

TR Říčov - rek.R110kV, sek.tech., VS, PZTS
Montážní tabulky pro FV
V504/549

Stringing Chart Report

Section #8 from structure #1 to structure #TR549, start set #1 'LH', end set #3 ''

Cable 'O:\PROLinCZPHA\22129_TR Říčov-rek_R110KV\PLS\lana\243_all_39_stla-30°C', Ruling span (m) 73.0764

Sagging data: Catenary (m) 242.468, Horiz. Tension (N) 2350 Condition C Temperature (deg C) -5

Weather case for final after creep 80°C, Equivalent to 29.8 (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)
1	1	1	TR549	3	1	74.2	3.09	3.12	3.14	3.16	3.19	3.21	3.23	3.26	3.28	3.30	3.32	3.35	3.37	3.39
																			1	-13.24

+ Span From	+ + Span To	+ 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)			
1	1	1 TR549 3 1	2512	2493	2474	2457	2437	2419	2401	2384	2367	2351	2334	2318	2303	2287	2272		

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Stringing Chart Report

Section #9 from structure #1 to structure #TR504, start set #2 'PH', end set #1 ''

Cable 'O:\PROLinCZPHA\22129_TR Řípov-rek_R110KV\PLS\lana\243_all_39_stla-30°C', Ruling span (m) 67.923

Sagging data: Catenary (m) 242.468, Horiz. Tension (N) 2350 Condition C Temperature (deg C) -5

Weather case for final after creep 80°C, Equivalent to 30.0 (deg C) temperature increase

Weather case for final after load 40°C, Equivalent to 0.3 (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)	(m)		
1	2	1	TR504	1	1	69.2	2.73	2.76	2.78	2.80	2.82	2.84	2.86	2.89	2.91	2.93	2.95	2.97	2.99	3.01	3.03	1	-13.2

+ Span From	+ + Span To	+ +	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Str. Set Ph.	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)
1	2	1	TR504	1	1	2522	2501	2481	2461	2439	2422	2404	2385	2367	2350	2333	2316	2299	2283	2267

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Stringing Chart Report

Section #10 from structure #1 to structure #TR549, start set #3 'LS', end set #2 ''

Cable 'O:\PROLinCZPHA\22129_TR Řípov-rek_R110KV\PLS\lana\243_all_39_st1a-30°C', Ruling span (m) 74.8642

Sagging data: Catenary (m) 242.468, Horiz. Tension (N) 2350 Condition C Temperature (deg C) -5

Weather case for final after creep 80°C, Equivalent to 30.0 (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)	(m)		
1	3	1	TR549	2	1	75.4	3.17	3.19	3.22	3.24	3.26	3.28	3.31	3.33	3.35	3.37	3.40	3.42	3.44	3.46	3.48	1	-9.29

+ Span From	+ + Span To	+ 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)
1	3	1 TR549	2	1	2506	2487	2469	2451	2433	2416	2399	2382	2366	2350	2334	2319	2303	2288	2274

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Stringing Chart Report

Section #11 from structure #1 to structure #TR504, start set #4 'PS', end set #2 ''

Cable 'O:\PROLinCZPHA\22129_TR Řípov-rek_R110KV\PLS\lana\243_all_39_st1a-30°C', Ruling span (m) 67.3131

Sagging data: Catenary (m) 242.468, Horiz. Tension (N) 2350 Condition C Temperature (deg C) -5

Weather case for final after creep 80°C, Equivalent to 30.2 (deg C) temperature increase

Weather case for final after load 40°C, Equivalent to 0.3 (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)	(m)		
1	4	1	TR504	2	1	67.9	2.63	2.66	2.68	2.70	2.72	2.74	2.76	2.78	2.80	2.82	2.84	2.86	2.88	2.90	2.92	1	-9.29

+ Span From	+ + Span To	+ +	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)		
1	4	1	TR504	2	1	2521	2500	2480	2460	2439	2420	2401	2383	2365	2350	2333	2316	2299	2283	2267

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Section #12 from structure #1 to structure #TR549, start set #5 'LD', end set #1 ''

Cable 'O:\PROLinCZPHA\22129_TR Řípov-rek_R110KV\PLS\lana\243_all_39_st1a-30°C', Ruling span (m) 76.5218

Sagging data: Catenary (m) 242.468, Horiz. Tension (N) 2350 Condition C Temperature (deg C) -5

Weather case for final after creep 80°C, Equivalent to 30.0 (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 Length		Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical			
Str.	Set	Ph.	Str.	Set	Ph.	Sag	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)			
1	5	1	TR549	1	1	76.7	3.25	3.28	3.30	3.32	3.35	3.37	3.39	3.41	3.44	3.46	3.48	3.50	3.53	3.55	3.57	1	-5.34

+ Span From	+ + Span To	+ +	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Str. Set Ph.	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)
1	5	1	TR549	1	1	2503	2484	2466	2449	2429	2415	2398	2382	2366	2350	2335	2320	2305	2290	2276

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Stringing Chart Report

Section #13 from structure #1 to structure #TR504, start set #6 'PD', end set #3 ''

Cable 'O:\PROLinCZPHA\22129_TR Řípov-rek_R110KV\PLS\lana\243_all_39_st1a-30°C', Ruling span (m) 66.5977

Sagging data: Catenary (m) 242.468, Horiz. Tension (N) 2350 Condition C Temperature (deg C) -5

Weather case for final after creep 80°C, Equivalent to 30.0 (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)	(m)		
1	6	1	TR504	3	1	66.8	2.55	2.57	2.59	2.61	2.63	2.65	2.67	2.69	2.71	2.73	2.75	2.77	2.79	2.81	2.82	1	-5.34

+ Span From	+ + Span To	+ +	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)		
1	6	1	TR504	3	1	2523	2502	2482	2462	2441	2422	2403	2385	2367	2350	2332	2315	2299	2283	2269

