

INSTALLATION GUIDE 3D MOTION PLATE

For Swing Catalyst Studio Installations



CONTENTS

Introduction.....	4
Part 1: Studio Overview	
Studio Components.....	6
Dimensions - indoor studio.....	7
Dimensions - garage bay.....	8
Cameras.....	9
Part 2: Cabling	
Video setup.....	10
3D Motion Plate setup.....	11
TV & feedback screen setup.....	12
Part 3: Flooring	
Building floor structure.....	13
Building podium structure.....	18
Part 4: Specifications	
Mounting rail specs.....	20
3D Motion Plate specs.....	21
Part 5: Studio Lights	
LED lighting setup.....	22
Support.....	23

Installation guide 3D Motion Plate 2016

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INTRODUCTION

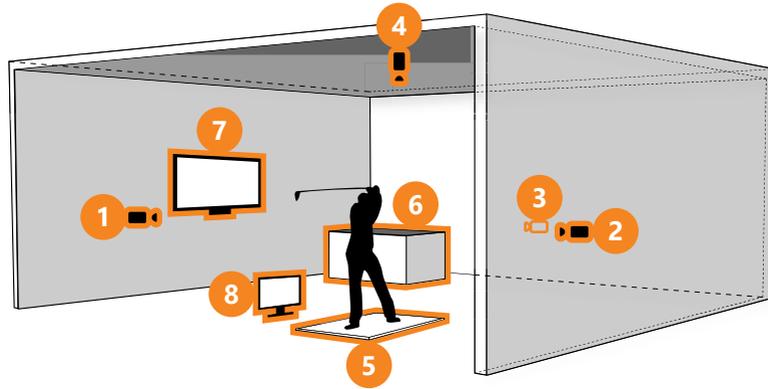
The Swing Catalyst team has over the years gained extensive experience from studio installations all around the world. This knowledge is now passed on to you as a valued Swing Catalyst customer.

This guide offers recommendations regarding space requirements, positioning of lighting, cameras and cabling, and some other thoughts that you should consider when setting up your Swing Catalyst Studio.

Detailed information on a specific topic may be found at:
www.swingcatalyst.com/help

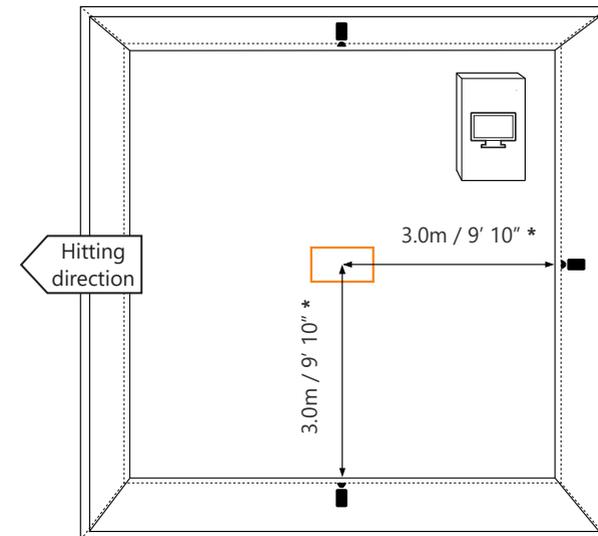
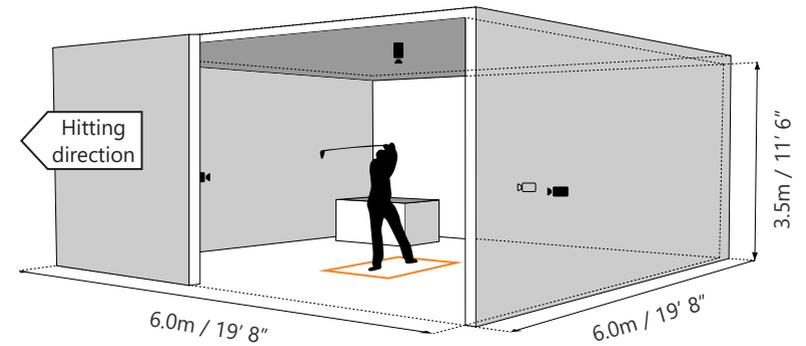


STUDIO COMPONENTS



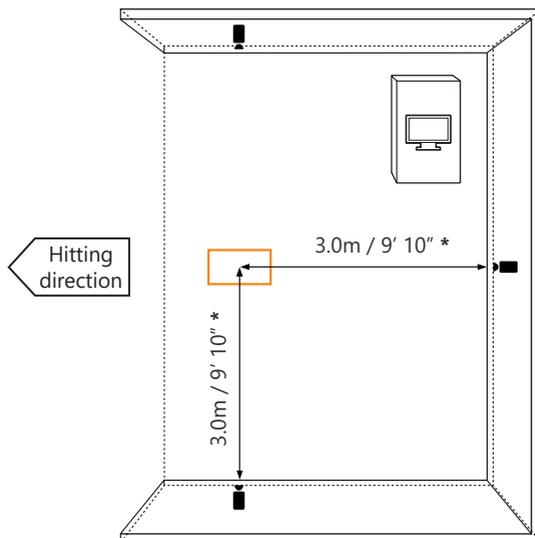
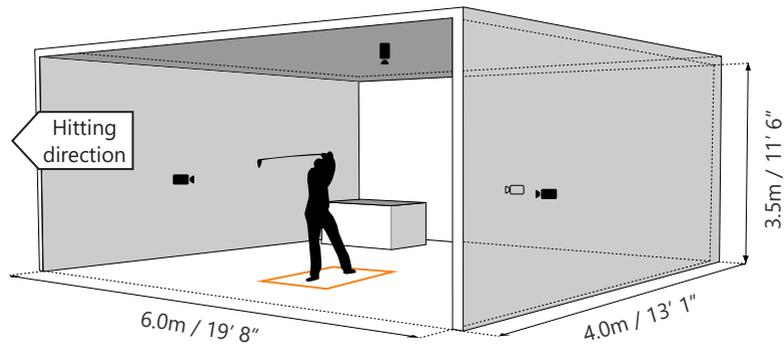
- 1 Face on camera left
- 2 Face on camera right
- 3 Down the line camera
- 4 Overhead camera
- 5 3D Motion Plate / Balance Plate
- 6 PC table
- 7 Optional wall mounted flat screen
- 8 Optional student screen

DIMENSIONS - INDOOR STUDIO



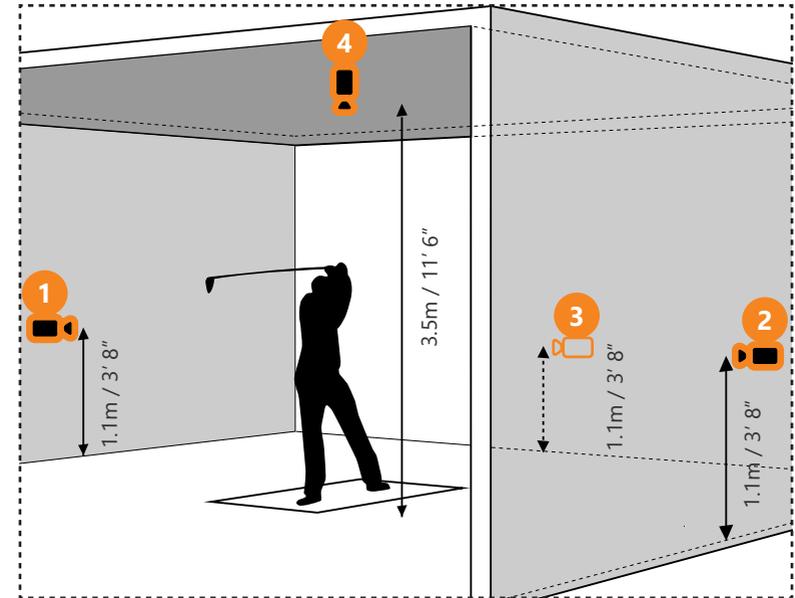
* These are the recommended distances. Please note that more space is required if you consider using a radar based launch monitor. If you have less space please contact us for other camera options.

DIMENSIONS - GARAGE BAY



* These are the recommended distances. Please note that more space is required if you consider using a radar based launch monitor. If you have less space please contact us for other camera options.

CAMERAS



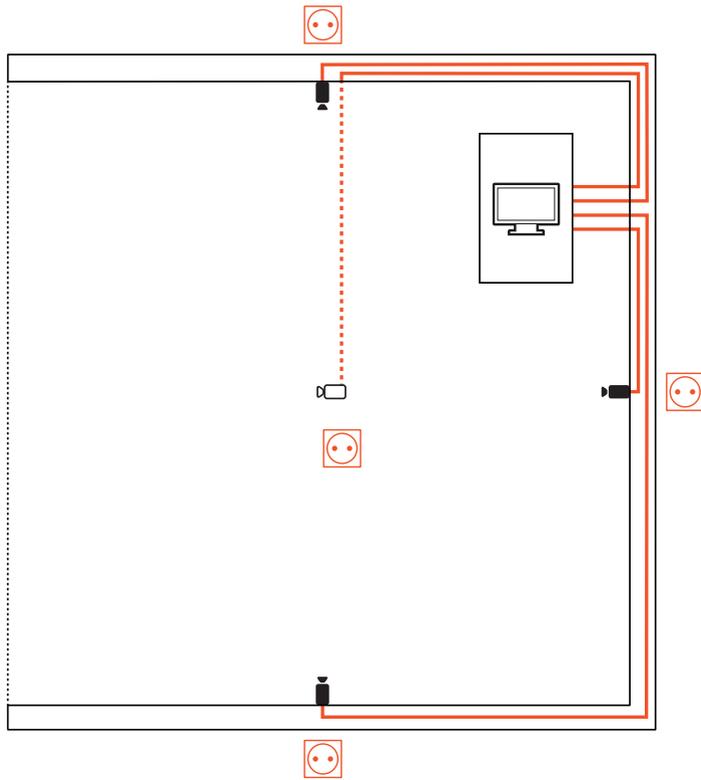
Camera height measured from floor to lens:

- 1 Face on camera left
- 2 Face on camera right
- 3 Down the line camera

Recommended minimum height from floor to lens:

- 4 Overhead camera

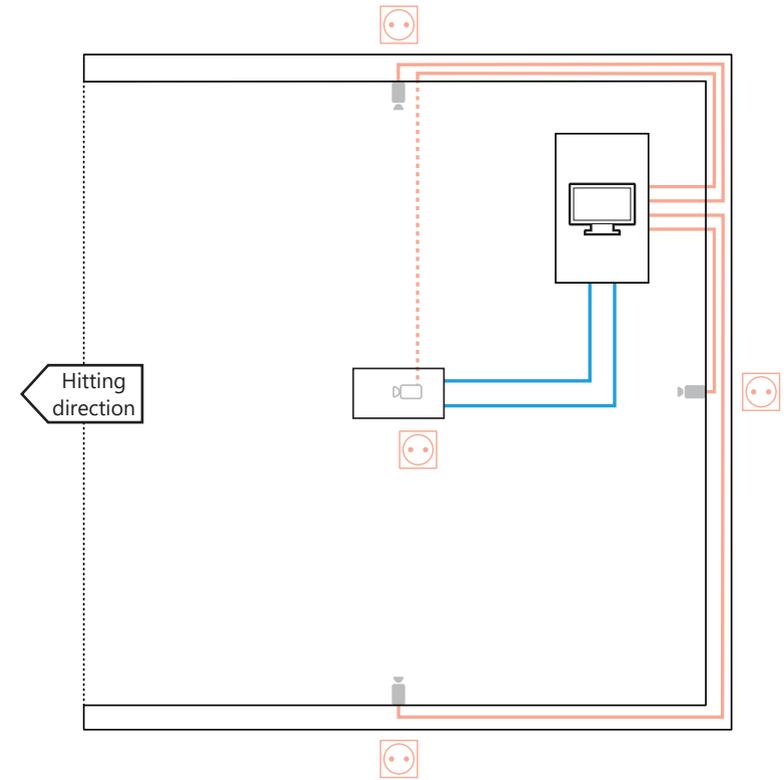
VIDEO SETUP



Video cables (depending on camera type):

-   Coaxial for CCTV
-   Ethernet for GigE Vision
-   USB for USB cameras
-   Power outlet, 110-220V AC

3D MOTION PLATE SETUP



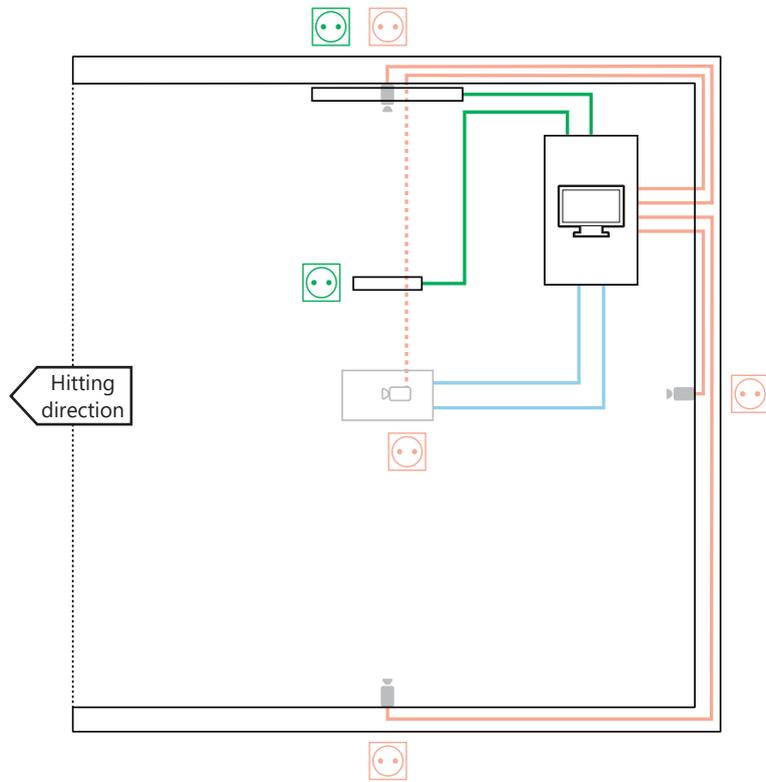
Sensor Plate cable:

-   USB for 3D Motion Plate
-   USB for Balance Plate



All electronics connected to the 3D Motion Plate must have ground. The power grid should have adequate grounding.

TV & FEEDBACK SCREEN SETUP



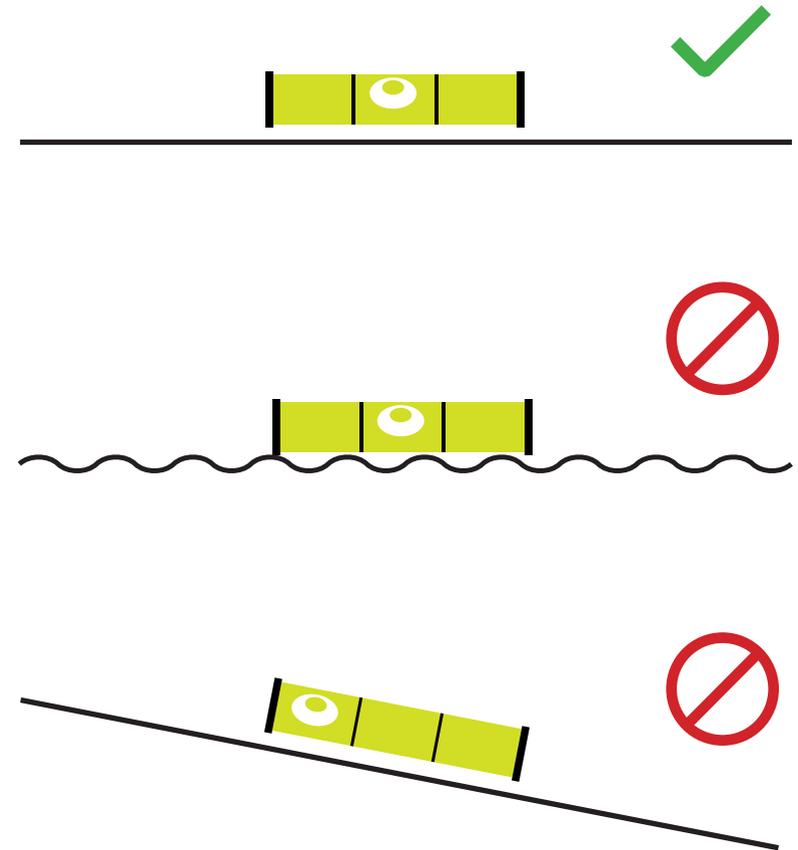
Screen cables:

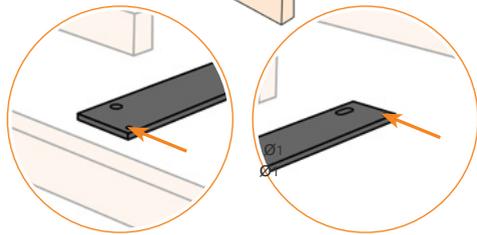
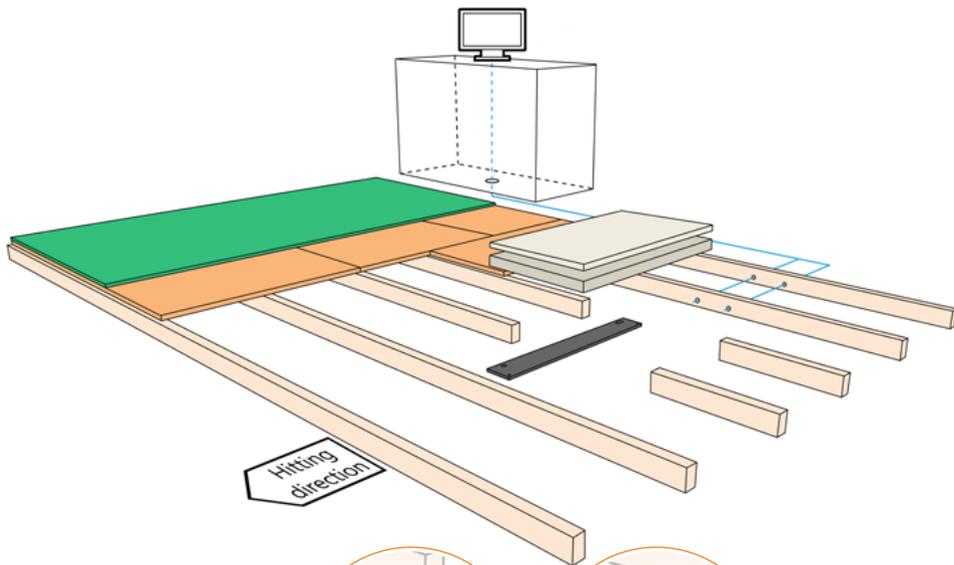
-   HDMI for flatscreen TV and feedback screen
-   Power outlet, 110-220V AC

Note: The setup for flatscreen TV and feedback screen is optional.

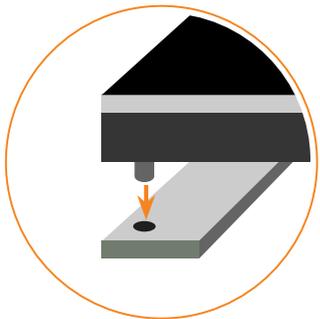
BUILDING FLOOR STRUCTURE

Place the 3D Motion Plate on a flat and level floor to ensure accurate data readings.



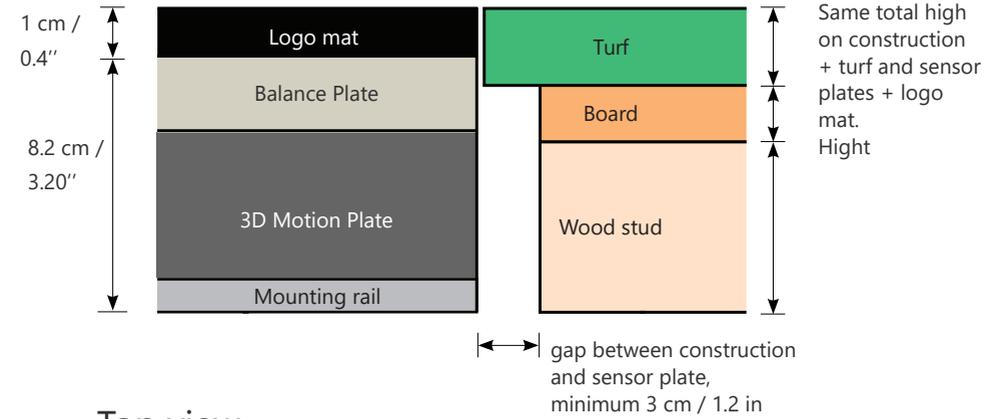


∅: Mounting holes. Use screws to fix mounting rail to the floor.

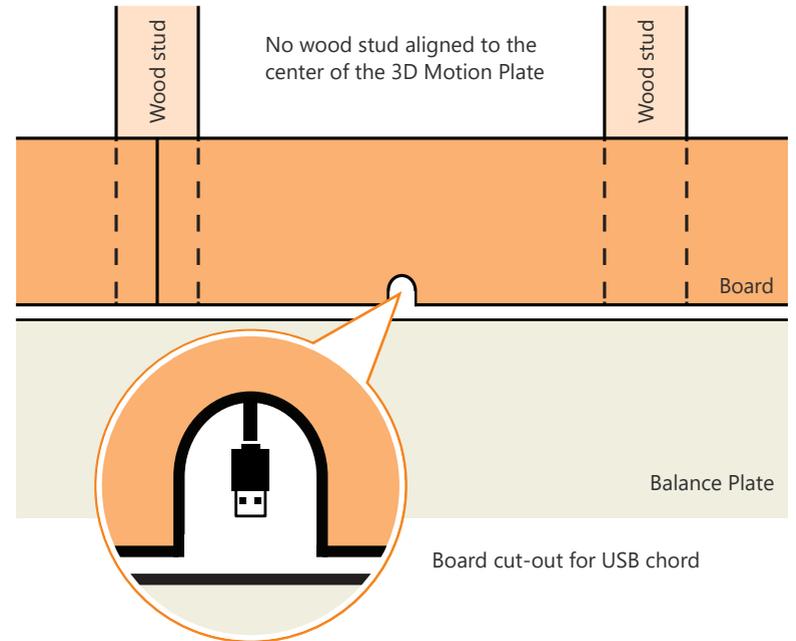


Insert two of the feet into the mounting rail. The adjustable foot should not be one of them.

Side view

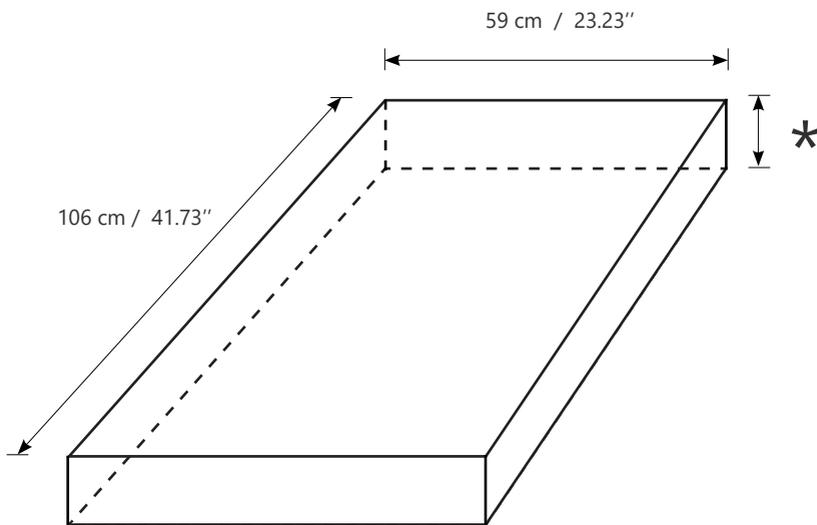


Top view



Dimensions of the hole

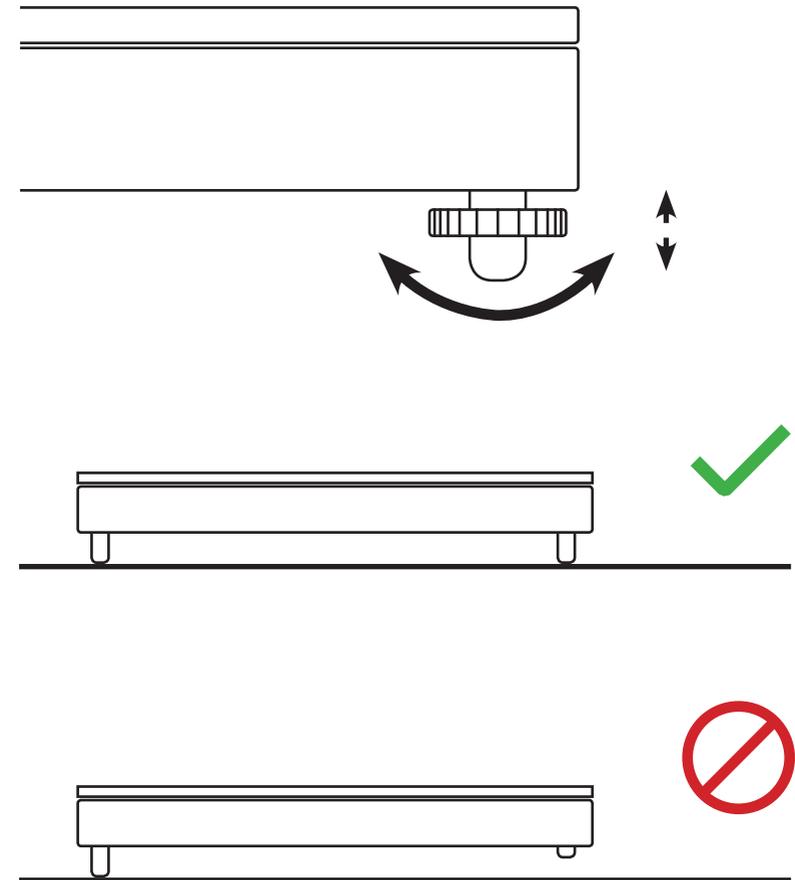
These dimensions are for the floor construction. The turf should not have a 3 cm / 1.2 inch gap to the 3D Motion Plate. The turf should be close to, but not in contact with the 3D Motion Plate.



* The height depends on the height of the turf you have selected. The total height of turf and floor construction should be approximately 9.2 cm / 3.62 inches. Please measure the total height of the 3D Motion Plate and logo mat beforehand.

Feet on the floor

Important! To ensure accurate data readings the 3D Motion Plate must be level and have all 4 feet in contact with the floor. Only one foot is height adjustable.

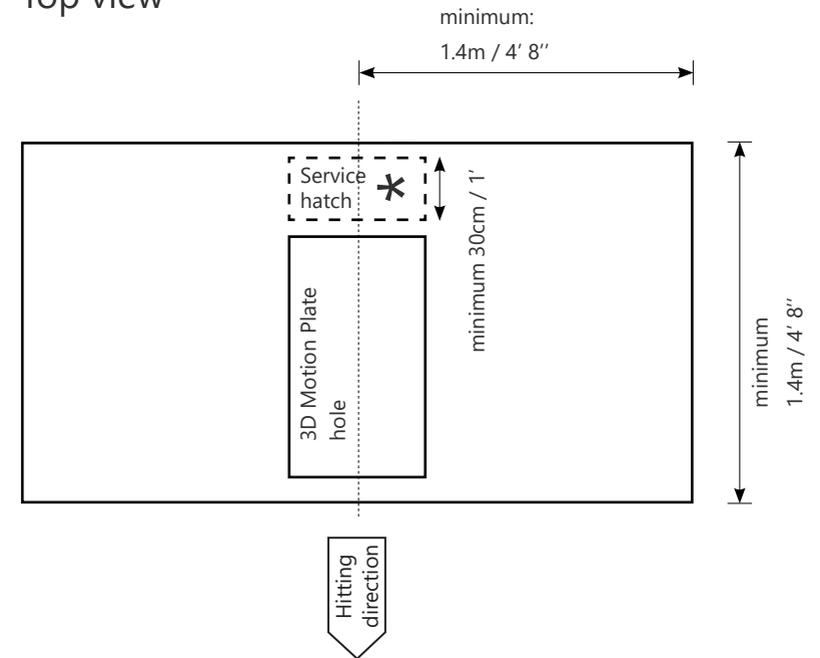


BUILDING PODIUM STRUCTURE

Follow construction details from the previous pages. Choose desired moldings for a good finish.



Top view

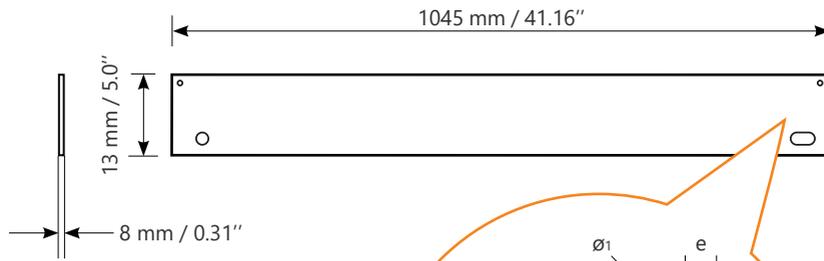


Side view

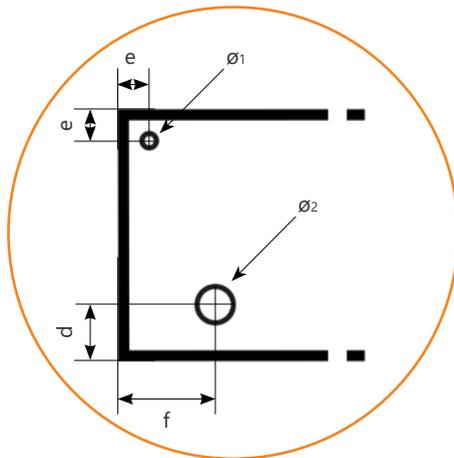
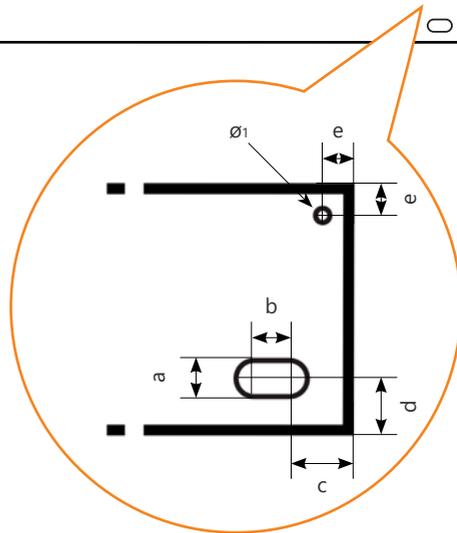


- * Leave room underneath the podium floorboard behind the 3D Motion Plate for electronic components. Create a service hatch to get access to this room.

MOUNTING RAIL SPECS



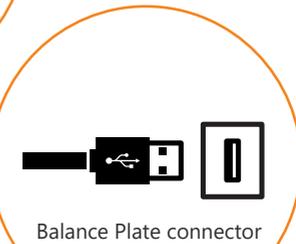
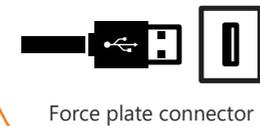
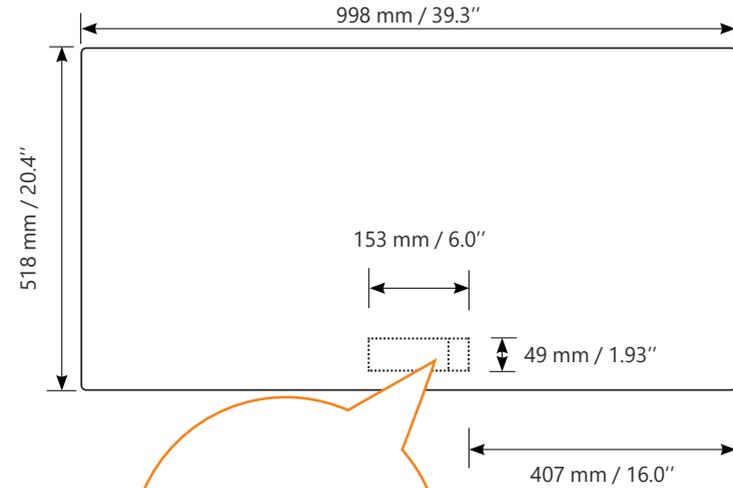
- a: 20 mm / 0.78"
- b: 19 mm / 0.75"
- c: 32 mm / 1.25"
- d: 26 mm / 1.02"
- e: 13 mm / 0.5"
- ø1: 7,0 mm / 0.276"



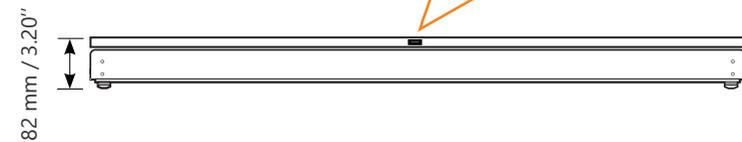
- f: 48 mm / 1.90"
- ø2: 20,6 mm / 0.81"

3D MOTION PLATE SPECS

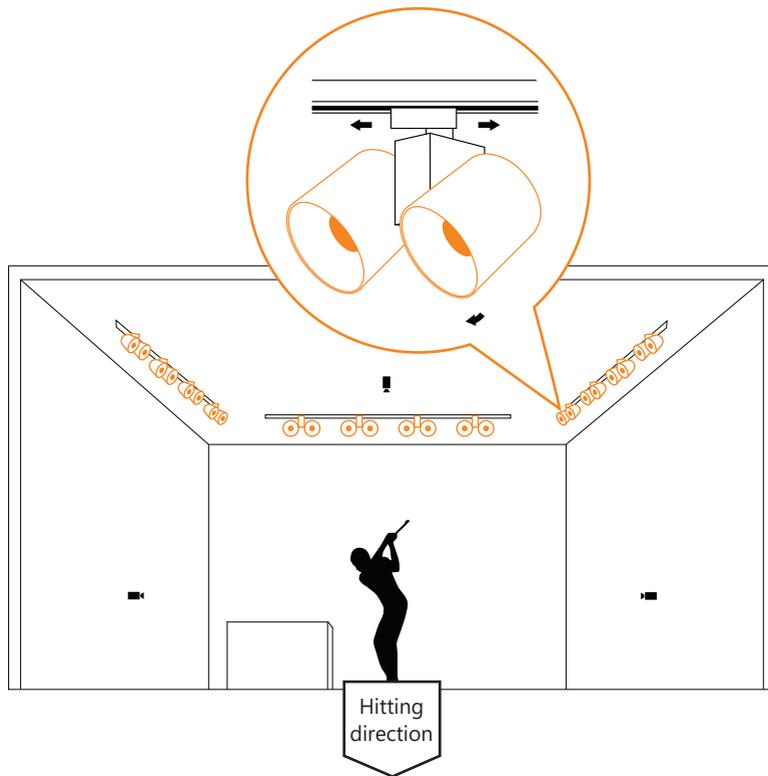
Bottom view



Side view



LED LIGHTING SETUP



Recommended lighting setup:

Lumen: 30,000 lumen

Beam angle: 45 degrees

Number of spot lights: 15-30

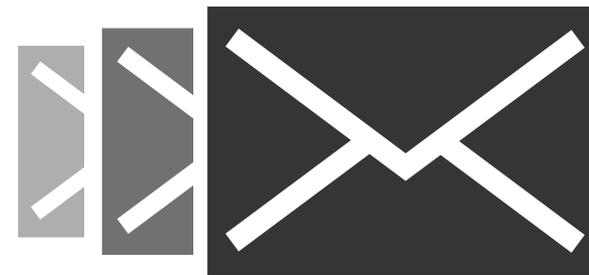
Recommended lux measurements:

Hip-height horizontally: 1300 lux

Floor below golfer: 2300 lux

Walls: 500 lux

SUPPORT



If you have any questions, please contact support:

support@swingcatalyst.com

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