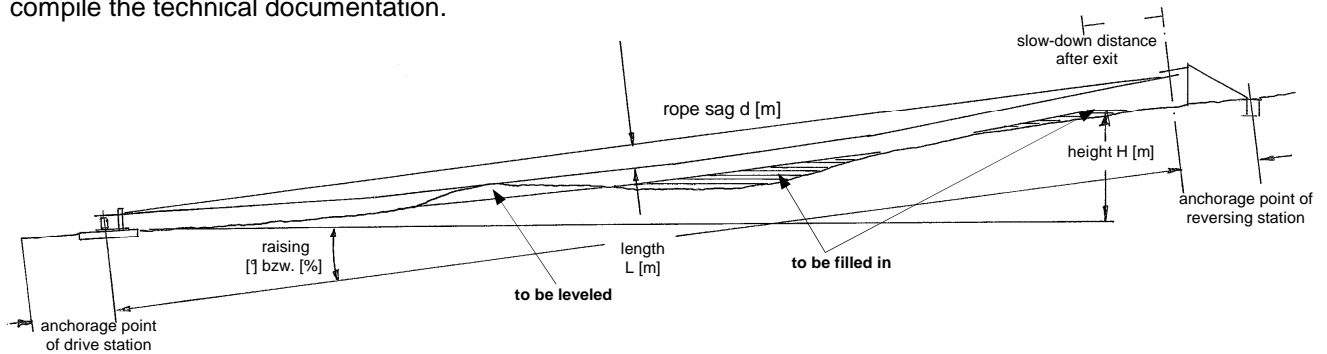




Multi lifts do not have any intermediate supports. In order to ensure a proper function of the Multi lift the slope must be constituted in such a manner that the rope always runs waist-high between drive and reversing station (approx. 0,9 to 1,5 m / 3 to 5 ft). As the rope of the lift will sag between the two stations, the ideal slope must sag slightly to match the sag of the rope.

In order to guarantee such proper lift operation it is necessary to measure the slope profile according following instructions and to send the chart back to us. Based on these values we will be able to determine the proper power requirement of the drive unit and establish a detailed offer. We will also draw a profile of the slope on a scale of 1:500 including instructions for ground works, if necessary, anchorage points and become able to compile the technical documentation.



**1. Required tools**

For the slope measurement you need a straight board of exactly 2,5 m (8ft), a carpenters level, a yard stick, a notepad and pencil and two people.

**2. Selection of the terrain**

length L (m)		rope sag for Multi Lift 4-20 KW 5 kN rope tension So		rope sag for Kindergartenslift 2,2 KW 3,5 kN rope tension So	
L [m]	L [ft]	d [m]	d [ft]	d [m]	d [ft]
60	197	0,2	0,7	0,3	1,0
100	328	0,6	2,0	0,9	3,0
120	394	0,9	3,0	1,3	4,3
160	525	1,6	5,3		
200	656	2,5	8,2		
260	853	4,2	13,8		
300	984	5,6	18,4		
360	1181	8,0	26,2		

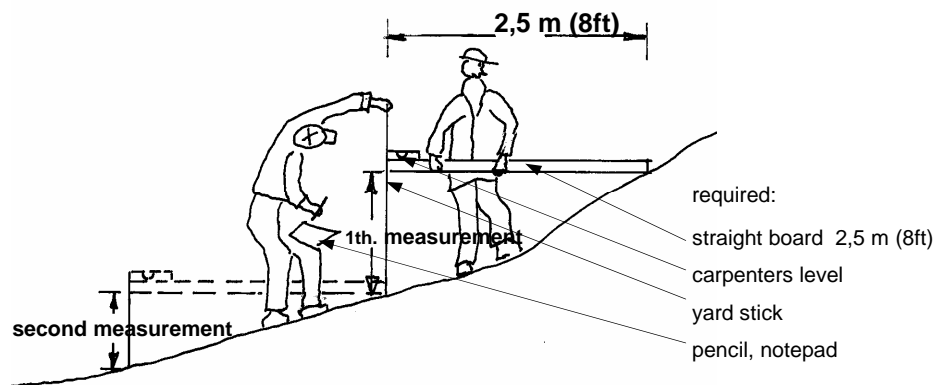
each ± 10%

First select an area suited as a lift location which shows the least possible earth unevenness and which approximates slight sag of the rope at mid-point according to the chart on the left. It might be helpful to stretch a regular rope over the slope length to get an approximation of the real rope.

**3. Measurement of the slope**

**Please start measuring the slope at a point 20 m (65 ft) above the location you have selected for the reversing station (top station).**

Place a 2,5 m (8ft) board on the ground with the carpenter level lying on top. Lift up the downhill end until the board is level. Place the yard stick perpendicular to the board. Measure the height from the elevated end to the ground. The result should be recorded as measurement 2,5 = ... (cm or ft) on the back of this sheet. Move the board downhill, measure the next 2,5 m (8 ft) and record this second measurement as 5,0 = ... (cm or ft).



**Continue downhill the same way, finish at a point 10 m (33 ft) to 20 m (65 ft) behind the location you have selected as drive station and send the filled out chart back to us.**



**Multi Skiliftbau GmbH**  
**Quality Management**  
**SLOPE MEASUREMENT**

Formular: 032  
Revision: 00  
Rev.-Datum: 07.03.06  
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**Values of measurement [cm or ft, please mark]**  
(measured with a 2,5m (8ft) board  $\emptyset$  from top to bottom):

Meter:	[cm or ft]	Meter:	[cm or ft]	Meter:	[cm or ft]	Meter:	[cm or ft]
2,5 =		102,5 =		202,5 =		302,5 =	
5,0 =		105,0 =		205,0 =		305,0 =	
7,5 =		107,5 =		207,5 =		307,5 =	
10,0 =		110,0 =		210,0 =		310,0 =	
12,5 =		112,5 =		212,5 =		312,5 =	
15,0 =		115,0 =		215,0 =		315,0 =	
17,5 =		117,5 =		217,5 =		317,5 =	
20,0 =		120,0 =		220,0 =		320,0 =	
22,5 =		122,5 =		222,5 =		322,5 =	
25,0 =		125,0 =		225,0 =		325,0 =	
27,5 =		127,5 =		227,5 =		327,5 =	
30,0 =		130,0 =		230,0 =		330,0 =	
32,5 =		132,5 =		232,5 =		332,5 =	
35,0 =		135,0 =		235,0 =		335,0 =	
37,5 =		137,5 =		237,5 =		337,5 =	
40,0 =		140,0 =		240,0 =		340,0 =	
42,5 =		142,5 =		242,5 =		342,5 =	
45,0 =		145,0 =		245,0 =		345,0 =	
47,5 =		147,5 =		247,5 =		347,5 =	
50,0 =		150,0 =		250,0 =		350,0 =	
52,5 =		152,5 =		252,5 =		352,5 =	
55,0 =		155,0 =		255,0 =		355,0 =	
57,5 =		157,5 =		257,5 =		357,5 =	
60,0 =		160,0 =		260,0 =		360,0 =	
62,5 =		162,5 =		262,5 =		362,5 =	
65,0 =		165,0 =		265,0 =		365,0 =	
67,5 =		167,5 =		267,5 =		367,5 =	
70,0 =		170,0 =		270,0 =		370,0 =	
72,5 =		172,5 =		272,5 =		372,5 =	
75,0 =		175,0 =		275,0 =		375,0 =	
77,5 =		177,5 =		277,5 =		377,5 =	
80,0 =		180,0 =		280,0 =		380,0 =	
82,5 =		182,5 =		282,5 =		382,5 =	
85,0 =		185,0 =		285,0 =		385,0 =	
87,5 =		187,5 =		287,5 =		387,5 =	
90,0 =		190,0 =		290,0 =		390,0 =	
92,5 =		192,5 =		292,5 =		392,5 =	
95,0 =		195,0 =		295,0 =		395,0 =	
97,5 =		197,5 =		297,5 =		397,5 =	
100,0 =		200,0 =		300,0 =		400,0 =	