specific Equipment

Discipline	Item Description	Long Descriptions	Quantity
Lead	Aerial lifts	<p>Quantity: Minimum 2 lifts required for routesetting. Minimum 1 contingency lift to be reserved in case of technical issues or for other uses by LOC (installation of timing system, banners, etc).</p> <p>Type: boom/telescopic lift with baskets (working platform) that can have a long horizontal reach to access various profiles of the Lead wall. Not a scissor lift that can only work in the vertical direction.</p> <p>Dimension: the lift should have a working height (vertical) of up to 20m, and a horizontal reach of 15-17m to access the wall from the front of the wall, given there is a stage. See the example.</p> <p>Basket/working platform: must be spacious to have minimum 2 people and holds, macros, and volumes to carry.</p>	2 (3)
Lead	Aerial lifts	The LOC shall check all possible legal requirements on working on lifts or on heights. The LOC shall communicate them to the IFSC 9 months prior to the IFSC Event.	

Lead	Dynamic Ropes	Length: 40-50m. Diameter (preferred): 9.2-9.4m. Dynamic ropes for fluidity for high-level performance and catching the athletes softly when falling.	Varies (according to the number of athletes)
Lead	Static Ropes	Length 50m. For routesetting or when the lift is not available.	2
Lead	Bolt hangers	Installed on the wall. Hangers may be provided by the wall manufacturer.	100
Lead	Bolt hanger covers	Non-textured holds that cover the bolt hangers.	40
Lead	Accessory cord	For routesetting. Diameter 3mm and length 50m.	1
All	Ascender / descender	To carry large objects and volumes on the wall. Important to use semiautomatic blocant (or pulley with integrated blocant) to hold the volumes in place.	2
Lead	Karabiners	Karabiners Bent Gate.	30
Lead		Karabiners Self Locking.	15
Lead	Quickdraw Quick Links	For the wall and routesetting.	50
Lead	Quickdraw slings	Various lengths. Short (12cm), medium (17cm), long (27cm).	80
Lead	Slings	Various lengths: 60cm, 80cm.	30
Lead	Manual belay devices	For belaying athletes.	15
Lead	Assist braking belay devices	For routesetting.	5
Boulder	Curtains	Curtain for Boulder wall as in the IFSC Wall Requirements. Consult with IFSC on the size and material and installation methodology.	1
Boulder	Ladder	Minimum 6 ladders, with at least 2 of each size (2.0 m, 3.2m, 4 m).	6-8
Boulder	Tapes	Various colours for marking starting positions and zone(s). Colours and materials to be discussed with IFSC to ensure visual matching and durability to stay on the wall against rain/humidity.	Min. 5 colours x 5 rolls
Speed	Bolt hangers	To attach auto belay lanyard at the bottom of the wall.	2
Speed	Aerial lift	Minimum 1 lift required, with reach span 2-4 meters. For routesetting and timing systems installation.	1
All	Bolts	In case if the walls and the holds have t-nuts and bolt holes. However less used. In case needed, M10 x 40mm - 200mm.	According to need
All	Screws	All screws must have countersunk head, galvanized steel, and certified. All screws to have a Torx head of the same size (Torx TX 20).	

		Quantities based on single discipline World Cup. For more disciplines, below quantities must be adjusted.	
All		4.5mm x 30mm (full thread). TX 20.	500
All		4.5mm x 50mm (full thread). TX 20.	1000
All		5.0mm x 80mm. TX 20 (or TX 25).	200
All		5.0mm x 120mm. TX 20 (or TX 25).	100
All	Drill bits	According to Torx TX 20.	According to need
All	Hex wrench and bits	8mm. Ideally 60mm long.	1 wrench, bits according to need
All	Helmet	For routesetting.	10
All	Chalks	For routesetting.	Varies
All	Chalk bags/buckets	For routesetting.	8
All	Long brushes	For cleaning holds. Long and medium length with telescopic stick.	10
All	Short brushes	For cleaning holds.	10 to 20
Boulder	Swipes	Swipes to clean the mats from chalk.	5
Boulder	Carpets/towels	To protect the mats in case of rain (OUTDOOR venue).	10
dAll	Sub-mat/crash pad	For additional safety when landing. Smaller mats are used at the bottom of the Lead or Speed wall, in case athletes fall too early part of the route.	3

5. Other items

Discipline	Item Description	Long Descriptions	Quantity
All	Hold baskets/boxes	To store holds. Plastic boxes with 100L volumes.	15-20
All	Hold baskets/boxes	To store holds. Plastic boxes with 100L volumes.	15-20
All	Trolleys to transport holds	Easily portable with wheels and securely store the selected holds for competition rounds.	5



All	Holds pallets	Stocking holds at the equipment storage.	10
All	Holds pallet racks	Stocking holds at the equipment storage.	15-20
All	Blower/Dryer/Fans	For drying holds or equipment if wet.	3
All	Pallet carrier	To lift and transport holds of varying sizes or wall panels.	3