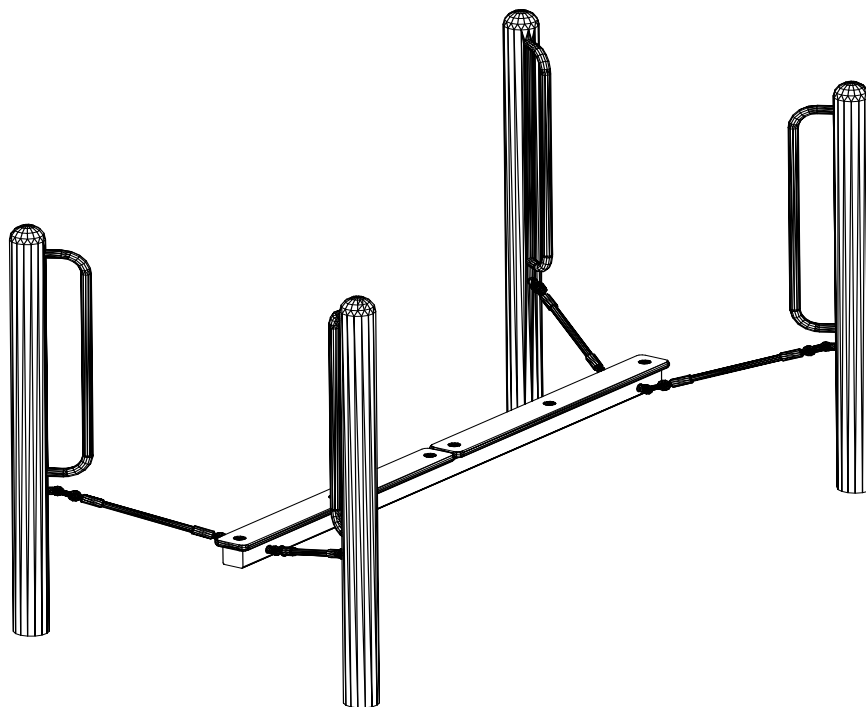




**INSTALLATION INSTRUCTIONS**  
**WOBBLING BOARD**  
**PCWBD, PCWBDE**



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# 1 SPECIFICATIONS

REFERENCE	STANDARD		LOOSE FILL	
	PCWBD		PCWBDE	
OVERALL HEIGHT (H1)	m	1.400		
EXCAVATION DEPTH (d1)	m	0.550		
OVERALL LENGTH (L) **	m	2.075		
OVERALL WIDTH (W) **	m	1.000		
SETTING ANGLE (Ø) **		60 deg		
BOARD LENGTH (l)	m	1.800		
BOARD WIDTH (w)	m	0.100		
BOARD SETTING HEIGHT (H2)	m	0.350		
WEIGHT	kg	71.000	83.000	
HEAVIEST PART	kg	13.000	16.000	
LARGEST PART LxWxH	m	1.850 X 0.200 X 0.260	2.150 X 0.200 X 0.260	
CONCRETE	m <sup>3</sup>	0.200		
MINIMUM SPACE LxWxH	m	5.16 X 4.09 X 2.85		
MAX FREEFALL HEIGHT	m	0.350		
FALLING SPACE AREA	m <sup>2</sup>	19		
IMPACT AREA (WET POUR)	m <sup>2</sup>	7.5		
IMPACT AREA PCC EDGE	m	11		
LOOSE FILL AREA (SAND/BARK)	m <sup>2</sup>		20	
LOOSE FILL AREA EDGE	m		17	
RUBBER TILES 1m x 1m		10		
RUBBER TILES PCC EDGE	m	13.5		
MANHOURS	hr	3.5		
MANPOWER		2		
CONSTRUCTIONAL SPACE	m	3 X 3		

**NOTE: \*\* Dimensions L & W and setting angle Ø are important to achieve the board setting height H2 and should be as accurate as possible on installation.**

**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/mm<sup>2</sup> min compressive strength )

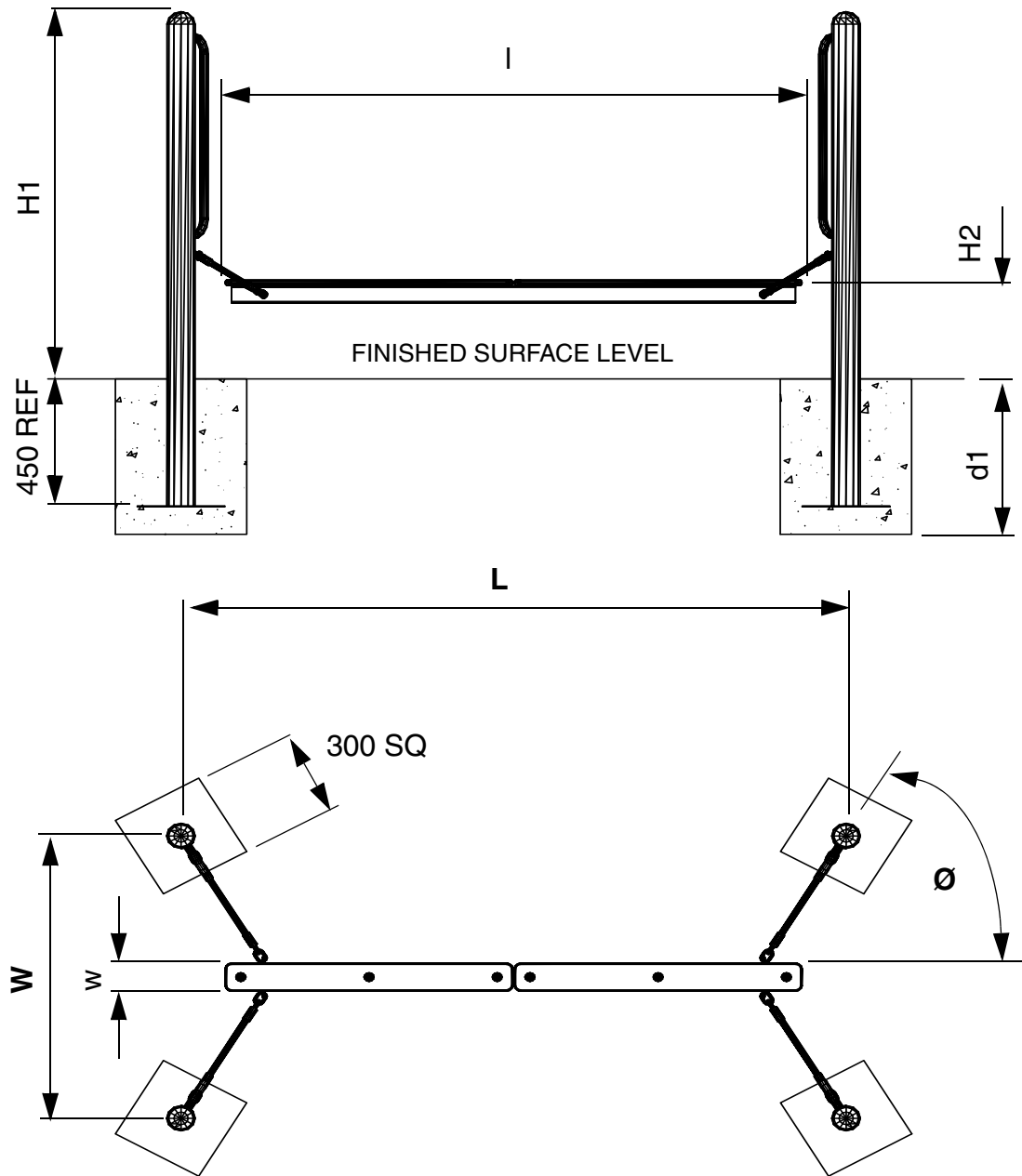
The freefall height of the moving beam is less than 0.6m and therefore in accordance with EN1176 it does not strictly require impact absorbing surfacing which has been fully tested to EN1177. However, if it is being installed on hard surfaces such as concrete or tarmac, we recommend that a minimum surfacing 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.

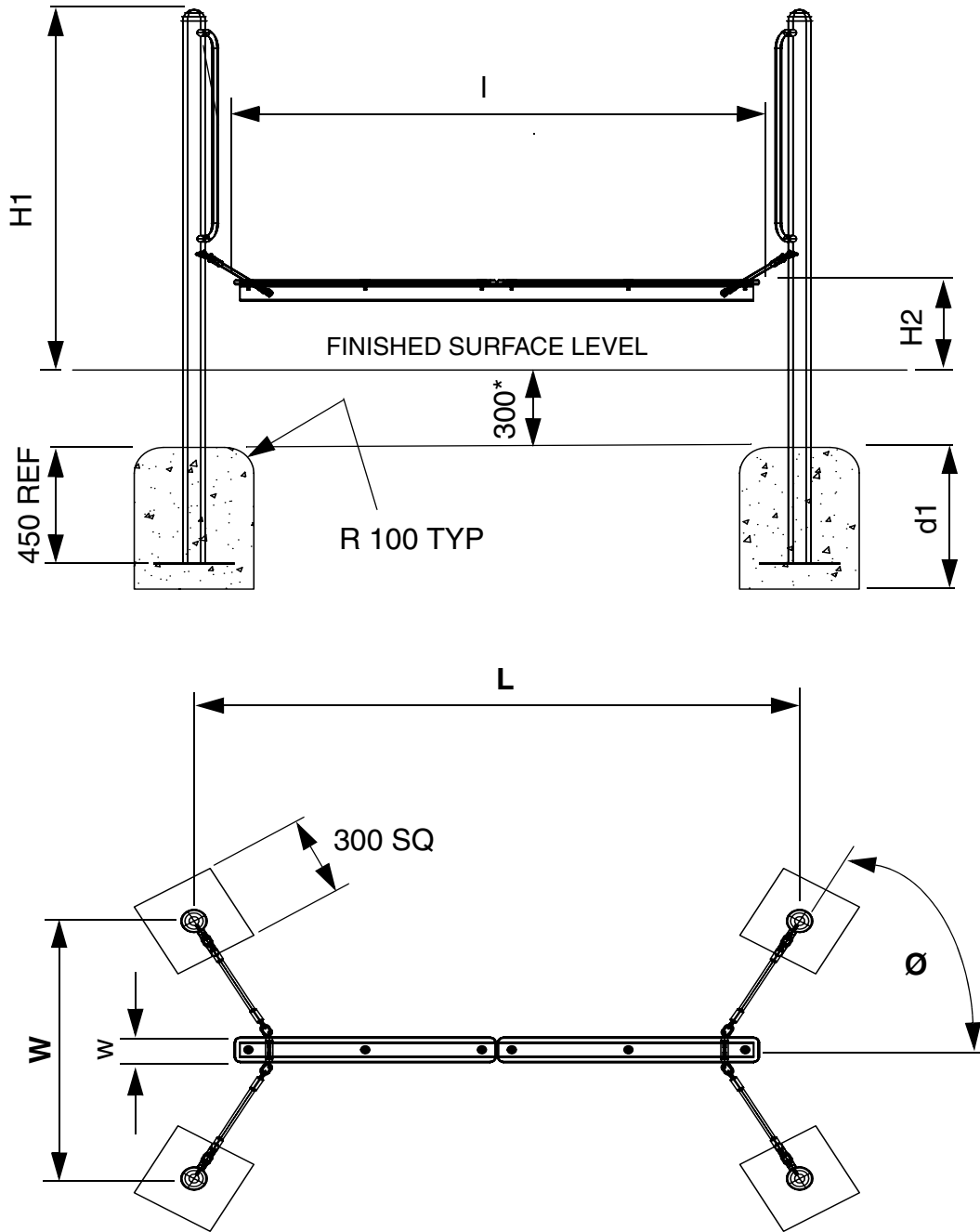
**Tools:** Plumblin, 5m tape measure, Spirit level, M10 Torx tool (supplied with unit), Socket wrench, P.T.F.E tape (supplied by others).

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



STANDARD INSTALLATION - PCWBD

FIG.1



**FIG.2**

**LOOSE FILL INSTALLATION - PCWBDE**

**\*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 100mm for dispersal in addition to the thickness required to achieve the required critical fall height.

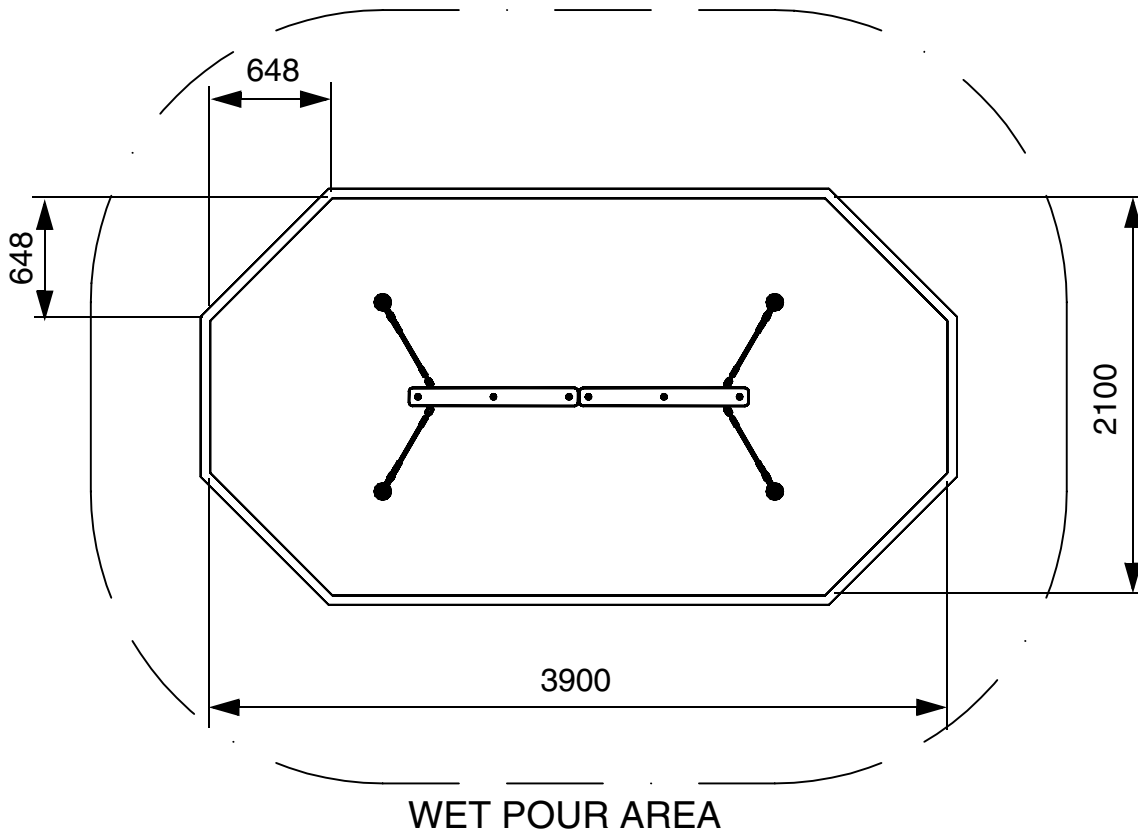


FIG.3

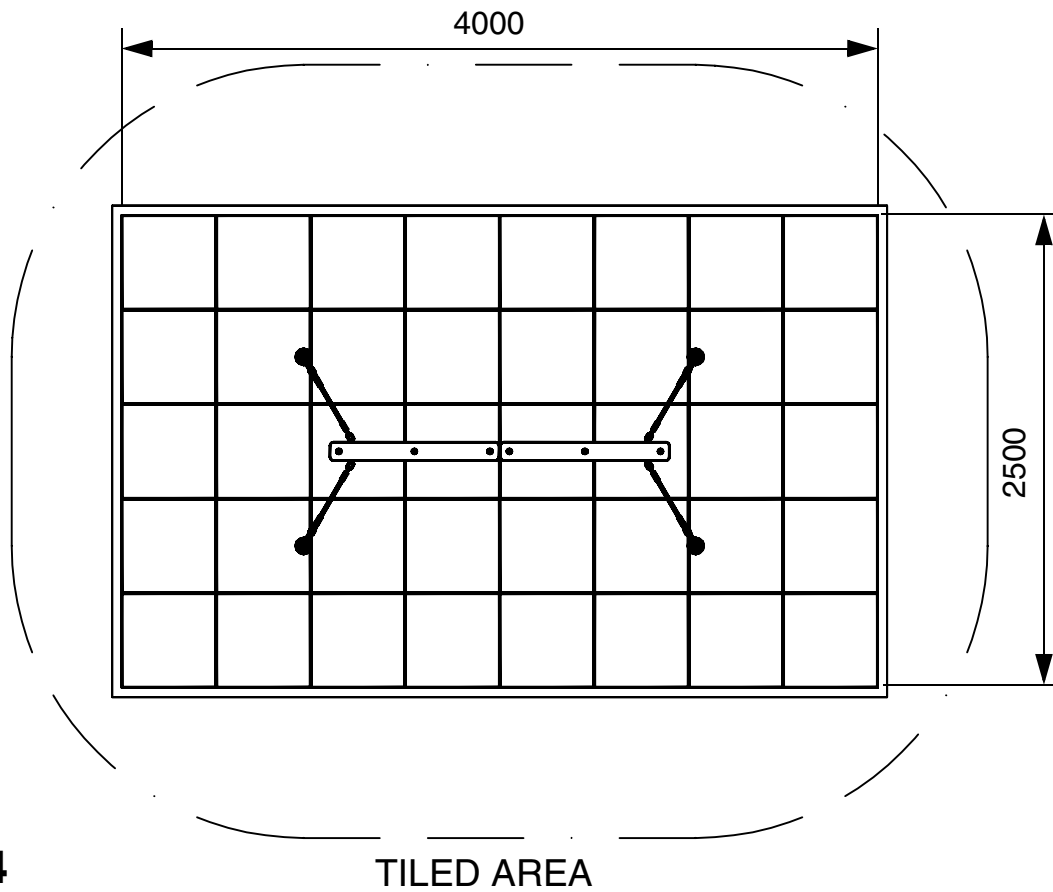
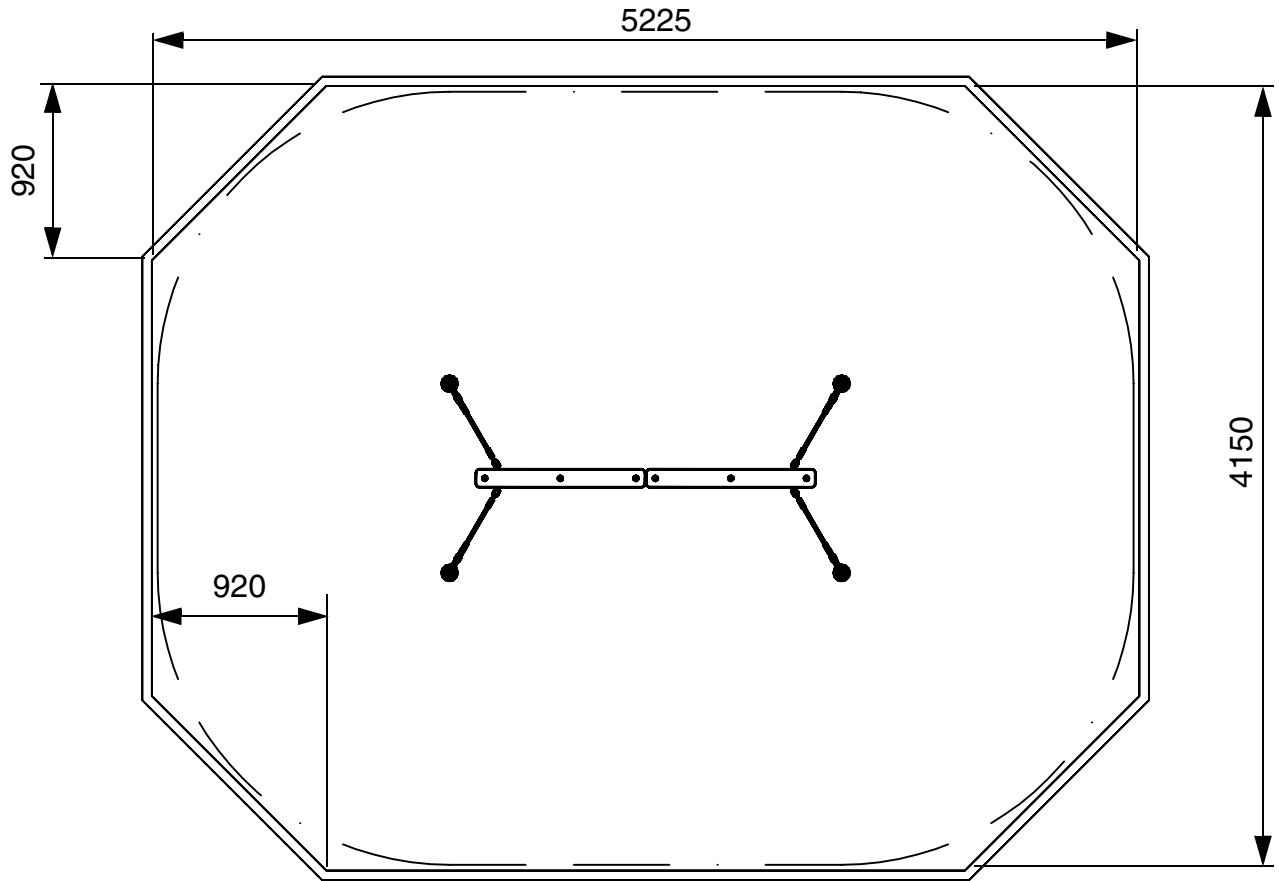
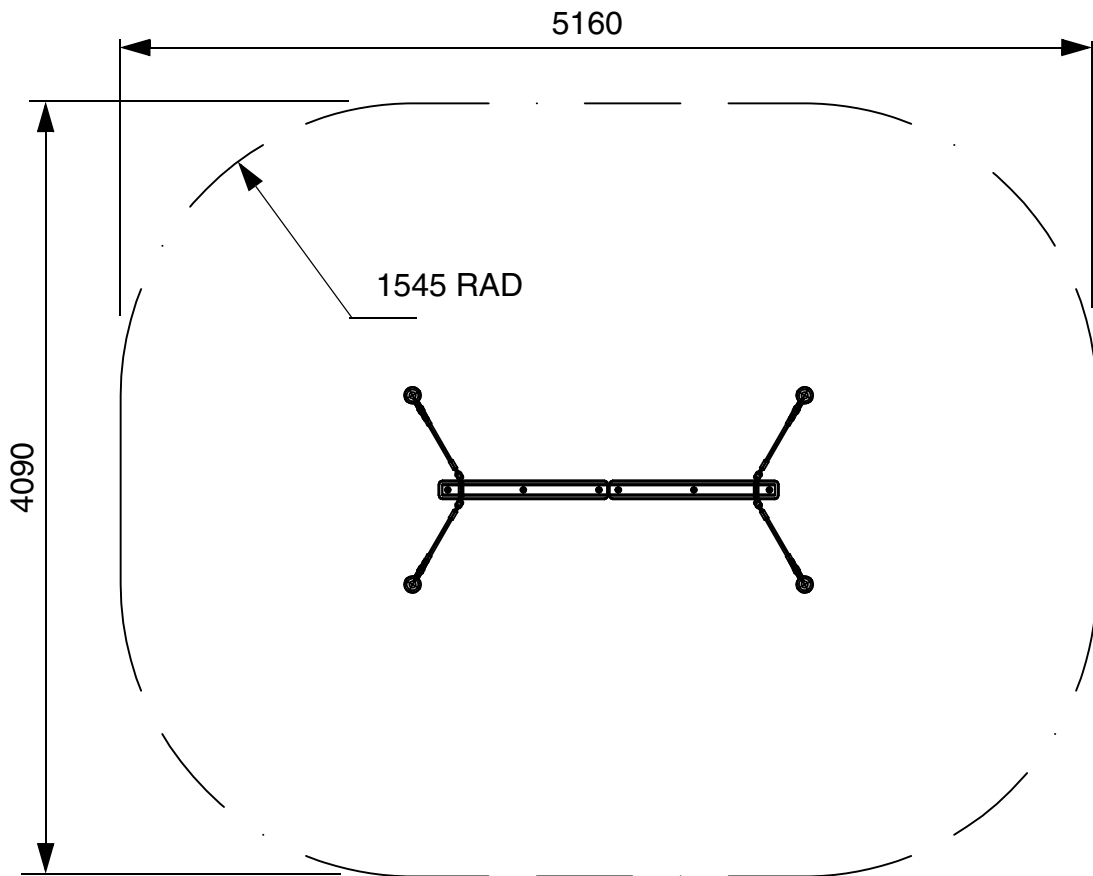


FIG.4



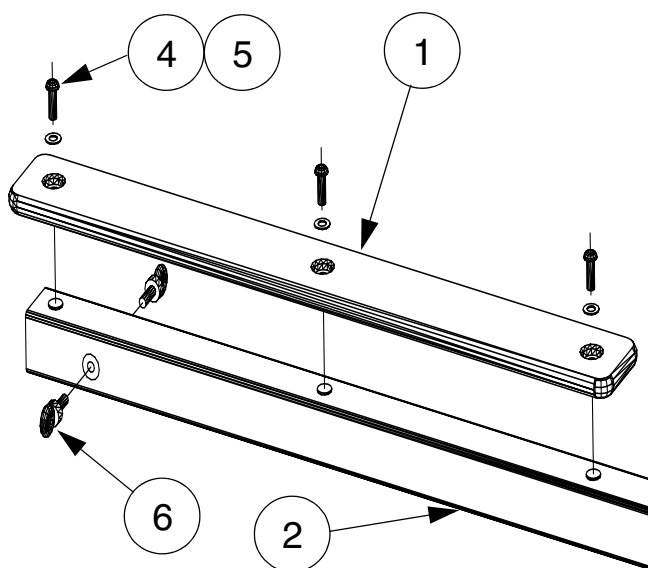
**FIG.5** LOOSE FILL AREA



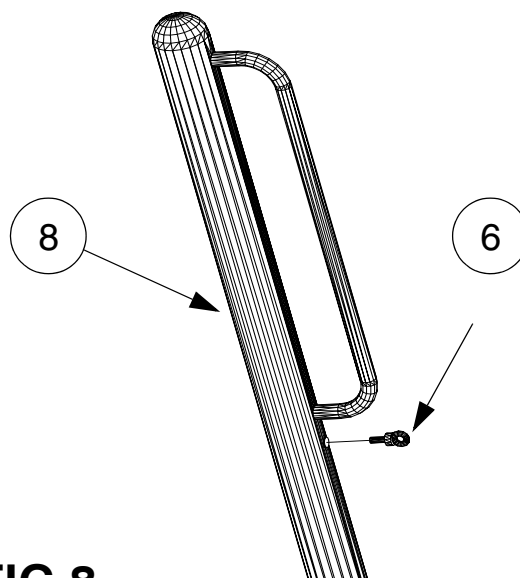
**FIG.6** FALLING SPACE

## 2 PARTS LIST

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	30090501	BEAM TREAD	2	2.000
2	30080201	BEAM	1	11.500
3	30080301	WOBBLING BOARD ROPE	4	0.500
4	10121030	RESISTORX BOLT M10 X 30	6	0.028
5	10291000	WASHER M10	6	0.005
6	15711010	EYEBOLT M10	8	0.150
7	15715000	COUPLING LINK	8	0.100
<b>STANDARD</b>				
8	30080101	SUPPORT POST	4	16.500
<b>LOOSE FILL</b>				
8	30080101E	SUPPORT POST	4	19.500



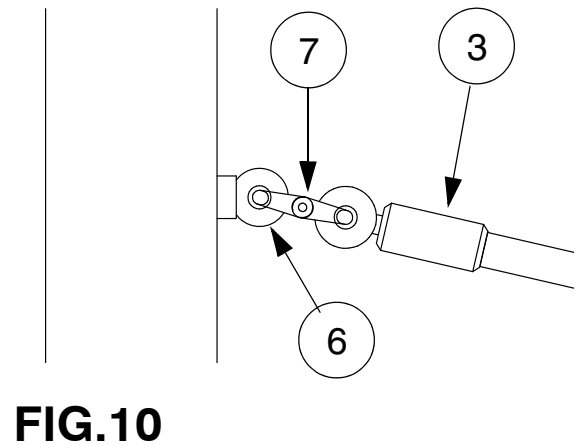
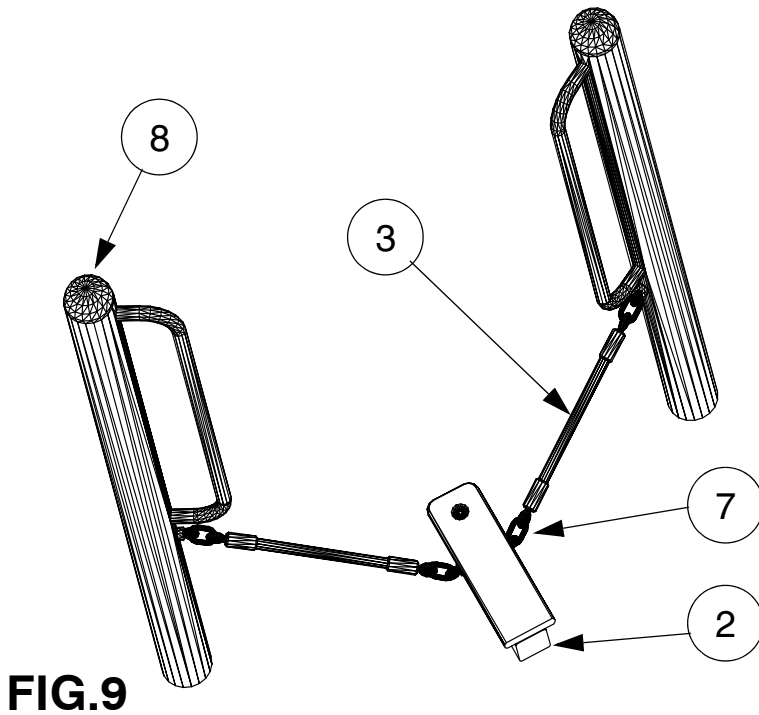
**FIG.7**



**FIG.8**

## 3 INSTALLATION PROCEDURES.

- i) Before commencing installation the surrounding area must be sufficiently fenced and signs erected to warn the public of the risk of injury.
- ii) Mark out foundations and excavate holes. (refer to site plan for unit location)
- iii) Place support posts into excavation, pack up to required height.
- iv) Check that the support posts are plumb and at correct height, angle and centres, this is important to achieve the board setting height H2. (See note on page 1)
- v) 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.
- vi) Keep installation off limits to the public until concrete has completely cured. (Recommended initial curing time 48hrs).
- vii) After concrete has completely cured screw eyebolts (item 6) into mounting holes in support posts & side of beam ensuring a full engagement of thread. Note required orientation and use P.T.F.E tape on eyebolt threads before assembly. FIG.7 & 8.
- viii) Secure beam treads (item 1) to top of beam (item 2) using 6 off M10 x 30 lg Resistorx bolts (item 4) and M10 washers (item 5). FIG.7.



ix) Attach beam (item 2) to support posts (item 8) with wobbling board ropes (item 3) using 8 off coupling links (item 7). FIG.9 & 10.

#### 4 POST INSTALLATION INSPECTION

**CHECK**

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1 The unit is installed at the correct height.</li> <li>2 All fixings are tightened and have no protruding sharp edges.</li> <li>3 Paint work, polyethylene treads and ropes are not damaged.</li> <li>4 Concrete foundations &amp; all fixings are secure.</li> <li>5 Concrete has a water shed away from legs.</li> <li>6 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.</li> <li>7 Site is clear of all tools,any assembly aids and rubbish.</li> <li>8 Remove any warning signs.</li> </ol> | <p><b>CHECK</b> ✓</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> |
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