

TR Řípov - rek.R110kV, sek.tech., VS, PZTS
Montážní tabulky pro FV
V502/503

Stringing Chart Report

Section #7 from structure #187 to structure #TR V503N, start set #1 'LH', end set #2 ''

Cable 'O:\PROLinCZPHA\22129_TR Řípov-rek_R110KV\PLS\lana\185-all_43-st6c_30°.wir', Ruling span (m) 47.5853

Sagging data: Catenary (m) 309.634, Horiz. Tension (N) 2600 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	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	Span	Span	Span	Span	Span	Struct	Vertical
						Sag			Sag	Sag	Sag	Sag	Sag	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)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
187	1	1TR V503N	2	1	48.8	1.23	1.25	1.27	1.28	1.30	1.31	1.33	1.34	1.35	1.37	1.38	1.40	1.41	1.43	1.44							187		-10.96

+ Span From +	+ Span To +		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
			-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)		
187	1	1TR V503N	2	1	2893	2856	2820	2785	2752	2720	2689	2659	2629	2601	2573	2546	2520	2494	2469

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Stringing Chart Report

Section #8 from structure #187 to structure #TR V502N, start set #2 'PH', end set #2 ''

Cable 'O:\PROLinCZPHA\22129_TR Řípov-rek_R110KV\PLS\lana\185-all_43-st6c_30°.wir', Ruling span (m) 47.574

Sagging data: Catenary (m) 309.634, Horiz. Tension (N) 2600 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	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			
						(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)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)		
187	2	1TR V502N	2	1		48.8	1.23	1.25	1.27	1.28	1.30	1.31	1.33	1.34	1.35	1.37	1.38	1.40	1.41	1.42	1.44	187	-10.96

+ 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)			
187	2	1TR V502N	2	1	2893	2856	2820	2785	2752	2720	2689	2659	2629	2601	2573	2546	2520	2494	2469	

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Stringing Chart Report

Section #9 from structure #187 to structure #TR V503N, start set #3 'LS', end set #1 ''

Cable 'O:\PROLinCZPHA\22129_TR Řípov-rek_R110KV\PLS\lana\185-all_43-st6c_30°.wir', Ruling span (m) 48.2966

Sagging data: Catenary (m) 309.634, Horiz. Tension (N) 2600 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	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	Span	Span	Span	Span	Span	Span	Struct	Vertical
									Sag	Sag	Sag	Sag	Sag	Sag	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	50 C	50 C	50 C	50 C			
						(m)			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
187	3	1TR V503N	1	1	48.8	1.23	1.25	1.26	1.28	1.29	1.30	1.32	1.33	1.35	1.36	1.37	1.39	1.40	1.41	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	187	-6.96	

+ 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)			
187	3	1TR V503N	1	1	2878	2843	2809	2776	2744	2714	2684	2655	2627	2599	2573	2547	2521	2497	2473	

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Section #10 from structure #187 to structure #TR V502N, start set #4 'PS', end set #3 ''

Cable 'O:\PROLinCZPHA\22129_TR Řípov-rek_R110KV\PLS\lana\185-all_43-st6c_30°.wir', Ruling span (m) 48.3469

Sagging data: Catenary (m) 309.634, Horiz. Tension (N) 2600 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	Left	Span	
Str. Set Ph.			Str. Set Ph.			Length	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	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)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
187	4	1TR V502N	3	1	48.8	1.23	1.25	1.26	1.28	1.29	1.31	1.32	1.33	1.35	1.36	1.37	1.39	1.40	1.41	1.43	187	-6.96

+ 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)			
187	4	1TR V502N	3	1	2878	2843	2809	2776	2745	2714	2684	2655	2627	2600	2573	2547	2522	2497	2473	

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Section #11 from structure #187 to structure #TR V503N, start set #5 'LD', end set #3 ''

Cable 'O:\PROLinCZPHA\22129_TR Řípov-rek_R110KV\PLS\lana\185-all_43-st6c_30°.wir', Ruling span (m) 48.3361

Sagging data: Catenary (m) 309.634, Horiz. Tension (N) 2600 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	Left	Span	
Str. Set Ph.			Str. Set Ph.			Length	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	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)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
187	5	1TR V503N	3	1	48.8	1.23	1.25	1.26	1.28	1.29	1.31	1.32	1.33	1.35	1.36	1.37	1.39	1.40	1.41	1.43	187	-6.96

+ 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)			
187	5	1TR V503N	3	1	2878	2843	2809	2776	2745	2714	2684	2655	2627	2600	2573	2547	2522	2497	2473	

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Section #12 from structure #187 to structure #TR V502N, start set #6 'PD', end set #1 ''

Cable 'O:\PROLinCZPHA\22129_TR Řípov-rek_R110KV\PLS\lana\185-all_43-st6c_30°.wir', Ruling span (m) 48.2636

Sagging data: Catenary (m) 309.634, Horiz. Tension (N) 2600 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	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			
						(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)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)		
187	6	1TR V502N	1	1		48.8	1.23	1.25	1.26	1.27	1.29	1.30	1.32	1.33	1.34	1.36	1.37	1.39	1.40	1.41	1.42	187	-6.96

+ 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)			
187	6	1TR V502N	1	1	2878	2842	2808	2776	2744	2713	2684	2655	2627	2599	2573	2547	2521	2496	2472	