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19.08.2014	TD WI 001 DE	

Distributor: Ing. Erharter Klaus

Noise Measurement:

GD10 Raintal

1. Location of measurement:

The measurements were performed on the 2nd of March 2020 on the installation GD10 Raintal (Kitzbühel, Austria)

2. Purpose of measurement:

The measurements are used for a general assessment of the noise development for cable transport systems.

3. Execution of measurement:

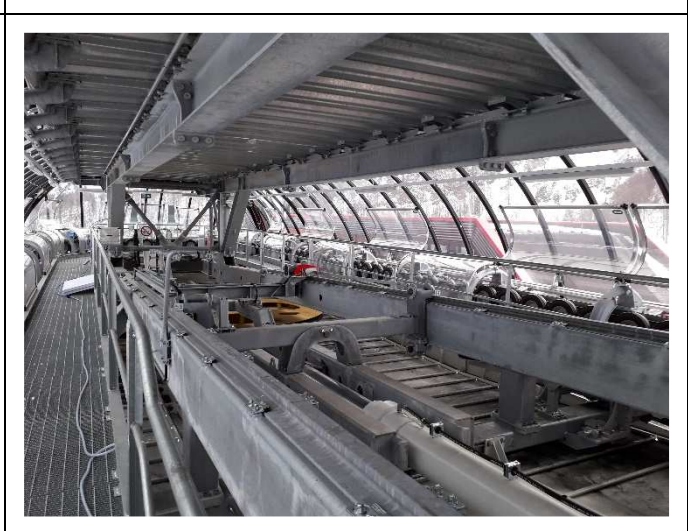
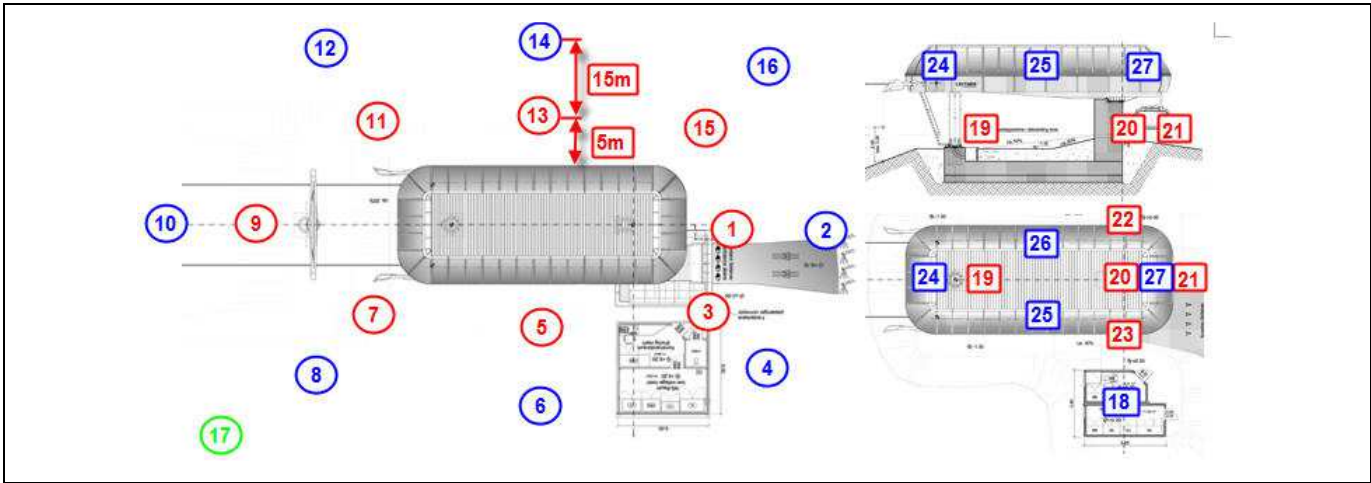
The measuring points are shown in the following sketches. In the bottom station, the first tower is regarded as part of the station (already considered in the sketches).

- Measuring height ca. 1,2 m
- Measuring time 30 seconds
- Sound analyzer Brüel&Kjaer type 2250
- Installation speed 6m/s
- Distance between carriers 138m
- Distance categories 5 m and 20 m (marked in the sketches; possible distance deviations are marked red in the tables)
- Measurement of a control point at a distance of 50 m (no. 17). This measuring point can be chosen freely to ensure it is easily accessible.

Weather conditions	
Weather	30km/h wind (direction from mountain to valley)
Snow conditions	hard snow
Umgebungstemperatur	-2,4°C

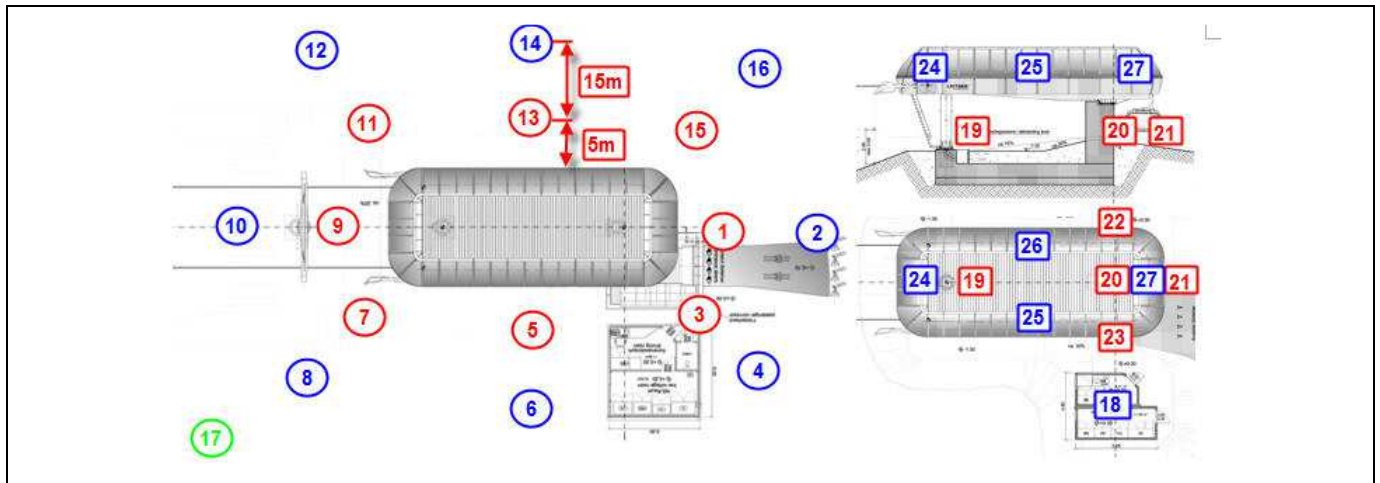
Date: 03.03.2020	Issued: Staudacher Andreas	Rev.: 00	Test Nr.: TR 14 200220	File: TR 14 200220 Lärmmessung GD10 Raintal_EN.docx
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4. Measuring points:
 Measuring points bottom station:
 The tower is considered as part of the station and included in the measurement.



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Measuring points top station:



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5. Evaluation:

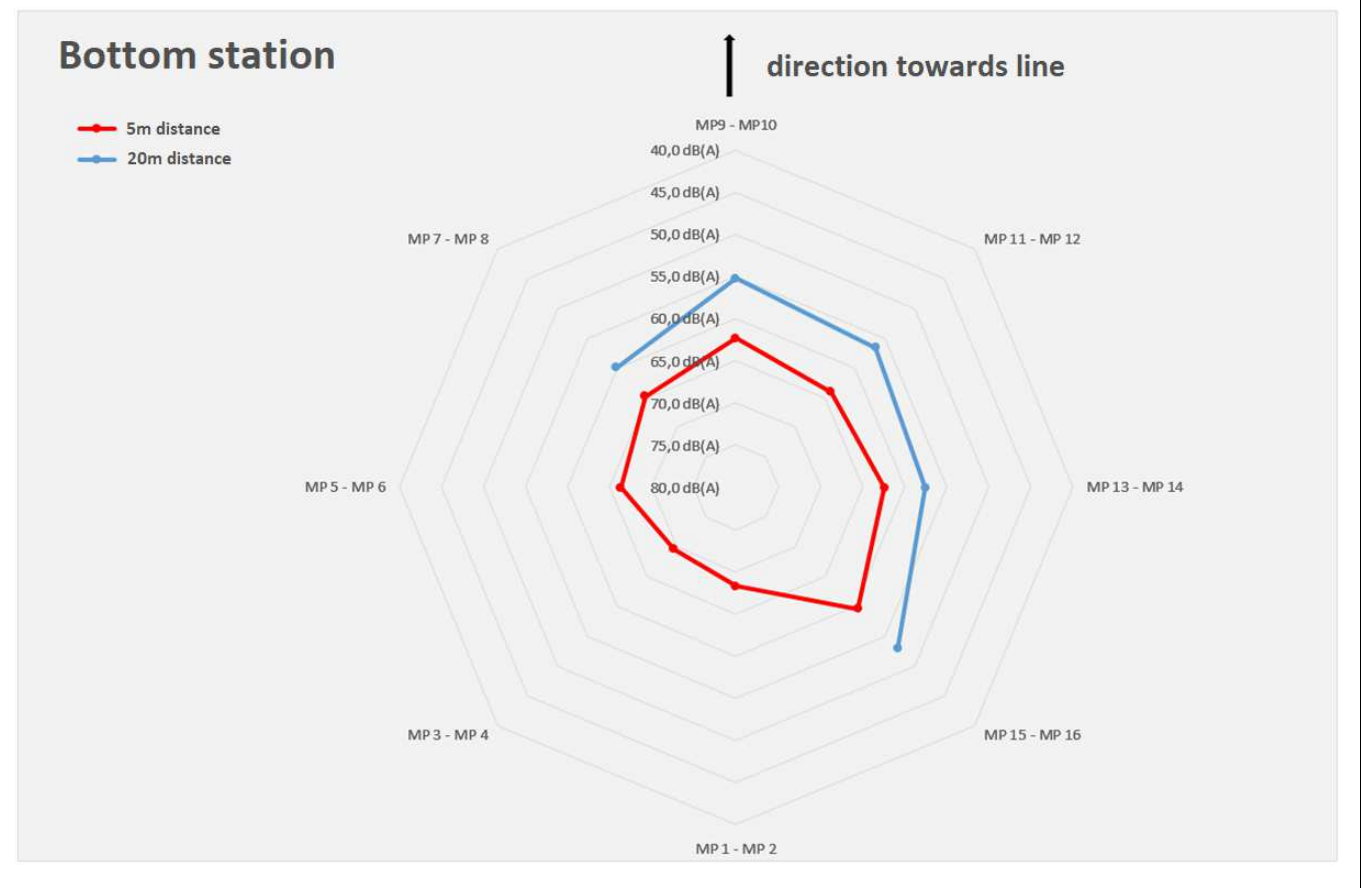
In the following tables the equivalent continuous sound pressure level (LAeq: level A-weighted equivalent) for the above mentioned measuring points is given:

Measuring data bottom station:

distance [m]	measuring points	[LAeq]	measuring points	[LAeq]
5	MP 1	68,3	MP 17	42,3
	MP 3	69,6	MP 18	53,5
	MP 5	66,3	MP 19	65,9
	MP 7	64,8	MP 20	69,5
	MP 9	62,3	MP 21	66,8
	MP 11	64,0	MP 22	67,6
	MP 13	62,4	MP 23	67,2
	MP 15	59,5	MP 24	79,3
20	MP 2		MP 25	78,7
	MP 4		MP 26	78,7
	MP 6		MP 27	75,5
	MP 8	59,9		
	MP 10	55,2		
	MP 12	56,6		
	MP 14	57,5		
	MP 16	52,9		

EMISSION SOURCE:

Installation type	GD10
Year of construction	2018
Bottom station	return – tension
Type of covering	high (fully covered)
Drive	-
Nominal speed	6 m/s
Inclined length	1.300 m
Vertical rise	505 m
Type of carrier	10-persons cabin

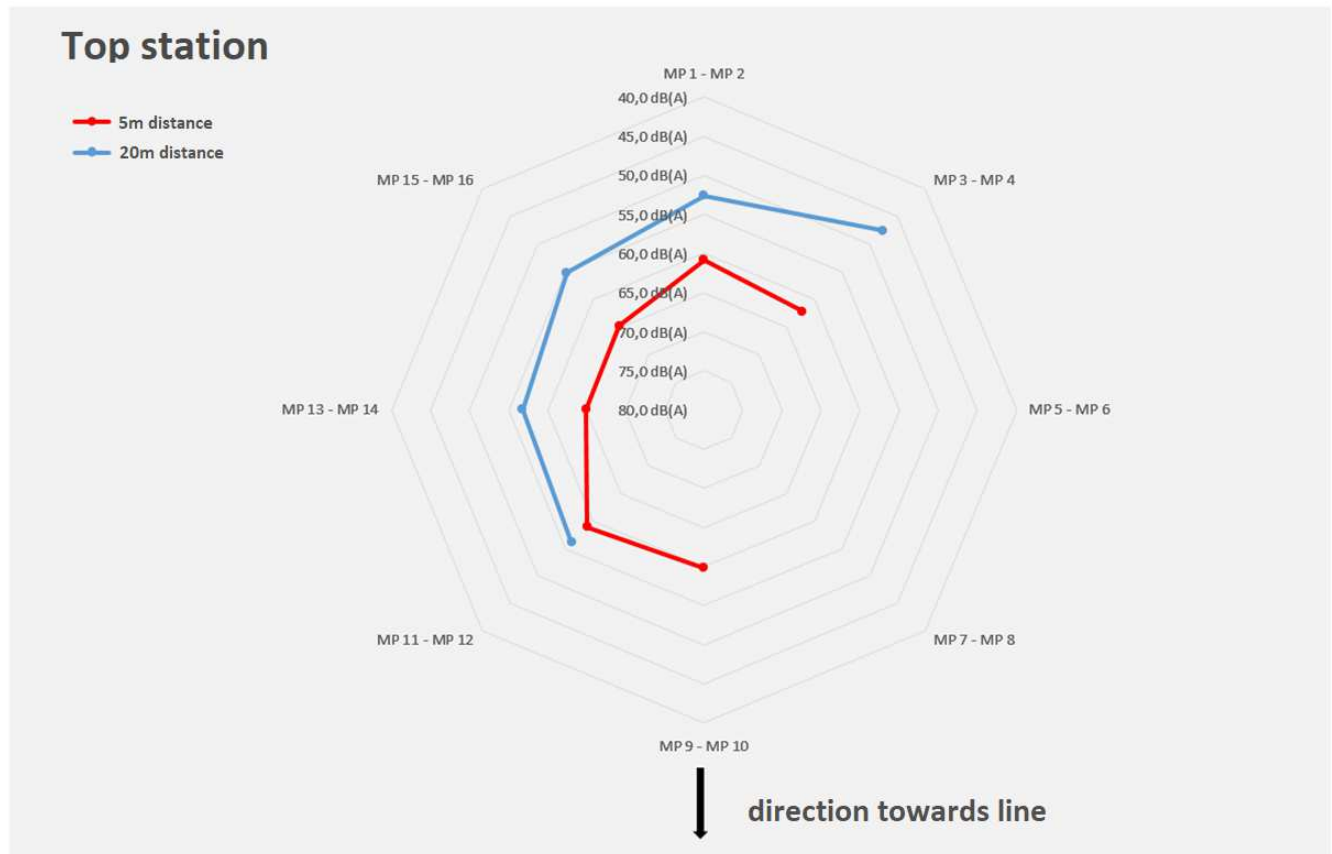


Measuring data top station:

distance [m]	measuring points	[LAeq]	measuring points	[LAeq]
5	MP 1	60,8	MP 17	49,0
	MP 3	62,2	MP 18	44,0
	MP 5		MP 19	64,0
	MP 7		MP 20	66,1
	MP 9	59,8	MP 21	65,8
	MP 11	58,9	MP 22	65,8
	MP 13	64,9	MP 23	67,3
	MP 15	64,7	MP 24	79,6
20	MP 2	52,6	MP 25	79,2
	MP 4	47,6	MP 26	78,5
	MP 6		MP 27	75,2
	MP 8			
	MP 10			
	MP 12	56,1		
	MP 14	56,8		
	MP 16	55,2		

EMISSION SOURCE:

Installation type	GD10
Year of construction	2018
Bottom station	drive – fixed
Type of covering	high (fully covered)
Drive	DirectDrive LD6
Nominal speed	6 m/s
Inclined length	1.300 m
Vertical rise	505 m
Type of carrier	10-persons cabin



Test department:
 Staudacher Andreas

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