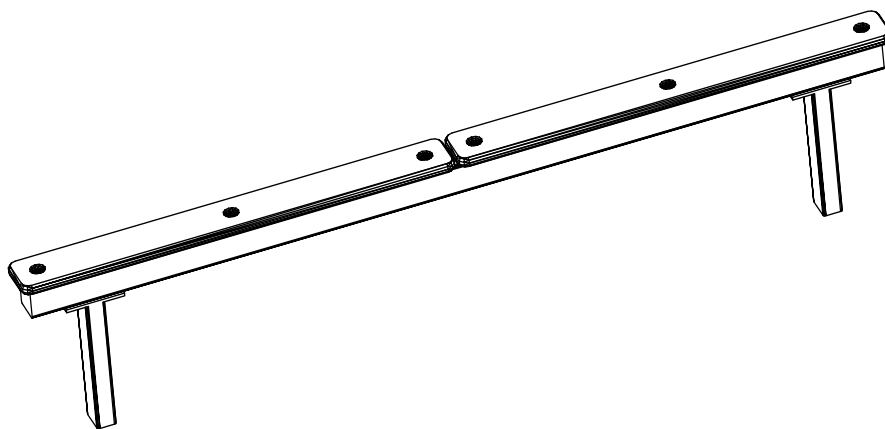




INSTALLATION INSTRUCTIONS

BALANCE BEAM

PCBAL, PCBALE



INTENTIONALLY LEFT BLANK

1 SPECIFICATIONS

REFERENCE	STANDARD			LOOSE FILL			
	HORIZONTAL		SLOPED	HORIZONTAL		SLOPED	
	PCBAL	PCBAL	PCBAL	PCBALE	PCBALE	PCBALE	
OVERALL HEIGHT (H1)	m	0.35	0.55	0.25	0.35	0.55	0.25
OVERALL HEIGHT (H2)				0.53			0.53
EXCAVATION DEPTH (d1)	m	0.55	0.35	0.60	0.55	0.35	0.60
EXCAVATION DEPTH (d2)	M			0.40			0.40
OVERALL LENGTH (L)	m	2.40					
SETTING LENGTH (l)	m	1.10					
WIDTH (W)	m	0.10					
WEIGHT	kg	24			26		
HEAVIEST PART	kg	11.5					
LARGEST PART LxWxH	m	1.80 x 0.06 x 0.06					
CONCRETE	m ³	0.18	0.13	0.16	0.18	0.13	0.16
MINIMUM SPACE LxWxH	m	4.80 x 3.10 x 2.85	4.80 x 3.10 x 3.05	4.80 x 3.10 x 3.03	4.80 x 3.10 x 2.85	4.80 x 3.10 x 3.05	4.80 x 3.10 x 3.03
MAX FREEFALL HEIGHT	m	0.35	0.55	0.53	0.35	0.55	0.53
FALLING SPACE AREA	m ²	13					
IMPACT AREA (WET POUR)	m ²	7.5					
IMPACT AREA PCC EDGE	m	10.75					
LOOSE FILL AREA (SAND/BARK)	m ²				13.75		
LOOSE FILL AREA EDGE	m				14.25		
RUBBER TILES 1m x 1m		10					
RUBBER TILES PCC EDGE	m	13.5					
MANHOURS	hr	2					
MANPOWER		2					
CONSTRUCTIONAL SPACE	m	3 x 3					

NOTE: All dimensions in metres.

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)

The freefall height of the balance beam is less than 0.6m and therefore in accordance with EN1176 it does not strictly require impact absorbing surfacing which has been fully tested to EN1177. However, if it is being installed on hard surfaces such as concrete or tarmac, we recommend that a minimum surfacing area as indicated in the chart above is specified to enhance the safety of its provision. If it is being provided on a grass surface, a suitable level of maintenance will be required to ensure the impact attenuation properties are not significantly reduced.

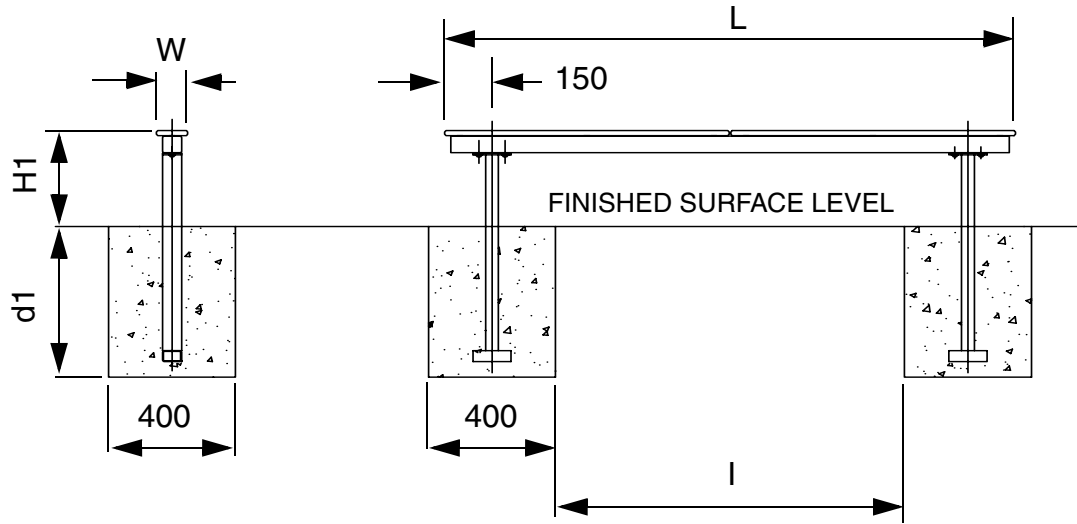
Constructional Space (shown in the above table) is the approximate working area required to layout and assemble the equipment.

For the safe operation of this equipment it must be installed on horizontal ground with the required minimum space. The concrete foundations indicated are for average ground. Care should be taken concerning abnormal conditions.

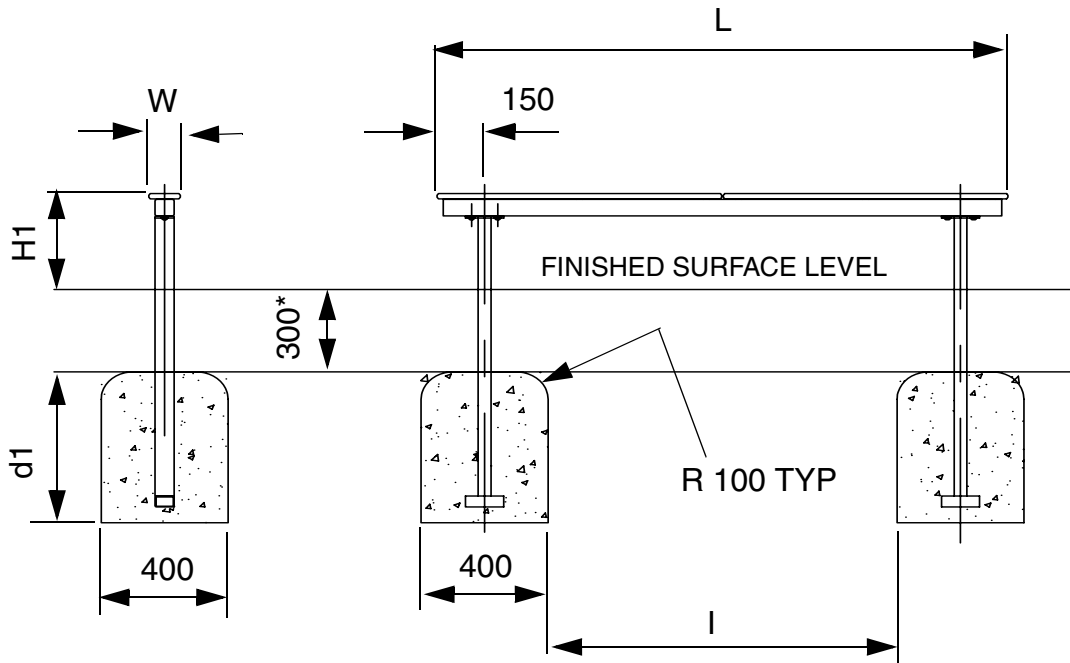
If two or more balance beams are being installed in close proximity to each other to provide continuity of the play activity, the recommended end to end spacing of adjacent beams is 300mm. Care should however be taken to ensure that one beam does not encroach into the potential fall area at the sides of a neighbouring beam.

Tools: Plumblines, 5m tape measure, Spirit level, M10 Torx tool (supplied with unit), Socket wrench, Paint brush, Masking tape.

Minimum Personal Protective Equipment:- Gloves, Armoured boots, Protective goggles.

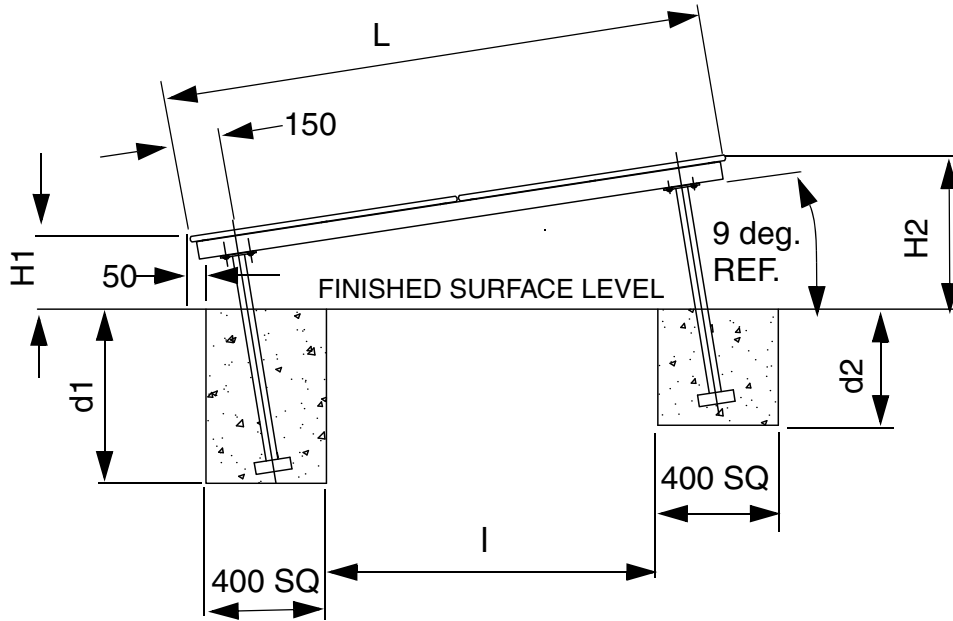


STANDARD INSTALLATION - PCBAL



LOOSE FILL INSTALLATION - PCBALE

FIG.1



STANDARD INSTALLATION -PCBAL SLOPED

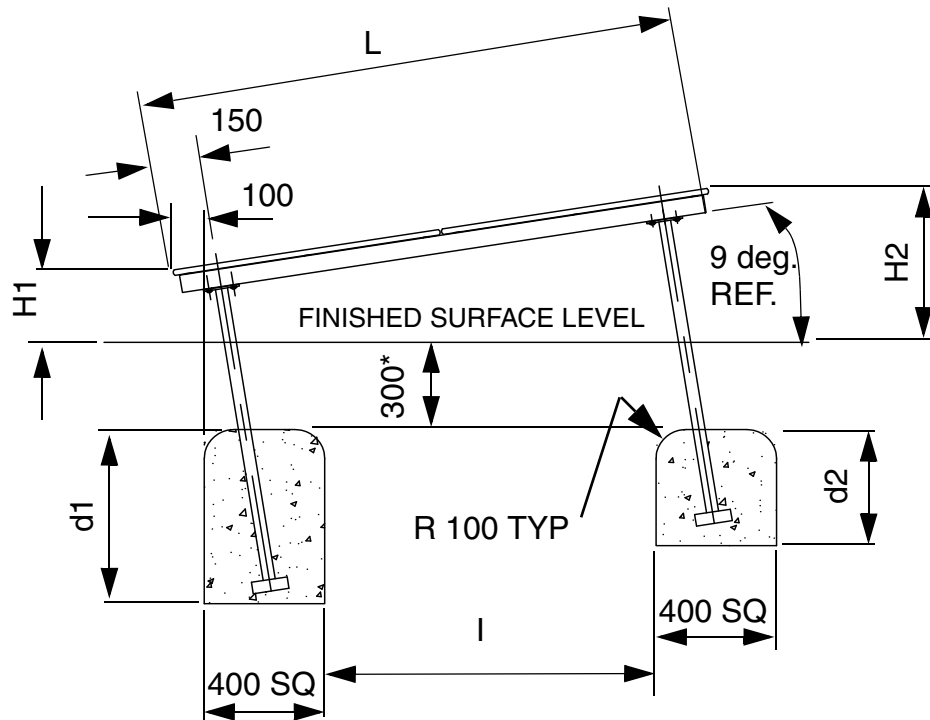


FIG.2 LOOSE FILL INSTALLATION - PCBALE SLOPED

***NOTE:** Generally, it is recommended that loose fill surfaces are installed to a depth of 300mm. However with certain loose fill materials, a greater depth may be required. This will need to be determined by allowing 200mm for dispersal in addition to the thickness required to achieve the required critical fall height.

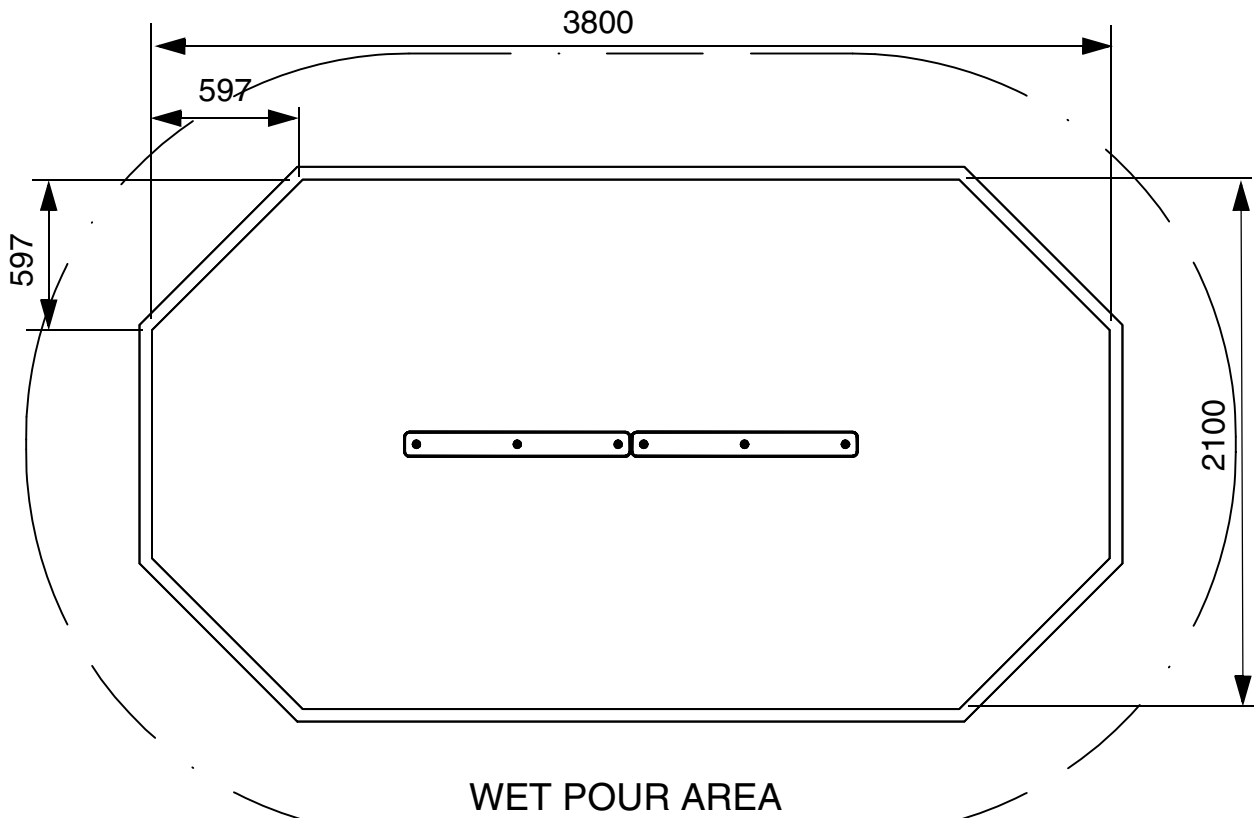


FIG.3

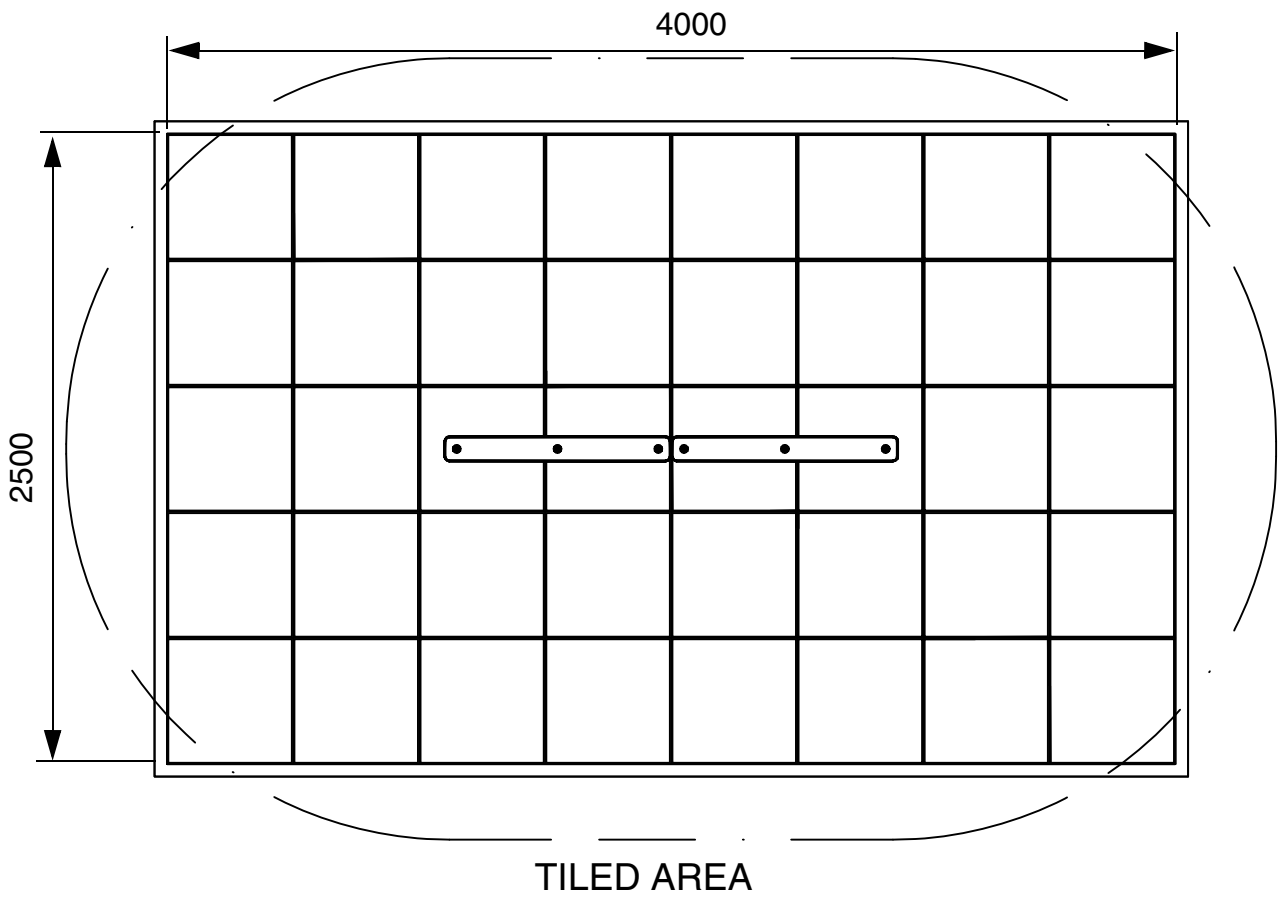


FIG.4

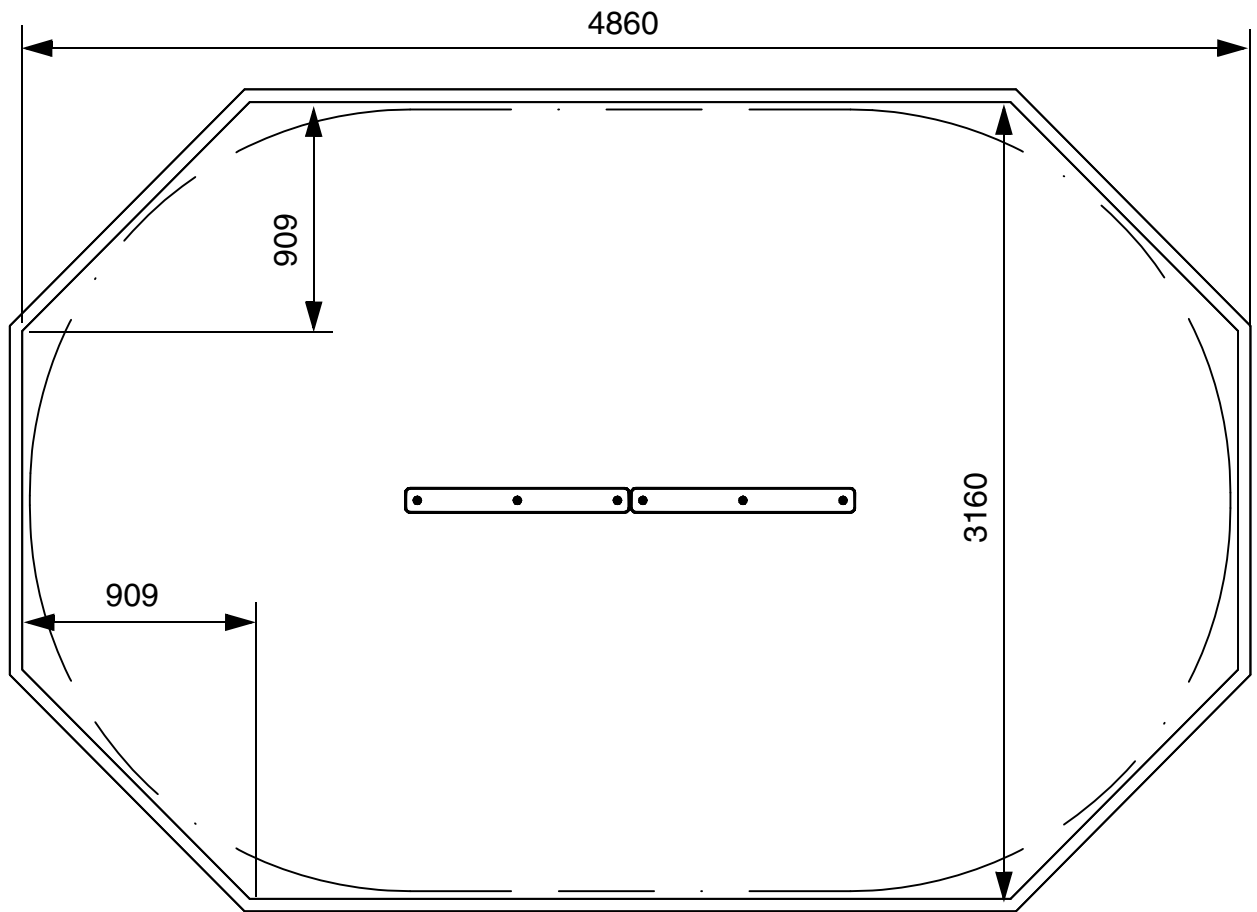


FIG.5

LOOSE FILL AREA

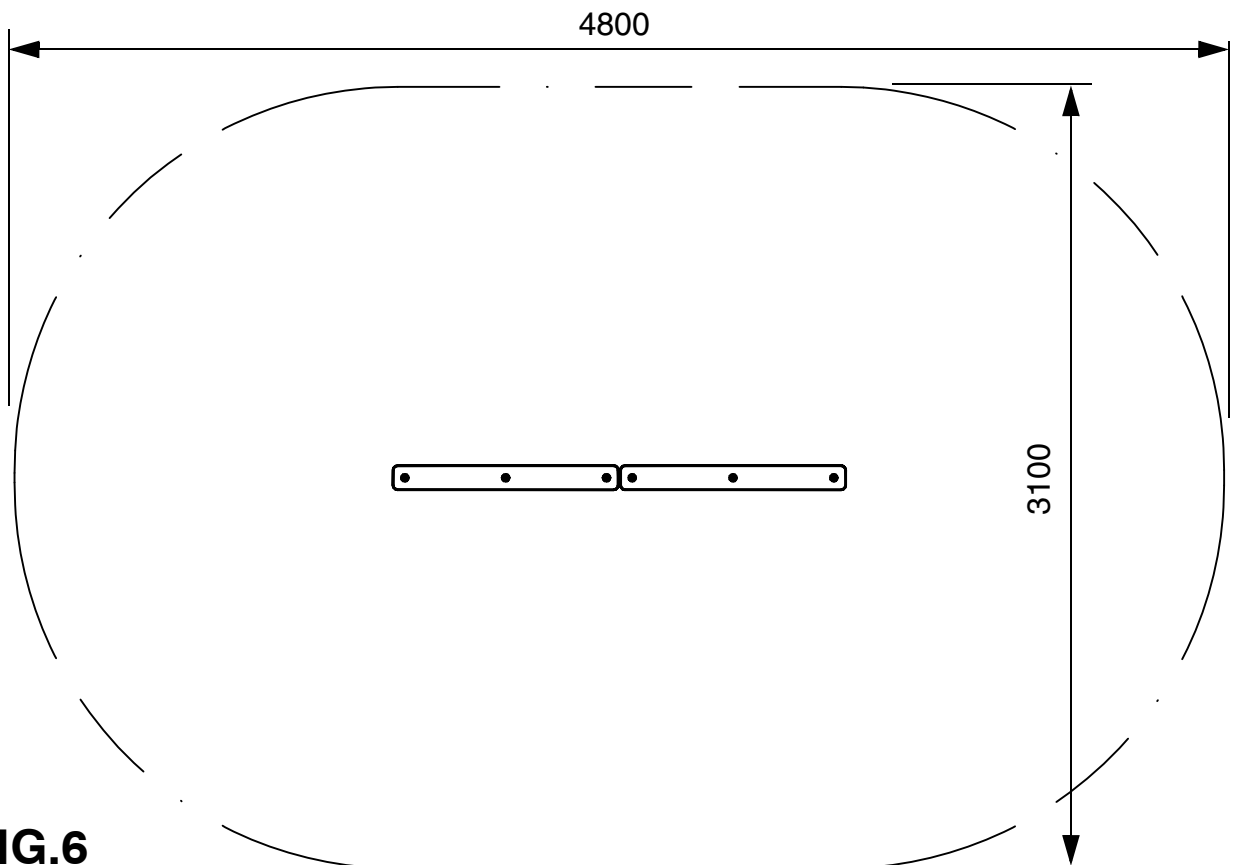


FIG.6

FALLING SPACE

2 PARTS LIST

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	30090501	BALANCE BEAM TREAD	2	2.000
2	30090301	BALANCE BEAM	1	11.500
3	10121030	RESISTORX BOLT M10 X 30	10	0.028
4	10291000	WASHER M10	10	0.005
STANDARD				
5	30090101	SUPPORT FOOT	2	4.000
LOOSE FILL				
5	30090101E	SUPPORT FOOT	2	5.000

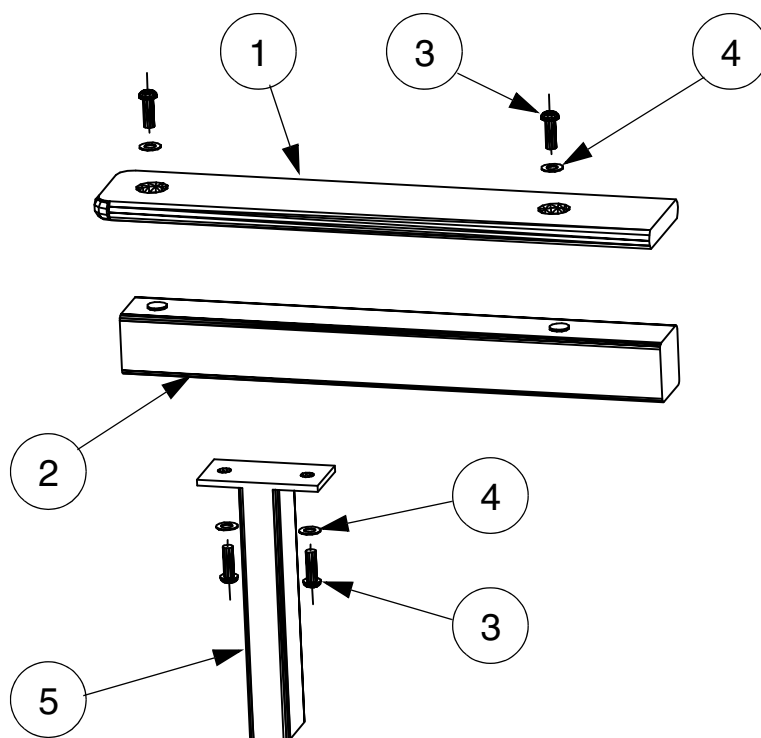



FIG.7

3 INSTALLATION PROCEDURES.

- Before commencing installation the surrounding area must be sufficiently fenced and signs erected to warn the public of the risk of injury.
- Secure support feet (item 5) to beam (item 2) using 2 off M10 x 30 lg Resistorx bolts (item 3) and M10 washers (item 4) per foot. FIG.3
- Mark out foundations and excavate holes. (refer to site plan for unit location)
- Move balance beam assy into excavation, pack up to required height.
- Check that the beam is level and plumb or at correct height at each end on sloping beam.
- Brace balance beam in position.
- Fill holes with concrete ensure full volume of concrete is used. The top of the concrete should gradually (1:100) slope down & outwards locally from the equipment frame to the required level to form a water shed. Allowance should be made for any special surfacing.

- viii) Loose fill only: The support legs should be marked with a 'Basic Level Mark' to indicate the recommended Finished Surface Level of the surface. Using masking tape, paint a 10mm wide mark around each leg with black paint.
- ix) Keep installation off limits to the public until concrete has completely cured. (Recommended initial curing time 48hrs).
- x) After concrete has completely cured secure balance beam treads (item 1) to top of beam (item 2) using 6 off M10 x 30 lg Resistorx bolts (item 3) and M10 washers (item 4). FIG.3

4 POST INSTALLATION INSPECTION

CHECK	CHECK 
1 The unit is installed at the correct height.	<input type="checkbox"/>
2 All fixings are tightened and have no protruding sharp edges.	<input type="checkbox"/>
3 Paint work and polyethylene treads are not damaged.	<input type="checkbox"/>
4 Loose fill surfacing only: the Basic Level Marks have been painted on the legs.	<input type="checkbox"/>
5 Concrete foundations & all fixings are secure.	<input type="checkbox"/>
6 Concrete has a water shed away from legs.	<input type="checkbox"/>
7 Adequate provision of impact absorbing surfacing and no obstructions or trip points within the equipments falling space. If a grass surface has been selected, ensure it is in good condition with no sharp stones or other contaminates.	<input type="checkbox"/>
8 Site is clear of all tools, any assembly aids and rubbish.	<input type="checkbox"/>
9 Remove any warning signs.	<input type="checkbox"/>

INTENTIONALLY LEFT BLANK