

## Stringing Chart Report

Section #56 from structure #76 to structure #80, start set #7 'ZL', end set #7 'ZL'

Cable 'O:\PROLinCZPHA\22129\_TR Řířov-rek\_R110KV\PLS\lana\opgw\_2s 2 24 M167\_R91-228', Ruling span (m) 301.353

Sagging data: Catenary (m) 1253, Horiz. Tension (N) 8633.17 Condition I Temperature (deg C) -5

Weather case for final after creep 80°C, Equivalent to 25.1 (deg C) temperature increase

Weather case for final after load 40°C, Equivalent to 0.1 (deg C) temperature increase

Results below for condition 'Initial FE'

Calculations done using actual span lengths and vertical projections

+ Span From + + Span To +			+ Span			Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Left	Span	
Str.	Set	Ph.	Str.	Set	Ph.	Length	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Struct	Vertical	
							Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	Projection	
						(m)	-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C		(m)
76	7	1	77	7	1	320.8	9.82	9.98	10.14	10.30	10.47	10.63	10.78	10.94	11.09	11.23	11.38	11.53	11.67	11.81	11.95	76	24.27
77	7	1	78	7	1	272.1	6.98	7.11	7.25	7.39	7.53	7.66	7.80	7.93	8.06	8.19	8.32	8.44	8.57	8.69	8.82	77	3.55
78	7	1	79	7	1	350.8	11.71	11.91	12.10	12.29	12.50	12.69	12.87	13.05	13.23	13.40	13.57	13.74	13.90	14.06	14.22	78	-9.19
79	7	1	80	7	1	159.8	2.36	2.42	2.48	2.55	2.62	2.68	2.75	2.82	2.90	2.97	3.05	3.13	3.21	3.29	3.37	79	4.01

+ Span From	+ Span To	+ Span	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Str.	Set	Ph.	Str.	Set	Ph.	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
						-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C
						(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)
76	7	1	77	7	1	9061	8912	8769	8633	8493	8368	8248	8133	8023	7916	7814	7715	7620	7528	7440
77	7	1	78	7	1	9143	8965	8795	8633	8468	8320	8178	8042	7912	7787	7667	7551	7441	7334	7231
78	7	1	79	7	1	9069	8916	8771	8633	8491	8366	8246	8132	8022	7918	7818	7723	7632	7545	7461
79	7	1	80	7	1	9332	9090	8858	8633	8405	8195	7990	7791	7596	7406	7221	7040	6865	6693	6527

## Stringing Chart Report

**Section #57 from structure #80 to structure #81, start set #7 'ZL', end set #7 'ZL'**

**Cable 'O:\PROlinCZPHA\22129\_TR Řípov-rek\_R110KV\PLS\lana\opgw\_2s 2 24 M167\_R91-228', Ruling span (m) 177.948**

Sagging data: Catenary (m) 1200, Horiz. Tension (N) 8268 Condition I Temperature (deg C) -5

Weather case for final after creep 80°C, Equivalent to 25.1 (deg C) temperature increase

Weather case for final after load 40°C, Equivalent to 0.1 (deg C) temperature increase

Results below for condition 'Initial FE'

Calculations done using actual span lengths and vertical projections

+ Span From + + Span To +			Span	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Left	Span	
Str.	Set	Ph.	Str.	Set	Ph.	Length	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Struct	Vertical	
							Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	Projection	
							-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	
						(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	
80	7	1	81	7	1	178.3	2.93	3.06	3.19	3.31	3.44	3.57	3.69	3.81	3.92	4.04	4.15	4.26	4.37	4.48	
																				80	10.49

+ Span From	+ Span To	+ Span	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Str. Set Ph.	Str. Set Ph.		Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
			-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C			
			(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)
80	7	1	81	7	1	9345	8952	8595	8268	7957	7683	7431	7198	6982	6783	6597	6425	6263	6112	5971

## Stringing Chart Report

**Section #58 from structure #81 to structure #82, start set #7 'ZL', end set #7 'ZL'**

**Cable 'O:\PROlinCZPHA\22129\_TR Řípv-rek\_R110KV\PLS\lana\opgw\_2s 2 24 M167\_R91-228', Ruling span (m) 287.497**

Sagging data: Catenary (m) 1190, Horiz. Tension (N) 8199.1 Condition C Temperature (deg C) -5

Weather case for final after creep 80°C, Equivalent to 25.1 (deg C) temperature increase

Weather case for final after load 40°C, Equivalent to 0.1 (deg C) temperature increase

Results below for condition 'Initial FE'

Calculations done using actual span lengths and vertical projections

+ Span From + + Span To +			Span	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Left	Span			
Str.	Set	Ph.	Str.	Set	Ph.	Length	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Struct	Vertical			
							Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	Projection			
						-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C			
						(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)			
81	7	1	82	7	1	287.8	7.49	7.64	7.80	7.95	8.12	8.27	8.41	8.56	8.71	8.85	8.99	9.13	9.27	9.41	9.54	81	12.33

+ Span From	+ Span To	+ Span	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Str. Set Ph.	Str. Set Ph.		Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
			-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C			
			(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)
81	7	1	82	7	1	9540	9342	9155	8978	8798	8637	8484	8338	8199	8066	7938	7816	7699	7587	7479

## Stringing Chart Report

Section #59 from structure #82 to structure #V5523N, start set #7 'ZL', end set #7 ''

Cable 'O:\PROlinCZPHA\22129\_TR Říčov-rek\_R110KV\PLS\lana\opgw\_2s 2 24 M167\_R91-228', Ruling span (m) 78.1671

Sagging data: Catenary (m) 238, Horiz. Tension (N) 1639.82 Condition C Temperature (deg C) -5

Weather case for final after creep 80°C, Equivalent to 25.1 (deg C) temperature increase

Weather case for final after load 40°C, Equivalent to 0.1 (deg C) temperature increase

Results below for condition 'Initial FE'

Calculations done using actual span lengths and vertical projections

+ Span From + + Span To +			Span	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Left	Span			
Str.	Set	Ph.	Str.	Set	Ph.	Length	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Span	Struct	Vertical			
							Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	Projection			
						-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C			
						(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)			
82	7		1V5523N	7	1	81.8	3.38	3.42	3.46	3.50	3.54	3.58	3.61	3.65	3.69	3.72	3.76	3.79	3.83	3.86	3.90	82	-25.30

+ Span From	+ Span To	+ Span	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Str. Set Ph.	Str. Set Ph.		Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
			-20 C	-15 C	-10 C	-5 C	0 C	5 C	10 C	15 C	20 C	25 C	30 C	35 C	40 C	45 C	50 C			
			(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)
82	7	1V5523N	7	1	1788	1768	1748	1729	1708	1690	1673	1656	1640	1624	1608	1593	1579	1565	1551	