

TR Řípov - rek.R110kV, sek.tech., VS, PZTS
Montážní tabulky pro FV
V5580/5581

Stringing Chart Report

Section #15 from structure #1 to structure #V5580N, start set #1 '', end set #2 ''

Cable 'O:\PROLinCZPHA\22129_TR Řípov-rek_R110KV\PLS\lana\243_all_39_stla-30°C', Ruling span (m) 51.8857

Sagging data: Catenary (m) 143, Horiz. Tension (N) 1385.96 Condition C Temperature (deg C) 40

Weather case for final after creep 80°C, Equivalent to 30.4 (deg C) temperature increase

Weather case for final after load 40°C, Equivalent to 0.7 (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	1V5580N	2	1		56.3	3.19	3.21	3.22	3.24	3.26	3.27	3.29	3.30	3.31	3.33	3.34	3.36	3.37	3.39	3.40	1	-23.64

+ 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	1	1V5580N	2	1	1508	1500	1493	1486	1478	1471	1464	1458	1451	1444	1438	1431	1425	1418	1412

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Section #18 from structure #1 to structure #V5581N, start set #2 '', end set #2 ''

Cable 'O:\PROLinCZPHA\22129_TR Řířov-řek_R110KV\PLS\lana\243_all_39_stla-30°C', Ruling span (m) 51.1526

Sagging data: Catenary (m) 143, Horiz. Tension (N) 1385.96 Condition C Temperature (deg C) 40

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)	(m)		
1	2	1V5581N	2	1		55.6	3.13	3.15	3.16	3.18	3.20	3.21	3.23	3.24	3.25	3.27	3.28	3.30	3.31	3.33	3.34	1	-23.64

+ 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.	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	2	1V5581N	2	1	1507	1499	1492	1485	1476	1469	1462	1455	1449	1443	1436	1430	1423	1417	1410	

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Section #26 from structure #1 to structure #V5580N, start set #3 '', end set #3 ''

Cable 'O:\PROLinCZPHA\22129_TR Řípov-rek_R110KV\PLS\lana\243_all_39_st1a-30°C', Ruling span (m) 52.6676

Sagging data: Catenary (m) 143, Horiz. Tension (N) 1385.96 Condition C Temperature (deg C) 40

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	Span	Struct	Vertical
							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)
1	3	1V5580N	3	1		55.7	3.07	3.09	3.10	3.11	3.13	3.14	3.16	3.17	3.18	3.20	3.21	3.23	3.24	3.25	3.27
																				1	-19.1

+ 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.	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)		
1	3	1V5580N	3	1	1504	1496	1489	1482	1474	1467	1460	1455	1448	1442	1435	1429	1423	1416	1410

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Section #34 from structure #1 to structure #V5581N, start set #4 '', end set #1 ''

Cable 'O:\PROLinCZPHA\22129_TR Řířov-řek_R110KV\PLS\lana\243_all_39_stla-30°C', Ruling span (m) 52.3089

Sagging data: Catenary (m) 143, Horiz. Tension (N) 1385.96 Condition C Temperature (deg C) 40

Weather case for final after creep 80°C, Equivalent to 29.6 (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)
1	4	1V5581N	1	1		55.3	3.24	3.25	3.26	3.28	3.29	3.30	3.32	3.33	3.34	3.36	3.37	3.38	3.39	3.41
																				3.42
																			1	-19.1

+ Span From	+ + Span To	+ Horiz	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	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	4	1V5581N	1	1	1491	1484	1478	1472	1465	1459	1453	1447	1441	1435	1430	1424	1418	1413	1407	

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Section #37 from structure #1 to structure #V5580N, start set #5 '', end set #1 ''

Cable 'O:\PROLinCZPHA\22129_TR Říčov-rek_R110KV\PLS\lana\243_all_39_stla-30°C', Ruling span (m) 55.2006

Sagging data: Catenary (m) 143, Horiz. Tension (N) 1385.96 Condition C Temperature (deg C) 40

Weather case for final after creep 80°C, Equivalent to 30.6 (deg C) temperature increase

Weather case for final after load 40°C, Equivalent to 0.9 (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	5	1V5580N	1	1		57.0	3.34	3.36	3.37	3.38	3.39	3.41	3.42	3.43	3.44	3.46	3.47	3.48	3.49	3.50	3.52	1	-14.64

+ 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.	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)		
1	5	1V5580N	1	1	1486	1480	1474	1468	1462	1456	1450	1445	1439	1434	1428	1423	1417	1412	1407

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Section #45 from structure #1 to structure #V5581N, start set #6 '', end set #3 ''

Cable 'O:\PROLinCZPHA\22129_TR Řířov-řek_R110KV\PLS\lana\243_all_39_stla-30°C', Ruling span (m) 54.1761

Sagging data: Catenary (m) 143, Horiz. Tension (N) 1385.96 Condition C Temperature (deg C) 40

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 0.3 (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	6	1V5581N	3	1		56.0	3.25	3.26	3.27	3.28	3.30	3.31	3.32	3.33	3.35	3.36	3.37	3.38	3.39	3.41	3.42	1	-14.64

+ Span From	+ Span To	+ Span	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)		
1	6	1V5581N	3	1	1488	1482	1476	1470	1463	1457	1452	1446	1440	1435	1429	1424	1419	1413	1408