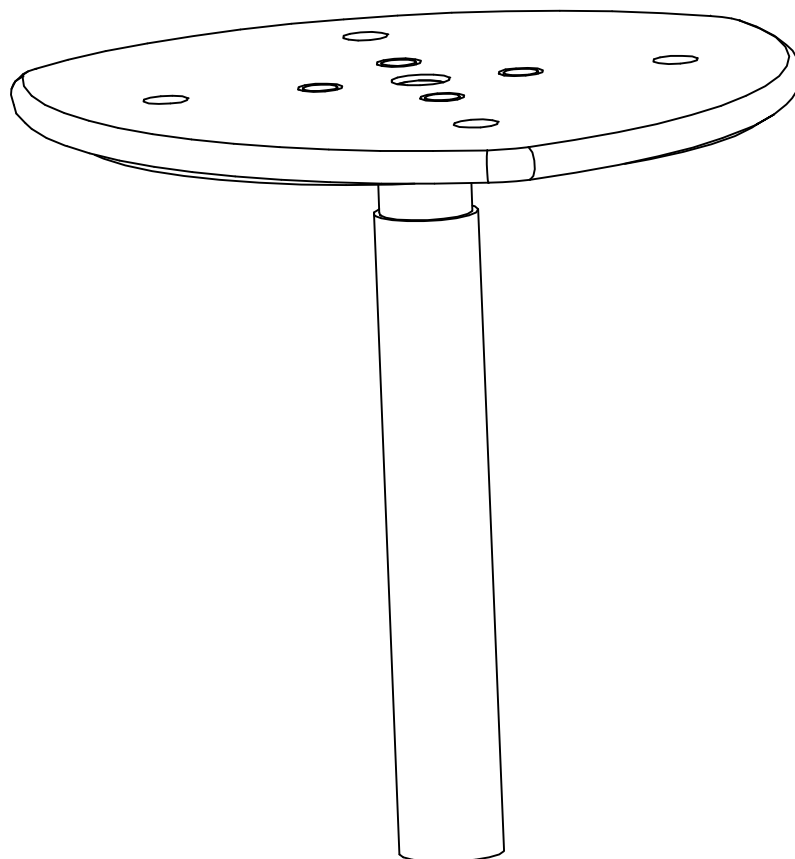


INSTALLATION INSTRUCTIONS

MINI SPINNER

CAR-MIN



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1 SPECIFICATIONS

REFERENCE		NDA21
OVERALL HEIGHT (H)	m	0.45
OVERALL LENGTH (L)	m	0.45
OVERALL WIDTH (W)	m	0.46
OVERALL WEIGHT	kg	13.00
HEAVIEST PART	kg	5.00
LARGEST PART L x W x H	m	0.94 x 0.15 x 0.15
CONCRETE - RUBBER	m ³	0.11
CONCRETE - LOOSE FILL	m ³	0.11
MINIMUM SPACE Ø x H	m	Ø3490 x 2.45
FALLING SPACE AREA	m ²	9.57
IMPACT AREA (WET POUR)	m ²	10.25
LOOSE FILL AREA (SAND/BARK)	m ²	10.5
MANHOURS	hr	2
MANPOWER		1
CONSTRUCTIONAL SPACE	m	4 X 4
MAXIMUM FREE FALL HEIGHT	m	0.45

Concrete mix is recommended at:
 1 part cement;
 2 parts sand;
 4 parts aggregate;
 by volume with 20mm aggregate
 (20 N/mm² min compressive strength)

SMP Playgrounds Ltd. recommends an effective *Impact Absorbing Surface tested to EN1177 & BS7188* beneath this range of play equipment. Refer to manufacturers instructions for details of installation. The surface should have a Critical Fall Height greater than the Maximum Freefall Height of the equipment. Subject to a risk assessment & for certain Fall Heights a grass surface may be used.

Constructional Space (shown in the above table) is the approximate working area required to layout and assemble the equipment.

For the safe operation of this equipment it must be installed on horizontal ground with the required minimum space.

If a loose fill surface is selected for this item it will require a very high level of maintenance to ensure a sufficient thickness is in place at all times to provide 'critical fall height' protection.

The concrete foundations indicated are for average ground. Care should be taken concerning abnormal conditions.

2 PREPARATION

All equipment assembly and fixings must conform to EN1176.

Before commencing the installation the surrounding area must be sufficiently fenced and signs erected to warn the public of the risk of injury.

Tools / ancillary equipment: Plumblines, 5m tape measure, Spirit level, Torque wrench.

Minimum Personal Protective Equipment:- Hard hat, Gloves, Armoured boots, Goggles.

2.1 ESTABLISH ORIENTATION

- i) See Specifications for equipments 'Minimum space'.
- ii) Measure out the site to ensure the space required fits into the allotted area, it is horizontal and free from trip points or other obstructions.
- iii) Ensure the equipment is to be provided with an effective Impact Absorbing Surface which has a tested critical fall height rating greater than the maximum freefall height of the equipment.

2.2 MARK OUT HOLES

Consult SMP layout drawing for structure position on site.

See FIG.2 for concrete foundation spacings.

NOTE: This is a minimum guide only. Hole excavation should be done progressively as the steelwork is erected.

2.3 ESTABLISH DATUM LEVEL

- i) If a rubber tiled Impact Absorbing surface is to be laid, see separate instructions (base may incorporate up to 2% falls etc.).
- ii) If equipment is to sit in loose fill or wet pour rubber surfaces allowances will need to be made for its recommended thickness. With certain loose fill materials, a greater thickness than 300mm may be required. This will need to be determined by allowing 100mm for dispersal in addition to the thickness required for the freefall height of the unit. For installation with a loose-fill type surface all legs on the structure have be marked with a 'Basic Level Mark' to indicate the recommended 'Finished Surface Level' of the surface.

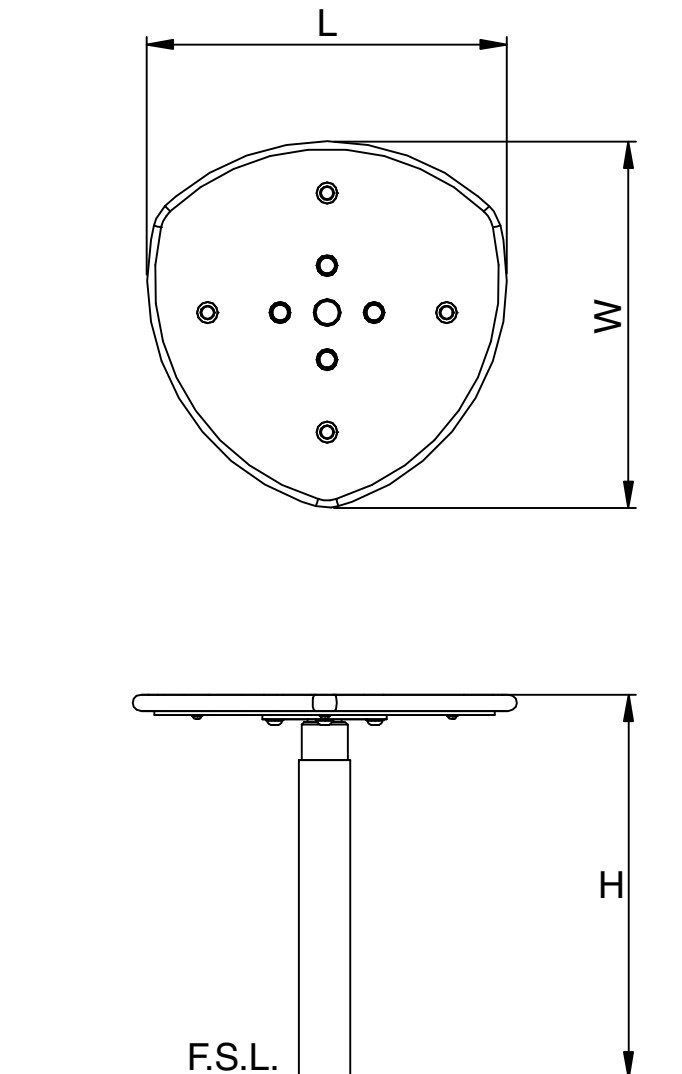


FIG.1

300mm THICKNESS OF LOOSEFILL SURFACE WILL NEED TO BE CONFIRMED IS SUFFICIENT DEPENDING ON THE SPECIFIC LOOSEFILL MATERIAL SELECTED.

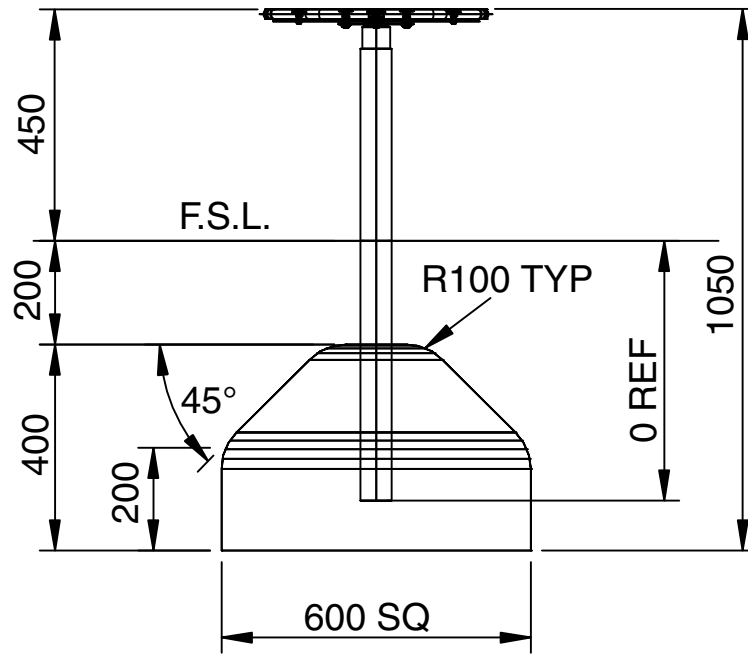


FIG.2

ALL DIMENSIONS IN MM

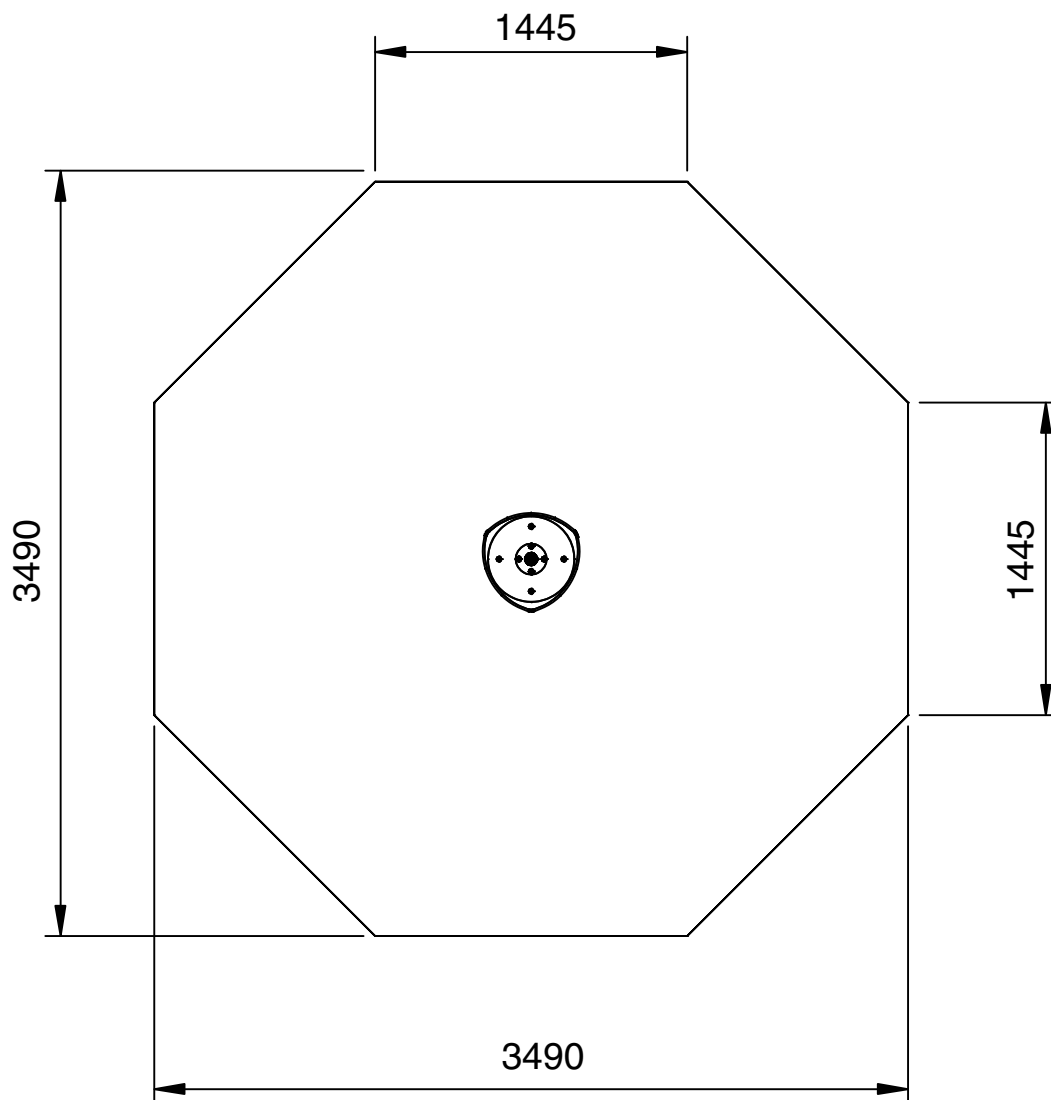


FIG.3 WET POUR AREA

ALL DIMENSIONS IN MM

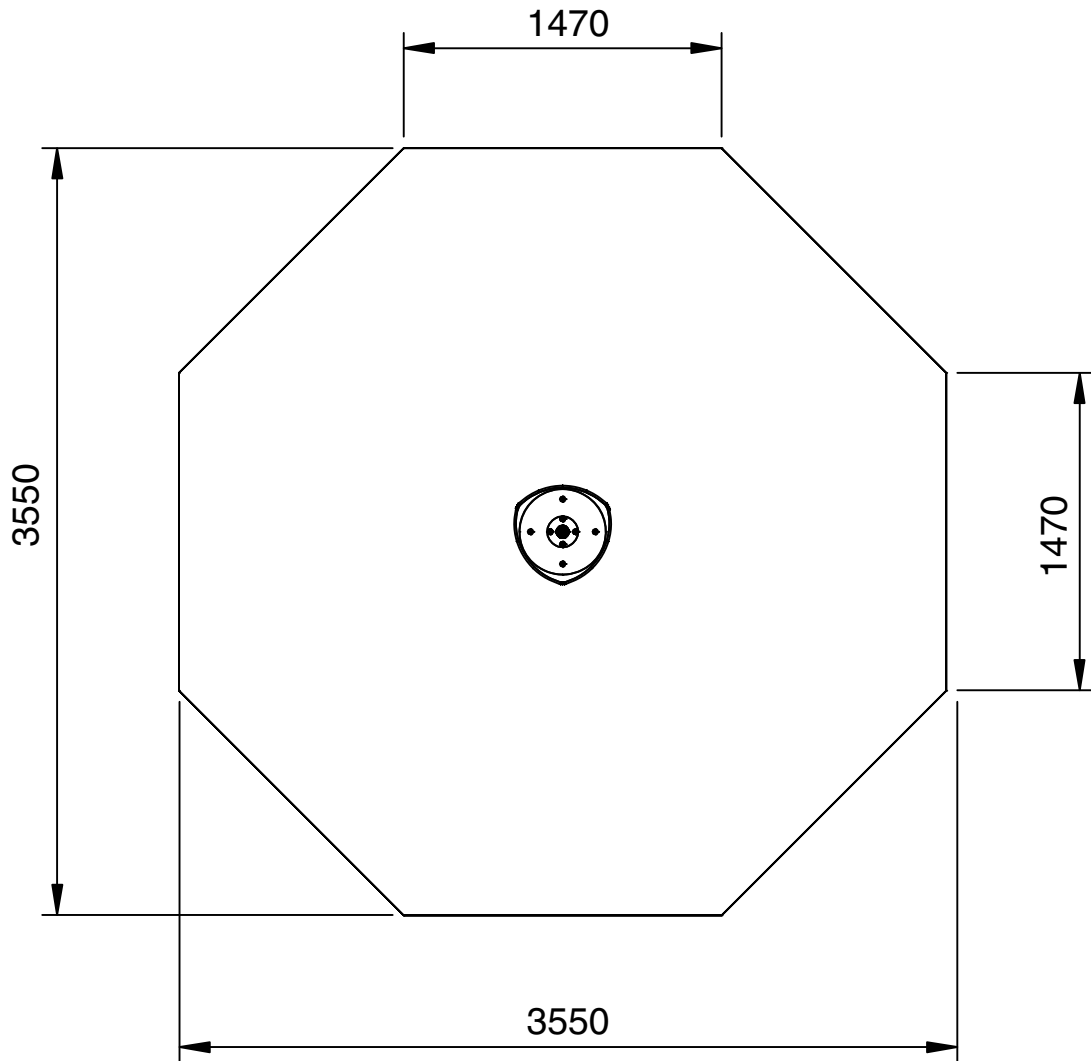


FIG.4 LOOSE FILL AREA

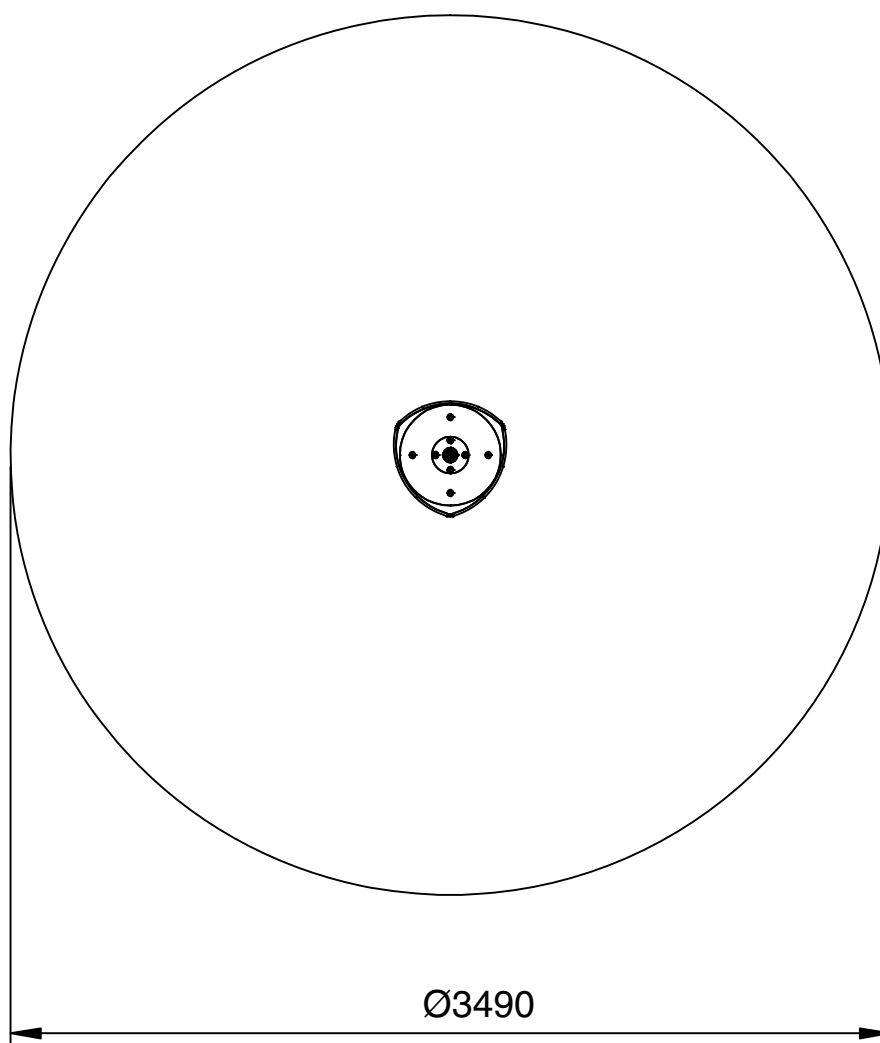


FIG.5 FALLING SPACE AREA

3 PARTS LIST

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	71000701	EKO GRIP SEAT	1	2.50
2	55990010	SPINNING GROUND ASSEMBLY	1	5.00
3	86810012	MOUNTING PLATE	1	5.00
4	10121025	RESISTORX HEAD M10 x 25	4	0.024
5	10120616	RESISTORX HEAD M6 x 16	4	0.007
6	10291000	WASHER-PLAIN M10	4	0.002
7	10290600	WASHER PLAIN M6	4	0.001
8	10301200	SHOCKPROOF WASHER M12	4	0.002
9	10931000	TEE NUT M10	4	0.020
10	10930600	TEE NUT M6	4	0.006
11	19055020	BLACK PLASTIC PLUG	1	0.004
12	10121000	M10 TORX TOOL	1	-
13	10120600	M6 TORX TOOL	1	-

4 INSTALLATION & ASSEMBLY PROCEDURES

4.1 SAFE WORKING PRACTICE:

A full risk assessment should be carried out prior to commencing the installation, which will be specific to the site selected. The major risks associated with purely the assembly of this product are highlighted below, which can form part of this overall assessment.

4.2 RISKS:

- i) Large parts which could be difficult to lift or handle.
- ii) Structure unstable until concrete footings have fully cured.

4.3 CONTROL MEASURES:

- i) All staff working on installation to wear suitable PPE including Toe Protective Shoes, Hard hat and Gloves.
- ii) Any staff or other persons on site, not working directly on the installation, to be kept away from the installation.
- iii) Ensure adequate personal and equipment are on site to handle and support the structure whilst it is being assembled.

Pre - Installation Inspection:-

- i) Inspect all parts for damage (that may have occurred during transportation & storage). Finish Coatings, if found to be damaged these should be made good before erection (Refer to maintenance instructions). Any damaged or missing parts must be replaced.
- ii) Warn the public of the risk of injury, by placing signs and fencing the surrounding area, before commencing installation.

4.4 INSTALLATION

- 1) Place Spinning Ground Assembly (item 2) into appropriate foundations and shim as required to ensure the Spinning Ground Assembly is plumb and square with the welded F.S.L. mark at the correct level. See FIG.2.

NOTE: Check that the completed structure has been positioned in the correct place, that it is plumb and square. Also ensure that the structure is propped safely so that it may be left for the concrete foundations to cure.

- 2) Fill the holes with concrete to the required level, taking into account any Impact Absorbing Surfacing requirements. Ensure that a full volume of concrete is used. The top of the concrete should gradually (1:100) slope down & outwards locally from the equipment upstand to the required level to form a watershed.
- 3) Keep installation off limits to the public until the concrete has completely cured. (Recommended initial curing time is 48 hours).

- 4) Attach Eko Grip Seat (item 1) to Mounting Plate (item 3) using 4 off M6 Tee Nuts (item 10) with 4 off M6 x 16 Resistorx Bolts (item 5) and M6 Washers (item 7). See FIG.6.
- 5) Assemble the Eko Grip Seat with attached Mounting Plate to the Spinning Ground Assembly (item 2) using 4 off M10 Tee Nuts (item 9) with M12 Shockproof Washers (item 8) and 4 off M10 x 25 Resistorx Bolts (item 4) with M10 Washers (item 6). See FIG.7.

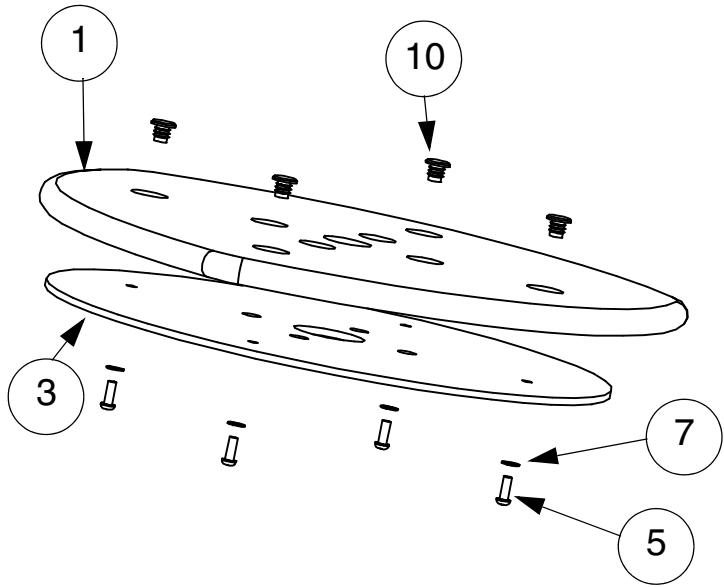


FIG.6

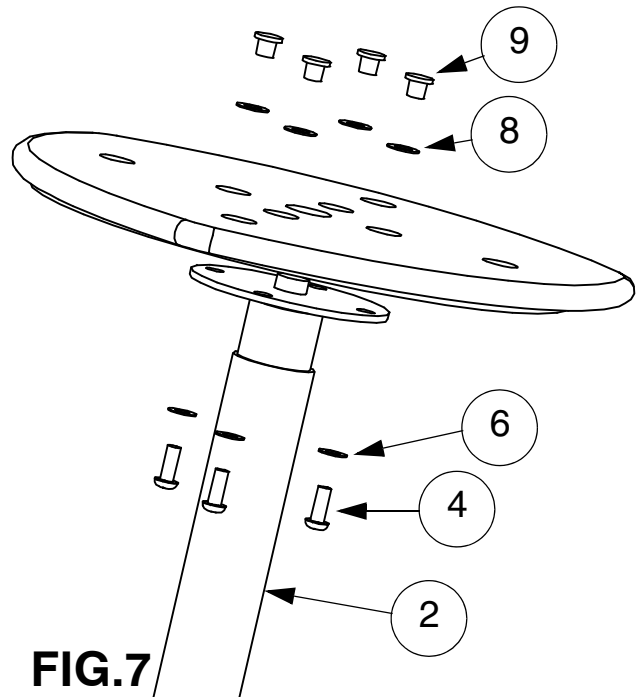


FIG.7

- 6) Insert and knock home with a soft hammer 1 off Black Plastic Plug (item 11) into the centre hole of the Eko Grip Seat. See FIG.8.

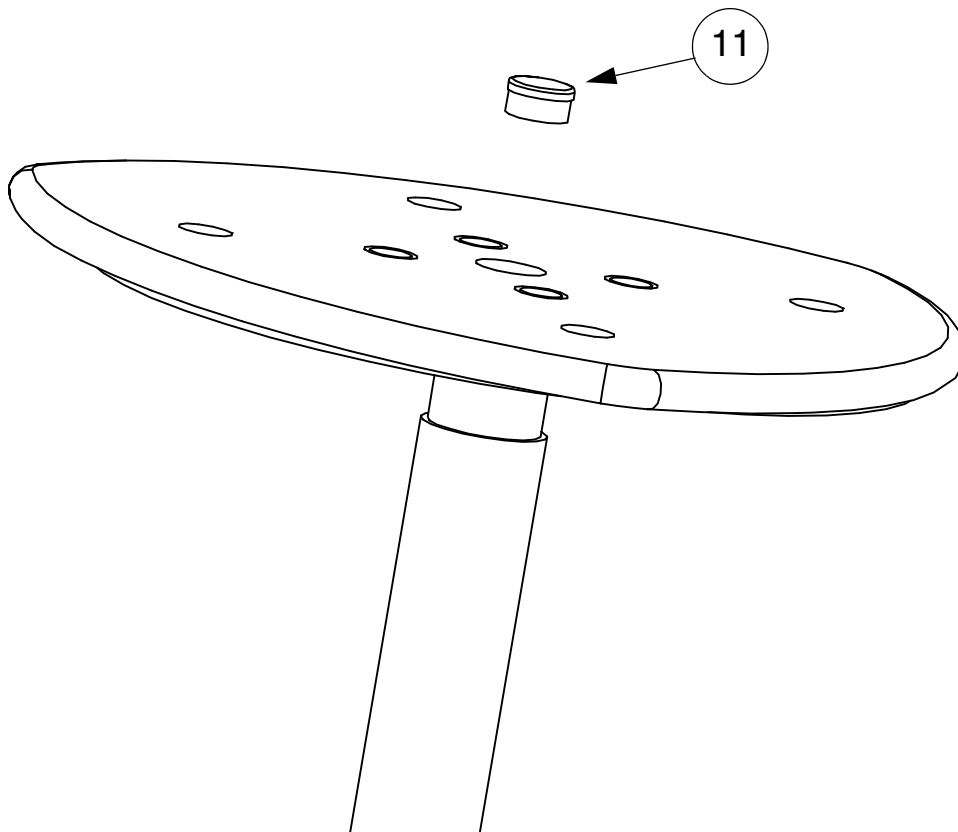


FIG.8

5 POST INSTALLATION INSPECTION

CHECK	TICK
1 All fixings are tightened to there appropriate torque settings and have no protruding sharp edges.	<input checked="" type="checkbox"/>
2 Paint work is not damaged. (Any making good should be carried out using the procedure in the Inspection and Maintenance instructions).	<input type="checkbox"/>
3 Concrete foundations are secure.	<input type="checkbox"/>
4 Concrete has a water shed away from legs.	<input type="checkbox"/>
5 Adequate provision of impact absorbing surfacing and no trip points within the minimum space.	<input type="checkbox"/>
6 Site is clear of all tools and rubbish.	<input type="checkbox"/>
7 Remove any warning signs.	<input type="checkbox"/>

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