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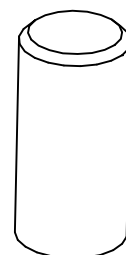
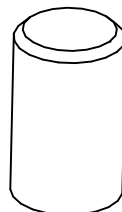
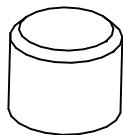
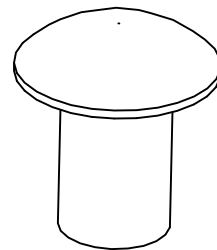
## INSTALLATION INSTRUCTIONS

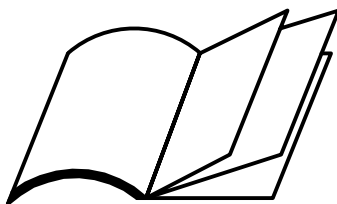
### RUBBER STEPPING STONES

PCBOL200R, PCBOL200B, PCBOL300B, PCBOL400R & PCBOL500B

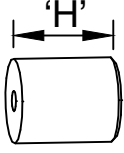
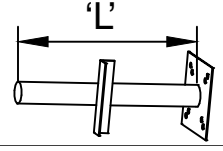

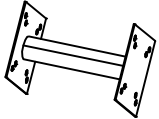
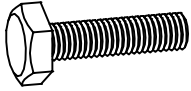
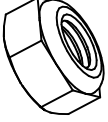

### & MUSHROOM TOP

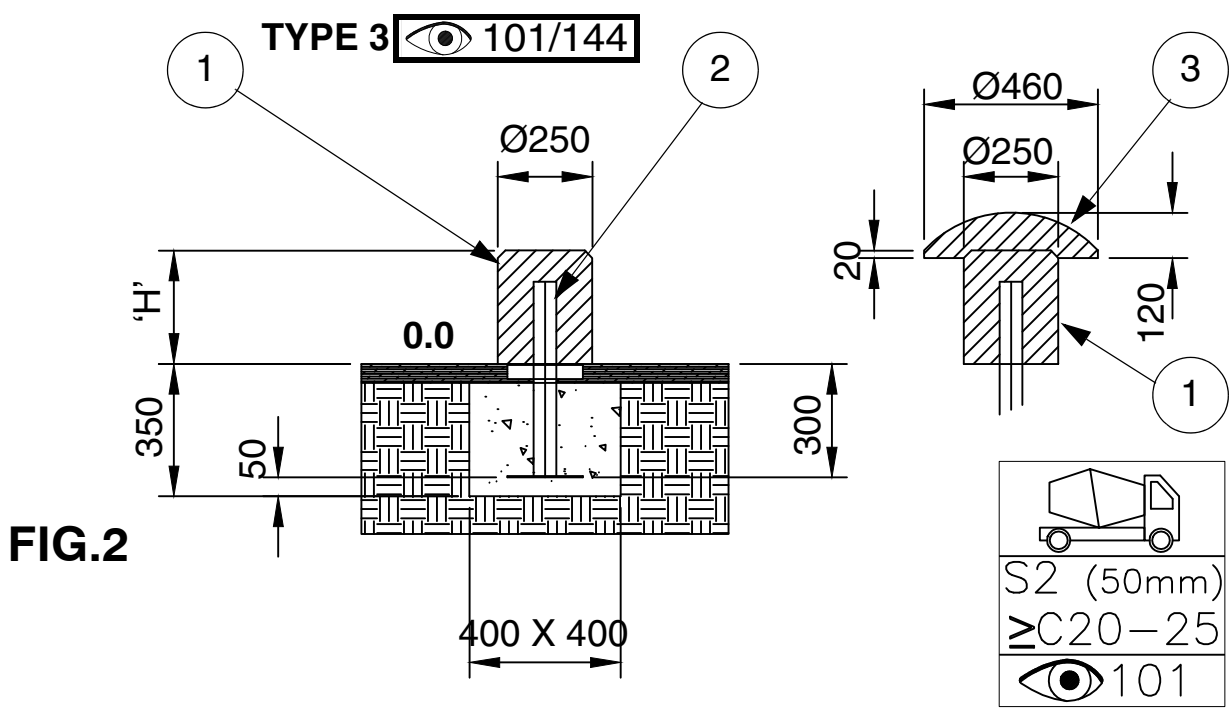
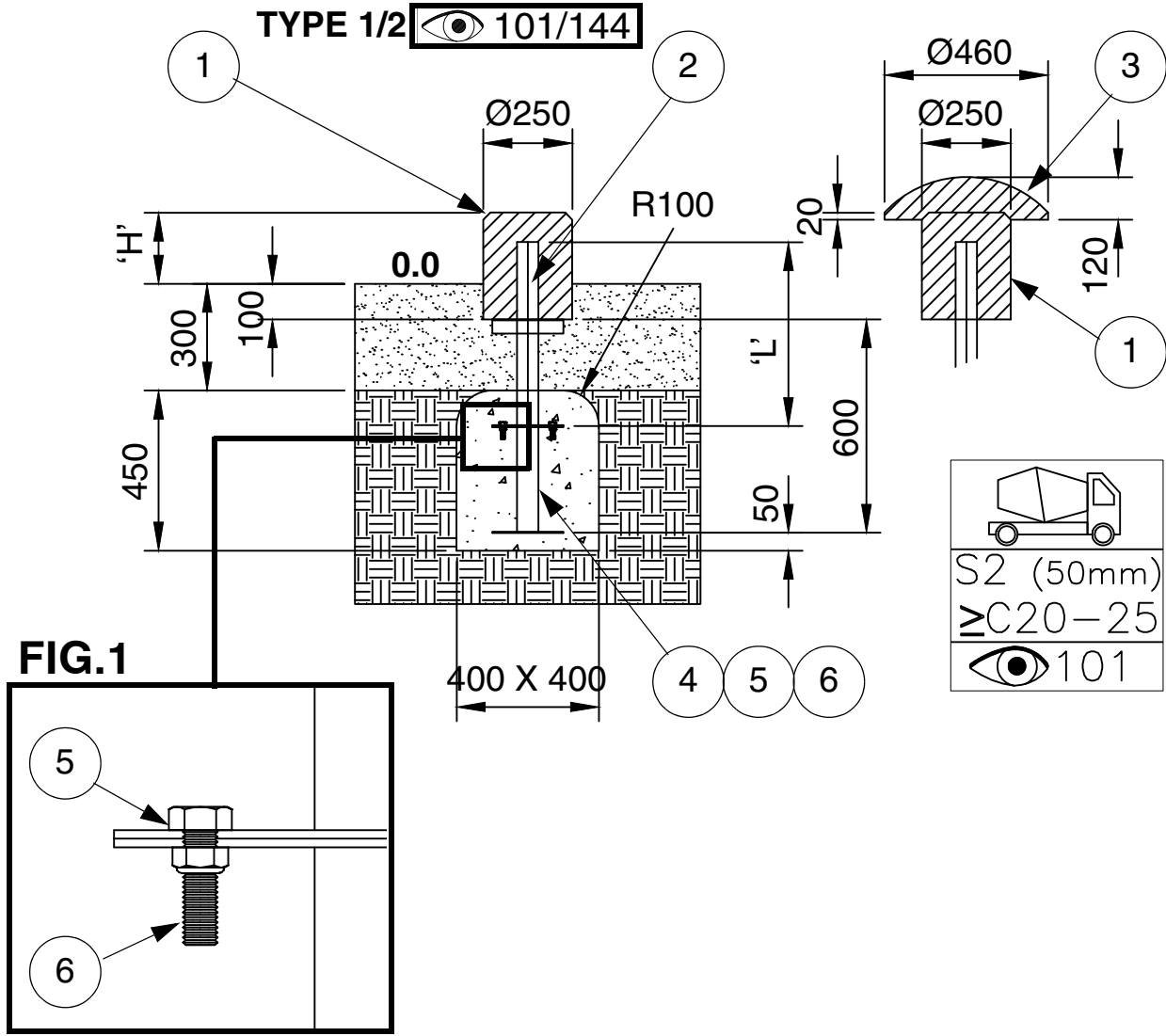
ILMUTOP

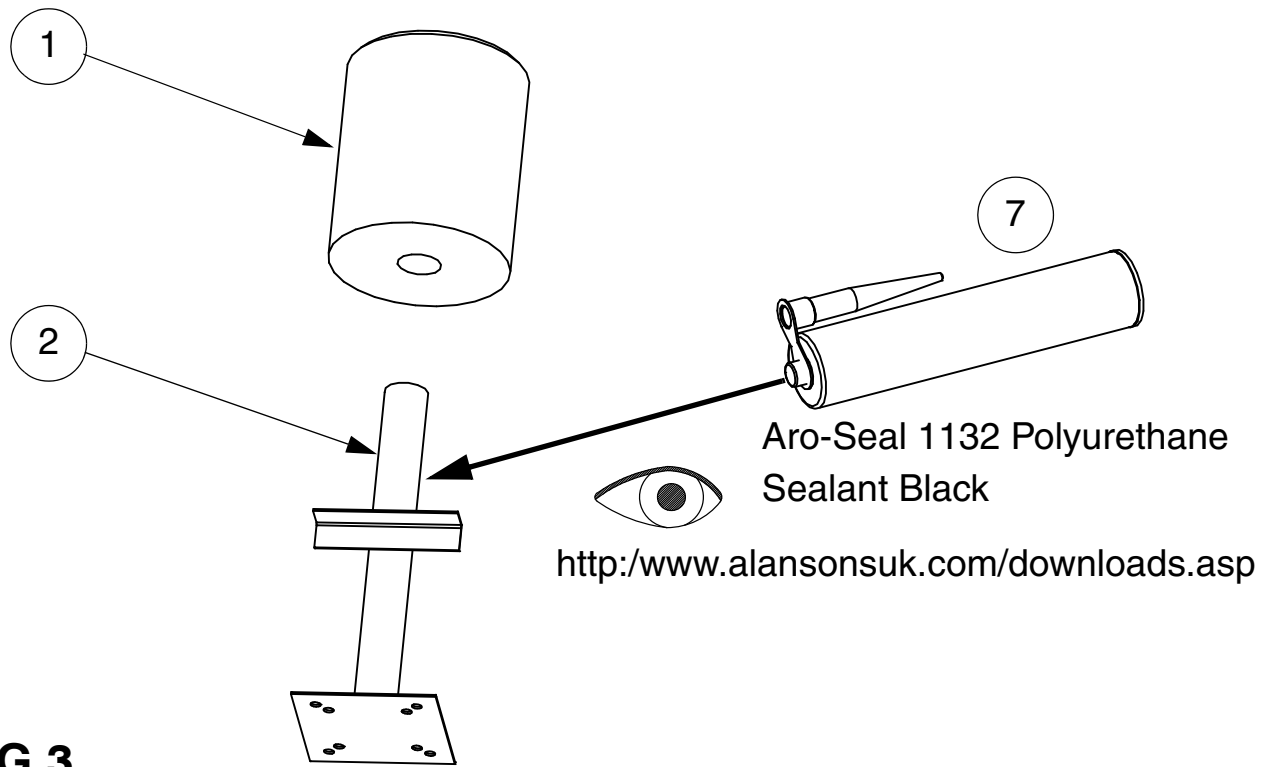




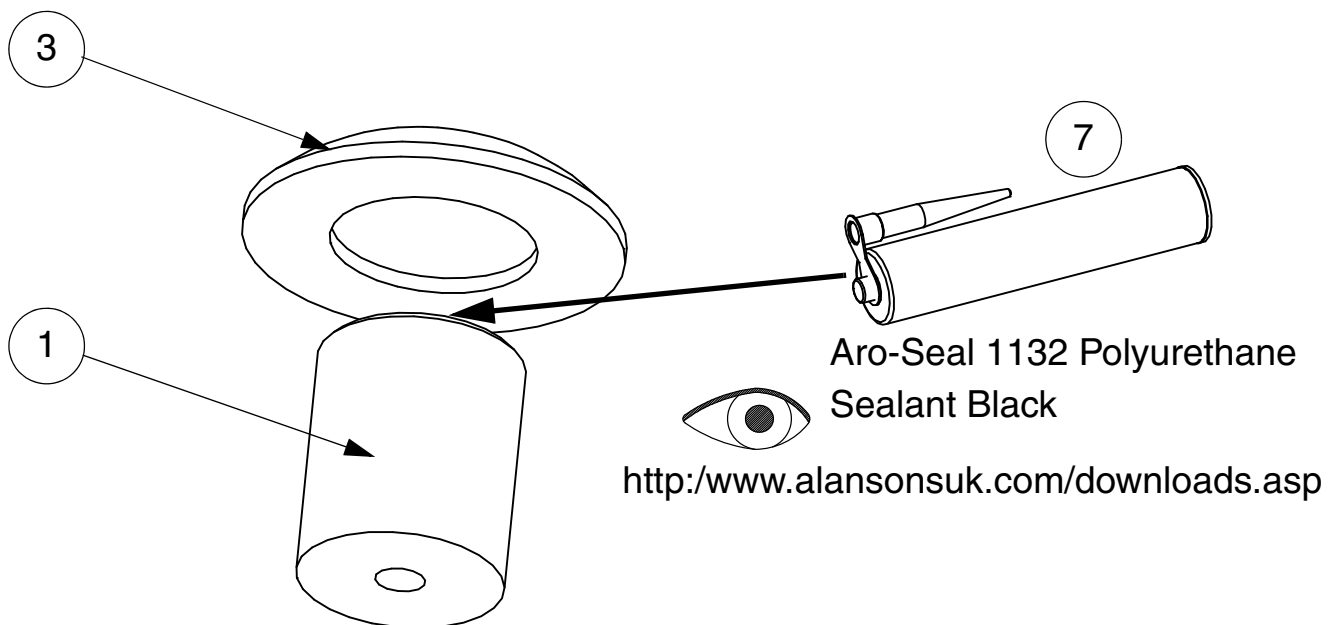
1 PARTS LIST

ITEM	REF		'H' mm	'L' mm	PCBOL200R	PCBOL200RE	PCBOL200B	PCBOL200BE	PCBOL300B	PCBOL300BE	PCBOL400R	PCBOL400RE	PCBOL500B	PCBOL500BE	ILMUSTOP
1	RYBL200		200		1										
	RYBL200B		200				1								
	RYBL300		300						1						
	RYBL400		400								1				
	RYBL500		500											1	
2	803702		420			1									
	803703		520					1							
	803704		620							1					
	803705		720											1	
3	ILMUSTOP														1
4	305802					1	1	1	1	1	1	1	1		
5	10251040	 M10 X 40				4	4	4	4	4	4	4	4		
6	10261000	 M10				4	4	4	4	4	4	4	4		
7	RYADHBK	 <b>Aro-Seal 1132 Polyurethane Sealant</b> <a href="http://www.alansonsuk.com/downloads.asp">http://www.alansonsuk.com/downloads.asp</a>			1										

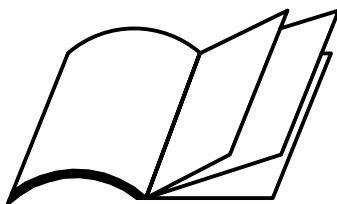




**FIG.3**



**FIG.4**



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## Appendix C:

### 1 SAFE WORKING PRACTISE

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.

#### 1.1 RISKS

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

#### 1.2 CONTROL MEASURES

- i) Warn the public of the risk of injury, by placing signs and fencing the surrounding area, before commencing installation.
- ii) All staff working on installation to wear suitable PPE including Toe Protective Shoes, Hard hat and Gloves.
- iii) Any staff or other persons on site, not working directly on the installation, to be kept away from the installation.
- iv) Ensure adequate personal and equipment are on site to handle and support the structure whilst it is being assembled.
- v) Ensure all personal have received training in the storage, use and disposal of the adhesive.

### 2 SPECIFICATIONS

SMP Playgrounds Ltd recommends an effective *Impact Absorbing Surface tested to EN1177 & BS7188* beneath this 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.

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

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.

### 3 PREPARATION

All equipment assembly and fixing must conform to EN1176.

**Tools:** Plumline, 5m tape measure, Spirit level.

#### 3.1 ESTABLISH ORIENTATION

- i) If two or more stepping stones are being installed in close proximity to each other to provide continuity of the play activity, the recommended gap between each stepping stone is 300mm. Care should however be taken to ensure that one stepping stone does not encroach into the potential fall area at the sides of the neighbouring stepping stone.

#### 3.2 MARK OUT HOLES

Consult SMP layout drawing for structure position on site.

See **page 4** for concrete foundation size.

**NOTE:** This is a minimum guide only.

### 3.3 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. Generally it is recommended that loose fill surfaces are installed to a depth of 300mm, however, with certain loose fill materials an alternative depth may be required. This will need to be determined by allowing 100mm for the dispersal in addition to the thickness required for the particular Free Fall Height. The foundation illustrated will allow for a thickness up to 300mm.

### PRE-INSTALLATION INSPECTION

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.

## 4 INSTALLATION & ASSY PROCEDURES

- i) Refer to site layout for position and orientation of product, then, mark the outline of the position of the footings with e.g. spray or chalk etc. Excavate the holes. **See page 4.**
- ii) Position support column (item 2) into excavation, pack up to height, level and plumb. **(FIG.1 & 2)**
- iii) Fill the hole with concrete to the required level, taking into account any Impact Absorbing Surfacing requirements. Ensure that the 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.

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 )

- iv) Keep installation off limits to the public until the concrete has completely cured. (Recommended initial curing time is 48 hours).
- v) Apply adhesive to support post (item 2) and slide step (item 1) onto post until fully home. (Refer to instructions provided with adhesive).
- vi) MUSHROOM TOP (ILMUSTOP) ONLY: Apply adhesive to the top face of the stepping stone (item1) and firmly press the mushroom top (item 3) into position. (Refer to instructions provided with adhesive).

## 5 POST INSTALLATION INSPECTION

CHECK	CHECK	✓
1 The unit is installed at the correct height.	<input type="checkbox"/>	<input type="checkbox"/>
2 No protruding sharp edges.	<input type="checkbox"/>	<input type="checkbox"/>
3 Paint work is not damaged.	<input type="checkbox"/>	<input type="checkbox"/>
4 Concrete foundations are secure.	<input type="checkbox"/>	<input type="checkbox"/>
5 Concrete has a water shed away from legs.	<input type="checkbox"/>	<input type="checkbox"/>
6 Rubber steps are secure.	<input type="checkbox"/>	<input type="checkbox"/>
7 Adequate provision of Impact Absorbing Surfacing with no obstructions or other hazards within the equipments falling space. If a grass surface has been selected, ensure it in good condition with no sharp stones or other contaminates.	<input type="checkbox"/>	<input type="checkbox"/>
8 Site is clear of all tools and rubbish.	<input type="checkbox"/>	<input type="checkbox"/>
9 Remove any warning signs.	<input type="checkbox"/>	<input type="checkbox"/>

