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Test report

No. TRHZP0906012/01

about the test of a technical equipment

Applicant: Proveedor Oficial de Mega Parques Infantiles
Proveedor Oficial de Mega Parques Infantiles
Proveedor Oficial de Mega Parques Infantiles

Order No.: QTHZP0906012

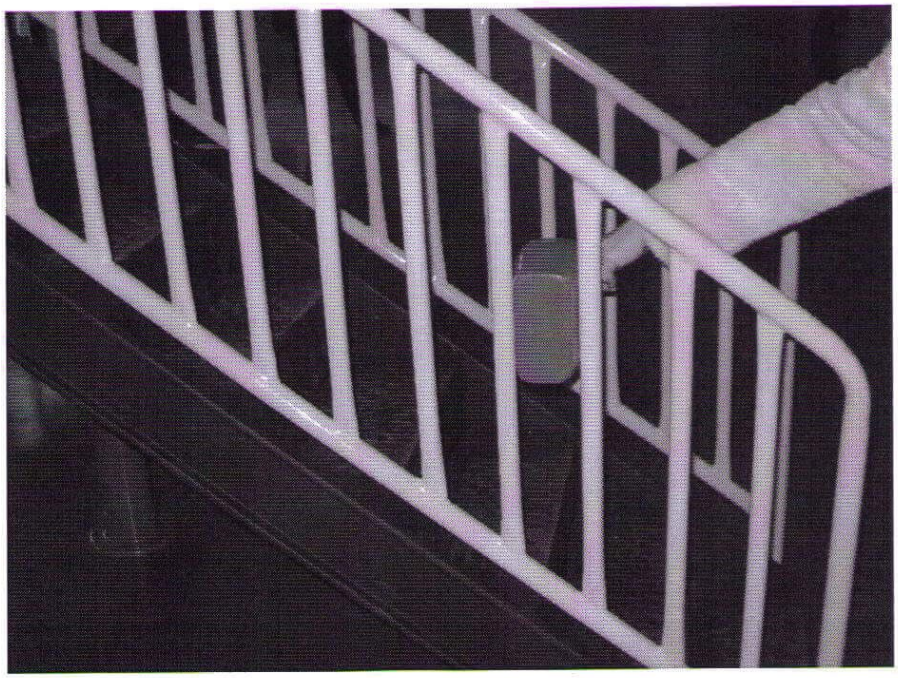
This report contains 2 text pages.

Designed: 08.02.2010 by: Shirlly Xue

Reviewed: 08.02.2010 by:

Testing Picture

Applicant: Proveedor Oficial de Mega Parques Infantiles
Product: Playground Equipment
Type: HD-021
Order No.: QTHZP0906012



Construction check (entrapment of head/neck)

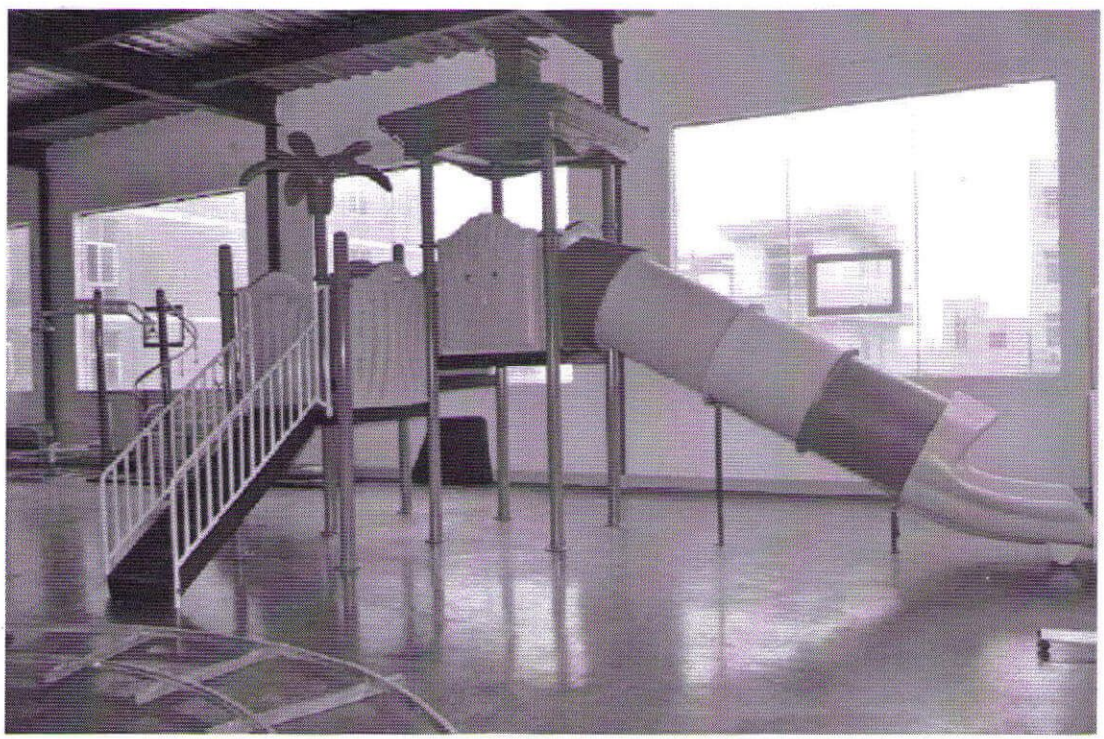
Applicant:	Proveedor Oficial de Mega Parques Infantiles Proveedor Oficial de Mega Parques Infantiles Proveedor Oficial de Mega Parques Infantiles
Reference/Equipment:	Playground Equipment Type: HD-021
Rating:	8,7 (L)X3,8(W)X4.8 (H)
Date of receipt:	23.11.2009
Type of examination:	GS licence test
Test regulations:	EN 1176-1:2008 EN 1176-3:2008
Testing Period:	23.11.2009-08.02.2010
Testing Location:	see applicant
Annex (No. of pages):	1. Pictures (3 pages) 2. Measuring and test results (49 pages+2 pages testing picture)
Test result:	The referenced units are in compliance with the above requirements.

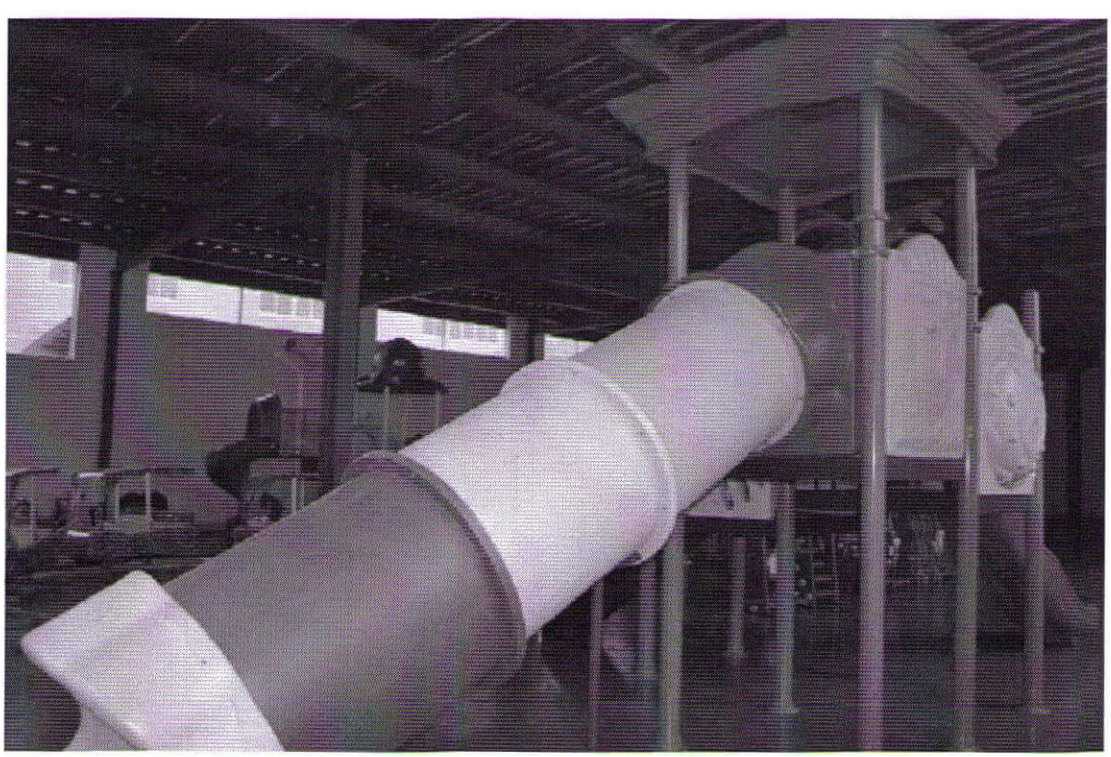
Load test

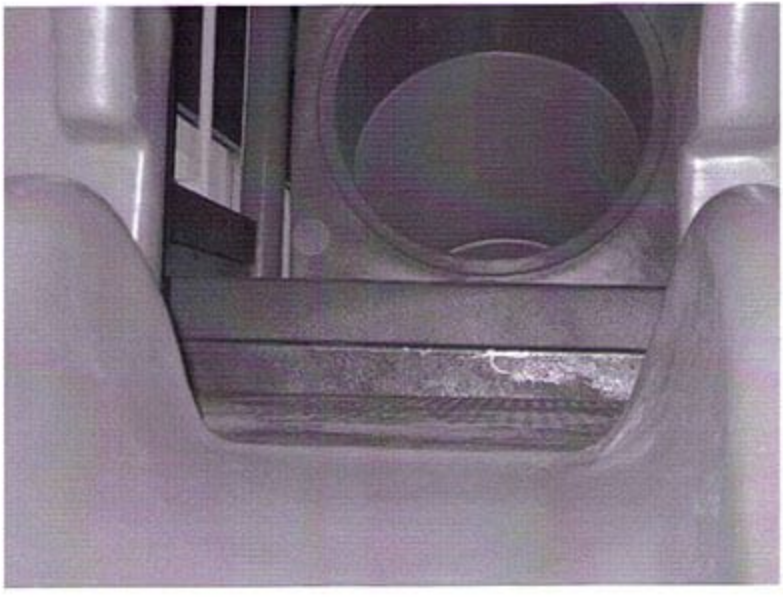
Load test

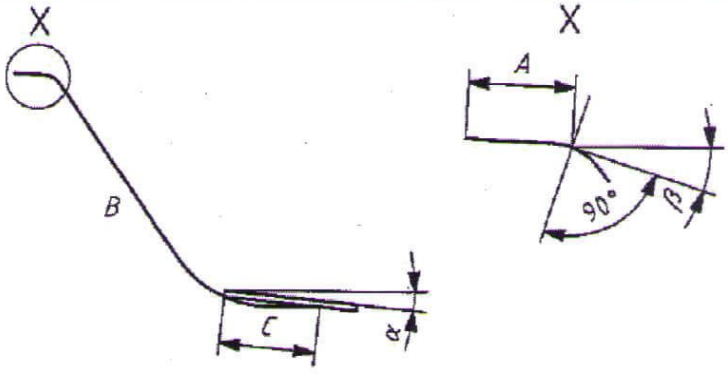
Product Picture

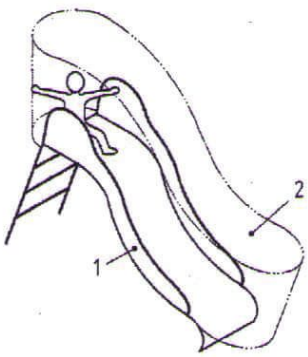
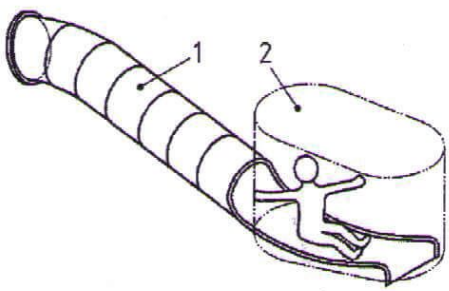
Applicant: Proveedor Oficial de Mega Parques Infantiles
Product: Playground Equipment
Type: HD-021
Order No.: QTHZP0906012

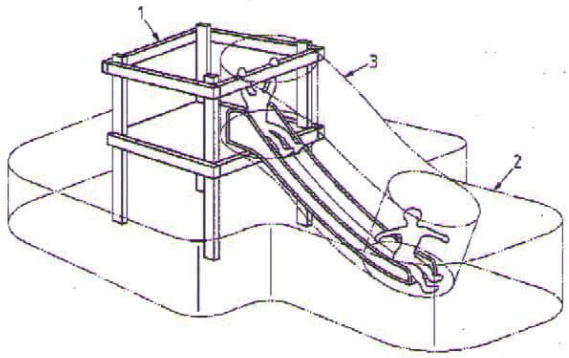
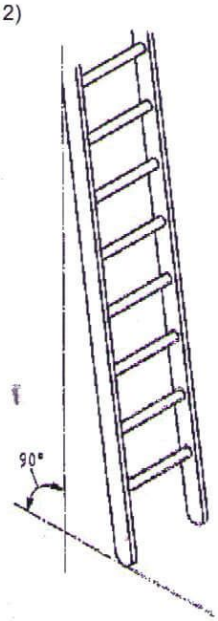


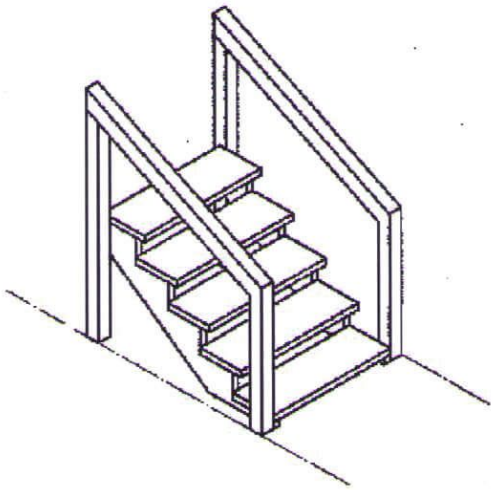
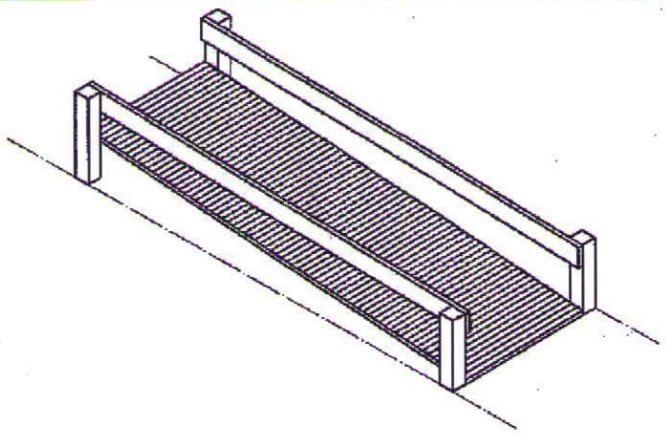


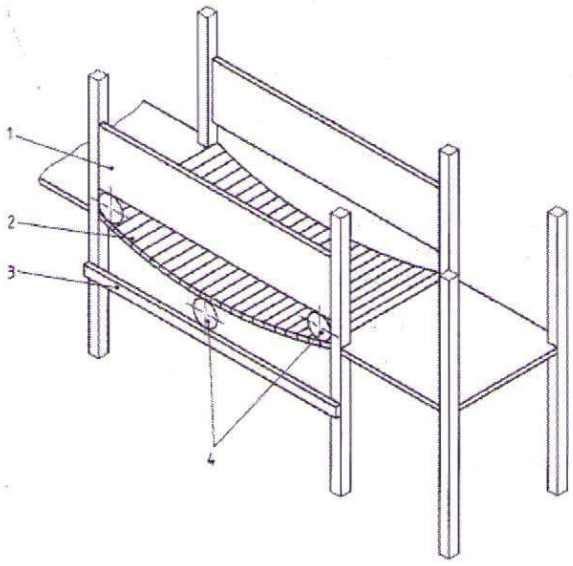


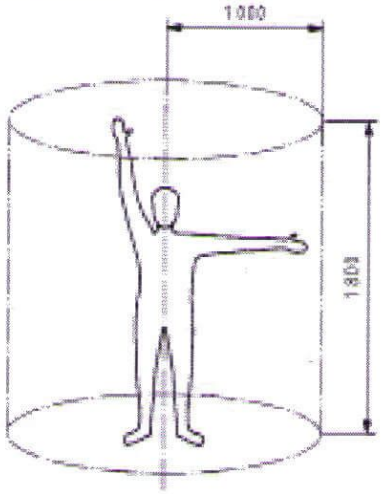
Nr.	Prüfpunkte	Erfüllt ja	nein	n.z.	Messwerte / Bemerkungen
	starting section. NOTE For attachment slides the platform may be used as a starting section.				
	 Key A starting section measured along the surface of the slide B sliding section measured along the surface of the slide C run-out section measured along the surface of the slide α maximum declination of the run-out section β maximum declination of the starting section Figure 2—illustration of the position of the sections of a slide				
4.3.2	**Guarding section** The starting section shall have a guarding section conforming to the barrier requirements of EN 1176-1 when one of the following applies: — the length of the starting section is more than 400 mm; — the starting section is easily accessible and has a free height of fall of more than 1000 mm; — the free height of fall of the starting section is more than 2000 mm. The guarding section shall either be a continuation of the lateral protection or be outside the plane of the lateral protection. When the guarding section is separate from or outside the plane of the lateral protection, the maximum vertical or horizontal offset shall be less than 89 mm. For attachment slides, the opening in the barrier shall be the same as the width of the starting section or guarding section. For attachment slides where all or part of the starting section is beyond the platform edge,	X			Attachment slides. Single slide: No start section. Projection section on the slide barrier used as a guarding section, which has a height of 500mm at some place. Tunnel slide: N/A. Enclosed section started from start section of the slide.

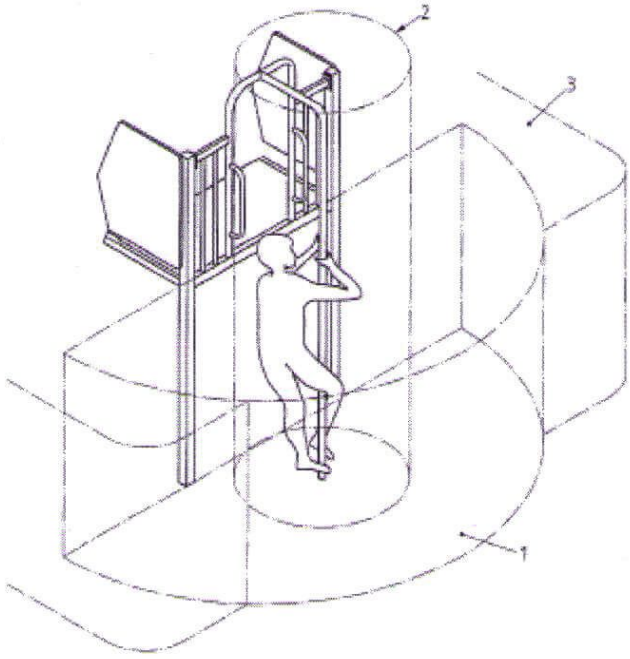
Nr.	Prüfpunkte	Erfüllt ja	nein	n.z.	Messwerte / Bemerkungen
	1176-1, e.g. entrapment. Central supporting posts on spiral slides may be used in the free space. For open spiral slides, the height of the free space shall be 1000 mm minimum (see EN 1176-1:2008, 4.2.8.2.3). In the case of multi-track slides, the free spaces may overlap.  **a) Non-tunnel slide**  **b) Tunnel slide** Key 1 space occupied by the equipment 2 free space Figure 8— Examples of the free space of slide				
4.8	**Impact area** In addition to the requirements given in EN 1176-1, the impact area shall be provided to a distance of at least 1 000 mm to the sides of the run-out section. The impact area shall be provided to a distance of at least 2 000 mm beyond the required run-out section for type 1 and 1 000 mm beyond the end of the required run-out section for type 2 (see Figure 9). NOTE The required run-out section is as calculated in accordance with 4.5, Table 2. The surface around the run-out section shall have critical fall height of at least 1 000 mm.	X			Instructed in the user manual.

Nr.	Prüfpunkte	Erfüllt ja	nein	n.z.	Messwerte / Bemerkungen
	 **Key** 1 space occupied by equipment 2 falling space 3 free space **Figure 1 — Spaces**				
3.8	**minimum space** space required for the safe use of equipment, comprising falling space, free space and space occupied by The equipment	X			
3.9	**collective use** use by more than one user at the same time	X			
3.10	**crushing point** place where parts of the equipment can move against each other, or against a fixed area so that persons, or parts of their body, can be crushed	X			
3.11	**shearing point** place where part of the equipment can move past a fixed or other moving part, or past a fixed area so that persons, or parts of their body, can be cut	X			
3.12	**ladder** means of access incorporating rungs or steps on which a user can ascend or descend with the ad of the hands(see Figure 2)  **Figure 2 — Example of a ladder**	X			

Nr.	Prüfpunkte	Erfüllt			Messwerte / Bemerkungen
		ja	nein	n.z.	
3.13	**stairs** means of access incorporating treads on which a user can ascend or descend (see Figure 3)  **Figure 3 — Example of stairs**	X			
3.14	**ramp** means of access incorporating an inclined surface on which a user can ascend or descend (see Figure 4 and 4.2.9.3 first sentence) NOTE For maximum inclination see 4.2.9.3	X			
	 **Figure 4 — Example of a ramp**				
3.15	**grip** holding of the hard round the entire circumference of a support (see Figure 5)	X			

Nr.	Prüfpunkte	Erfüllt ja	Erfüllt nein	Erfüllt n.z.	Messwerte / Bemerkungen
	2) if accessible at a position of 600 mm or more above ground when tested in accordance with D.2.2, depending on the angular orientation range of the opening (see Figure D.4), shall conform to the following; – Range 1; (template centre tine ± 45° from vertical); when the template apex contacts the base of the opening, the depth of the opening shall be less than the Length of the template to the underside of the shoulder section. – Range 2: (template centre line from horizontal to + 45°); when the template apex contacts the base of the opening, the depth of the opening shall be less than the 'A' portion of the template. If the depth of the opening is greater than the 'A' portion of the template all parts of the opening above the 'A' portion shall also allow insertion of the shoulder section of the template or probe D. — Range 3: No template test requirements,				
	c) Other openings (e.g. shearing or moving openings): Non-rigid members (tor exam pie ropes) shall not overlap If, by doing so, they create openings that do not conform to the requirements for completely bound openings Openings between the flexible parts of suspended bridges and any rigid side members shall be not less than 230 mm in diameter under the worst case condition of Loading (see 4.2.2). Both loaded and unloaded situations shall be considered, NOTE This requirement relates to the potential change in dimensions as a result of the stretching of bridge flexible supports (e.g. wire) over time, A typical suspended bridge Is illustrated in Figure 12.	X			
	 Key 1 rigid side members 2 suspended bridge 3 rigid side members 4 diameter 230 mm minimum **Figure 12 — Suspended bridge**				
4.2.7.3	**Entrapment of clothing/hair** Equipment should be constructed so that hazardous situa-	X			Checked according to D.3, the result is ok.

Nr.	Prüfpunkte	Erfüllt ja	nein	n.z.	Messwerte / Bemerkungen
	 **b) Standing user** **Figure 16 — Cylindrical space** NOTE 2 In certain cases, the dimensions of The tree space can be altered. In some cases, these will be given in the parts of this standard covering individual types of equipment.	X			
	Table 3 — Dimensions of the cylinder for the determination of the free space Dimensions in millimetres Type of use / Radius / Height Standing / 1 000 / 1 800 Sitting / 1 000 / 1 500 Hanging / 500 / 300 above and 1 800 below hanging grip position NOTE In case of hanging, s = 300 mm because of the possibility that the users pull themselves up (see Fig 16a)).				
4.2.8.2.4	**Extent of the impact area** Dimensions of the impact area are shown in Figure 17. In certain cases, such as a carousel giving the user a horizontal speed, the impact area may be extended to provide adequate protection against falling injuries. In determining the impact area the possible movements of the equipment and the user shall be taken into account. NOTE These cases are also covered in the parts of this standard covering individual types of equipment.	X			Instructed in user manual.

Nr.	Prüfpunkte	Erfüllt ja	nein	n.z.	Messwerte / Bemerkungen
	 Key 1 falling space of the fireman's pole 2 free space of the fireman's pole 3 falling space of platform Figure 19 — Example of falling space and free space of a fireman's pole				
4.2.8.3	**Protection against injuries in the free space for users undergoing a movement that is forced by the equipment** Unless stated otherwise, there shall be no overlapping of adjacent free spaces, or of free space and falling space. NOTE 1 This requirement does not apply to the common space between pieces of equipment in a cluster. The free space shall not contain any obstacles that interfere with the passage of a user whilst undergoing a forced movement e.g. tree branches, ropes, cross beams etc. Parts of the equipment bearing or containing the user, or helping the user to keep balance, shall be permitted within the free space, e.g. a platform with a fireman's pole (see 4.2.8.2.3). NOTE 2 Exceptions to this requirement are given in the parts of this standard covering individual types of equipment The free space shall not be intersected by main travelling routes at, or through, the playground (e.g. pedestrian pathway).	X			
4.2.8.4	**Protection against injuries in the falling space** The falling space shall not contain any obstacles onto which a user could fall and cause injuries, e.g. posts not flush with adjacent pails or exposed foundations (see 4.2.14). NOTE 1 The intention of this requirement is not to protect the user from minor knocks or bumps that might lead to a bruise or sprain etc., as these types of injuries are possible in all situations. The following parts of play structures may be in the falling space:	X			