LTD KENGURU PRO
Outdoor Fitness Equipment

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Installation instructions K- Series

- K-001 French triple push-up bar
- K-002 Classic two-level monkey bar
- K-003 Classic two-level monkey bars and 6 pull-up bars
- K-004 Monkey bars - snake, wall bars, four pull-up bars of classic hold and one pull-up bar with hold unclassic hold
- K-005 Wave bar
- K-006 Swedish wal
- K-007 Classic pull-up bars
- K-008 Low parallel bars
- K-009 Double parallel bars for press-up with different levels
- K-010 Standard parallel bars
- K-011 Workout desk
- K-012 Cascade from five pull-up bars and a bench for abs
- K-013 KENGURU Standard
- K-014 Double pull-up bar
- K-015 Bench
- K-016 Triangular pull-up bar
- K-017 Double triangular pull-up bar
- K-018 Double parallel bars
- K-019 Abs bench and 2 crossbars
- K-020 Workout columns
- K-021 KENGURU New
- K-022 KENGURU Super

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Underground

Concrete, stone or asphalt undergrounds are NOT licit with units that have a drop height of >60cm (see DIN 79000:2012-05 table 2).
Before the installation you have to decide on which underground the equipment will be installed. Possible undergrounds are (more precisely defined in DIN 79000:2012-05 table 2):

- Hard surface - concrete/stone/asfalt
- Lawn
- Shock Absorbing underground according to DIN EN 1177
- Loose material:
  - ✓ Sand - fraction 0.2...2.5 mm
  - ✓ Gravel - fraction 2.0...8.0 mm
  - ✓ Mulch - fraction 20 ...80 mm
  - ✓ Wood chips - fraction 5...30 mm

According to DIN 79000:2012-05 table 2:

Type	*Drop height*	*Hard surface*	*Lawn*	*Shock absorbing underground (according to drop height)*	*Loose material**
K-001	***<1.3m***	**-**	**+**	**+**	**+**
K-002	***<2.4m***	**-**	**-**	**+**	**+**
K-003	***<2.4m***	**-**	**-**	**+**	**+**
K-004	***<2.4m***	**-**	**-**	**+**	**+**
K-005	***<2.3m***	**-**	**-**	**+**	**+**
K-006	***<2.2m***	**-**	**-**	**+**	**+**
K-007	***<2.5m***	**-**	**-**	**+**	**+**
K-008	***<1.1m***	**-**	**+**	**+**	**+**
K-009	***<1.3m***	**-**	**+**	**+**	**+**
K-010	***<1.3m***	**-**	**+**	**+**	**+**
K-011	***<1.0m***	**-**	**+**	**+**	**+**
K-012	***<2.4m***	-	-	+	+

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Type	*Drop height*	*Hard surface*	*Lawn*	*Shock absorbing underground (according to drop height)*	*Loose material**
K-013	*<2.4m*	-	-	+	+
K-014	*<2.4m*	-	-	+	+
K-015	*<0,5m*	+	+	+	+
K-016	*<2.3m*	-	-	+	+
K-017	*<2.4m*	-	-	+	+
K-018	*<1.1m*	-	+	+	+
K-019	*<2.1m*	-	-	+	+
K-020	*<2.0m*	-	-	+	+
K-021	*<2.4m*	-	-	+	+
K-022	*<2.4m*	-	-	+	+

*We advise against the use of sand or coarse gravel

General information for installing

The underground has a thickness of 200mm (see figure (a). The foundation is created 200mm below ground level.
If you use loose material like sand, gravel, mulch or wood chips, then you have to built the foundation 200mm below ground level and bevel the foundation around the steel tube (see figure (a). The beveling prevents that parts of the foundation will poke out when the filling material has been ablated because of usage.

Foundation construction detailed plans, see technical sheets for K-001 – K-022

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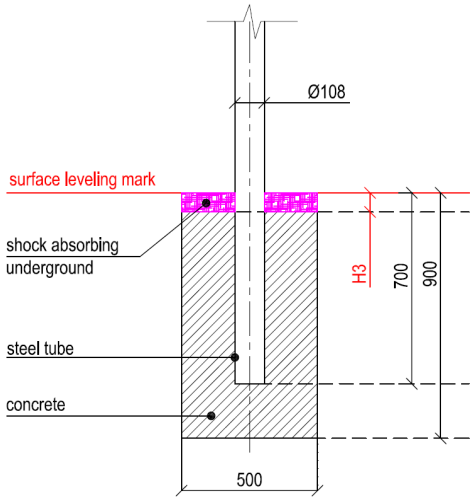
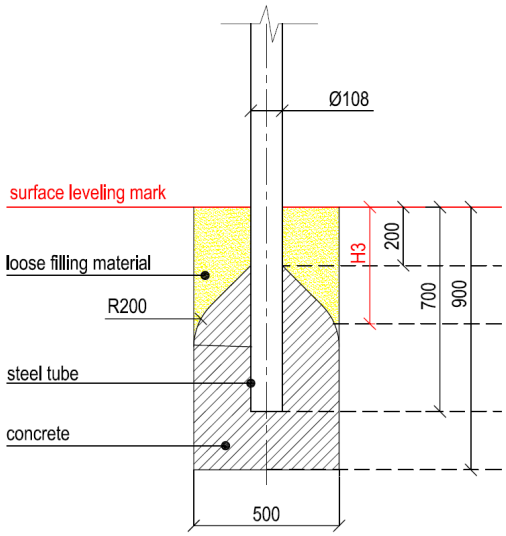
Foundation when using Shock absorbing underground (syntethic – rubber granulates) Figure (b)	Beveling of foundation when using loose filling material Figure (a)
	

H3	Drop height	H3	Drop height
40 mm	> 1.2.....1.4 m	20 cm	< 1.0 m
50 mm	> 1.5.....1.7 m	30 cm	< 2.0 m
60 mm	> 1.8.....2.0 m	40 cm	< 3.0 m
70 mm	> 2.1.....2.5 m		

Please note

Choose a suitable underground for the unit (see page 2, table 2)!

The size of the hole for the foundation is depending on the consistency of the ground. The dimensions mentioned above and in technical drawings for K-001 – K-022 are applicable for normal conditions with firm ground. If the ground is extremely soft, a much bigger foundation is needed.

Use only appropriate material and follow the installation instructions closely!!!