



INSTALLATION INSTRUCTIONS

HUMP BRIDGE

PCBRD



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1 SPECIFICATIONS

REFERENCE		PCBRD
OVERALL HEIGHT (H1)	m	0.952
OVERALL LENGTH (L)	m	1.100
OVERALL WIDTH (W)	m	0.700
POST HEIGHT (H2)	m	0.865
WEIGHT	kg	79.000
HEAVIEST PART	kg	50.000
LARGEST PART LxWxH	m	1.090 X 1.073 X 0.686
CONCRETE	m ³	0.18
MINIMUM SPACE LxWxH	m	4.10 X 3.7 X 1.80
MAX FREEFALL HEIGHT	m	N/A
FALLING SPACE AREA	m ²	13.2
MANHOURS	hr	2
MANPOWER		1
CONSTRUCTIONAL SPACE	m	4 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 equipment 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.

This equipment is not suitable for installation with loose fill surfaces, such as sand or bark.

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

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

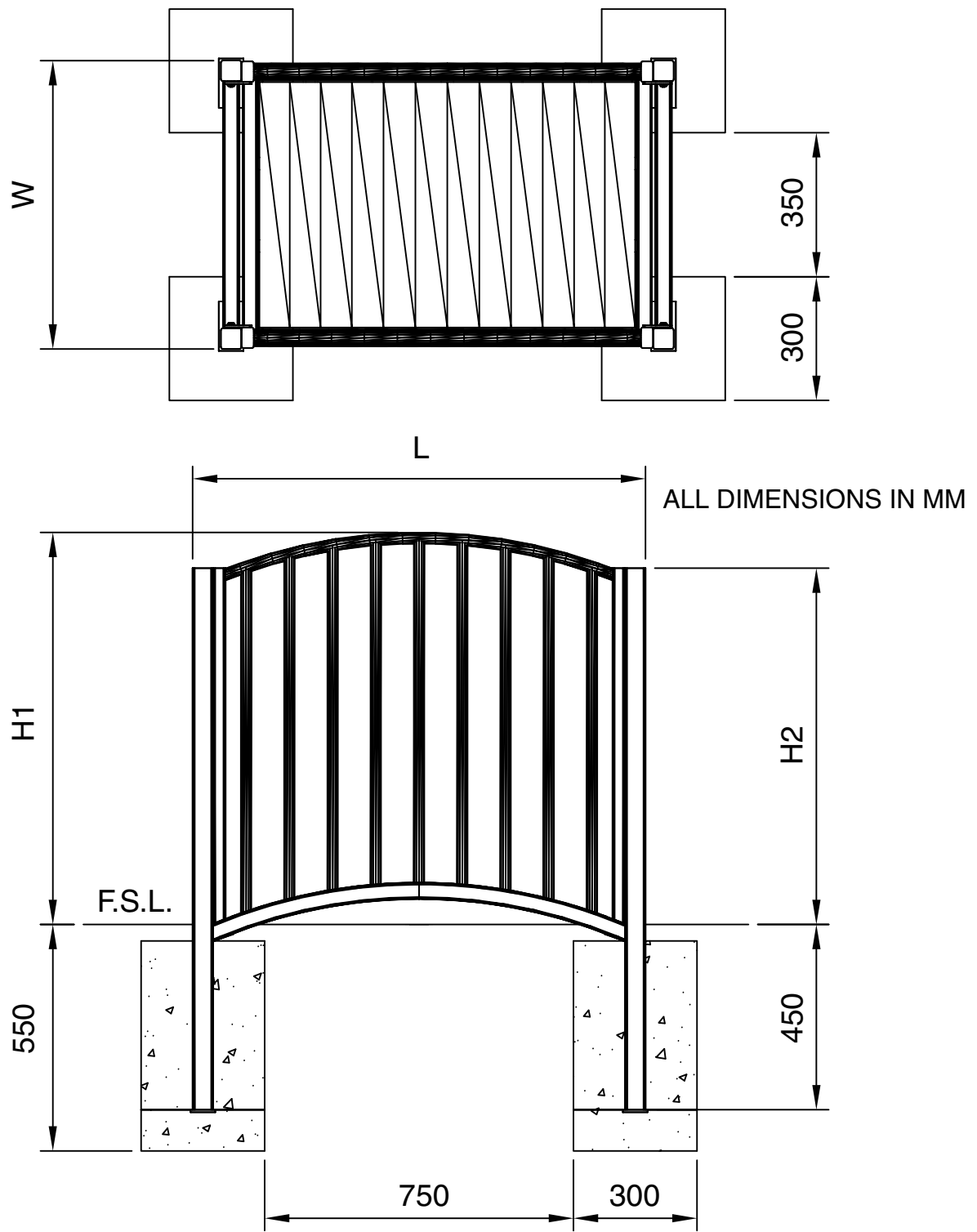


FIG.1

STANDARD INSTALLATION

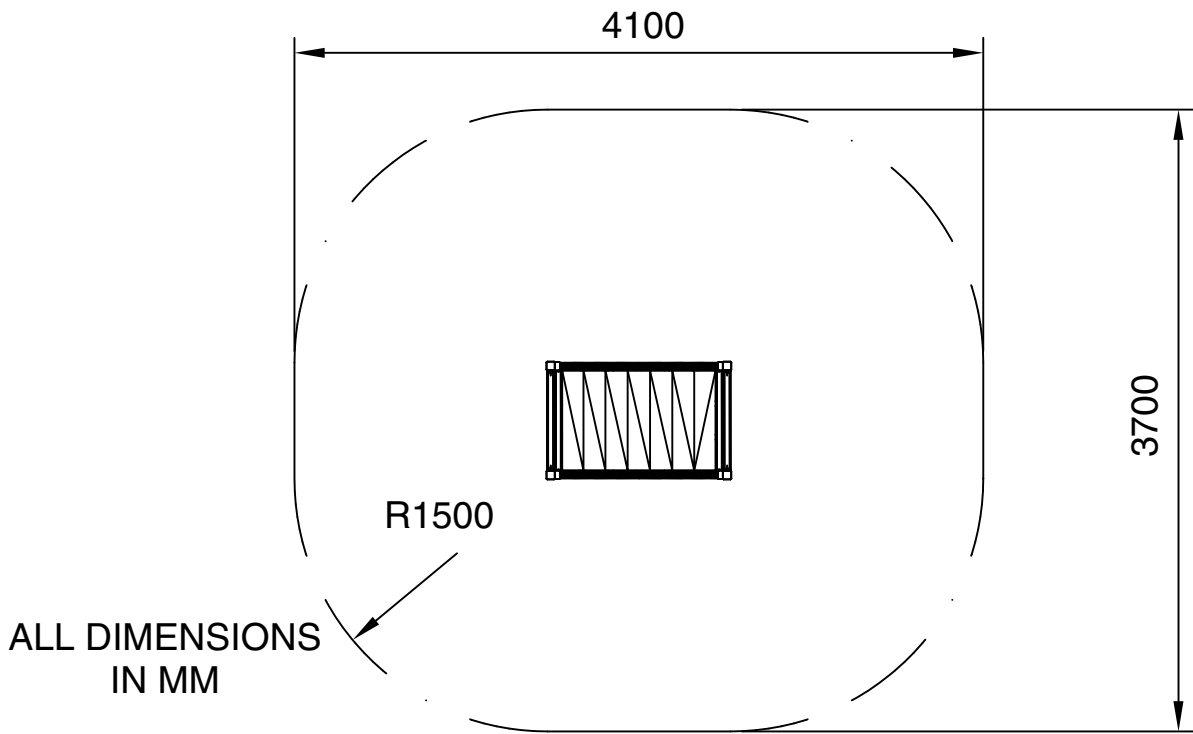
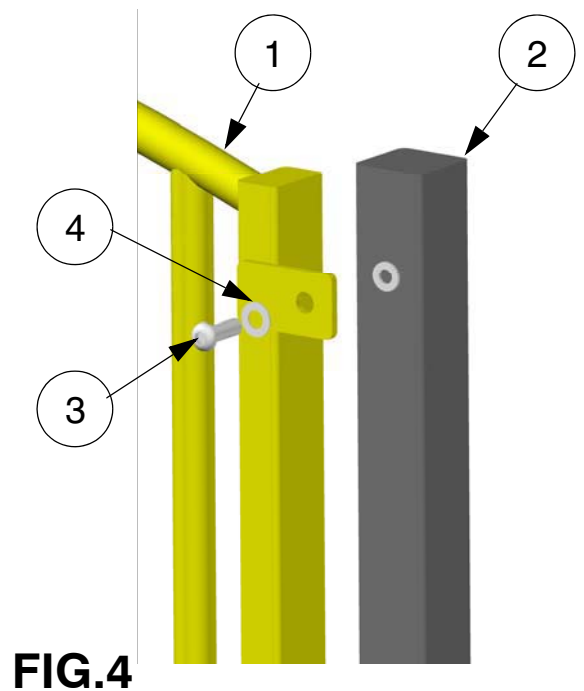
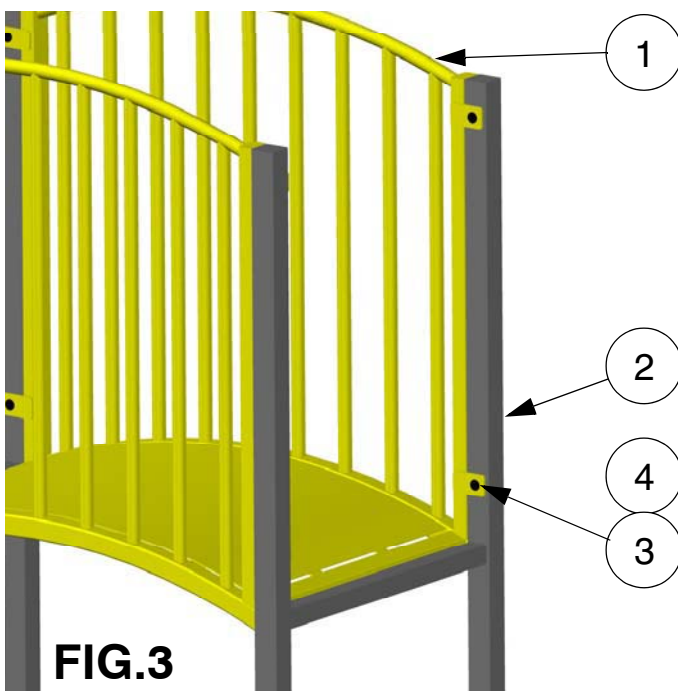


FIG.2 FALLING SPACE

2 PARTS LIST

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	36005060	HUMP BRIDGE	1	50.000
2	30050101	BRIDGE MOUNTING FRAME	2	14.000
3	10121030	RESISTORX HEAD M10 X 30	8	0.028
4	10291000	PLAIN WASHER M10	8	0.002
5	19024501	PROTECTIVE PLUG	12	0.001



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) Secure Hump Bridge (item 1) to each Bridge Mounting Frame (item 2) using 4 off M10 x 30 Resistorx bolts (item 3) and M10 Washers (item 4). (FIG.3 & 4).
- iii) Fully tighten fixing bolts to a maximum torque setting of 20-25Nm.
- iv) In all fixing positions on steel work that have not been utilised, the protective plug should be removed and the permanent black plastic protective plug (item 5) inserted & knocked home with a soft hammer.
- v) Mark out foundations and excavate holes. (refer to site plan for unit location).
- vi) Place completed assembly of the Hump Bridge into excavations and pack up to required height.
- vii) Check that the completed assembly is plumb and square and at correct height. The finished surface level should be flush with the top of the cross beam on the Bridge Mounting Frame. (FIG.1)
- viii) 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.
- ix) Keep installation off limits to the public until concrete has completely cured. (Recommended initial curing time 48hrs).

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 is not damaged. (Any making good should be carried out using the procedure in the Inspection and Maintenance instructions).	<input type="checkbox"/>
4 Ensure all unused fixing holes in steel work have correct black plastic plug fitted.	<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"/>