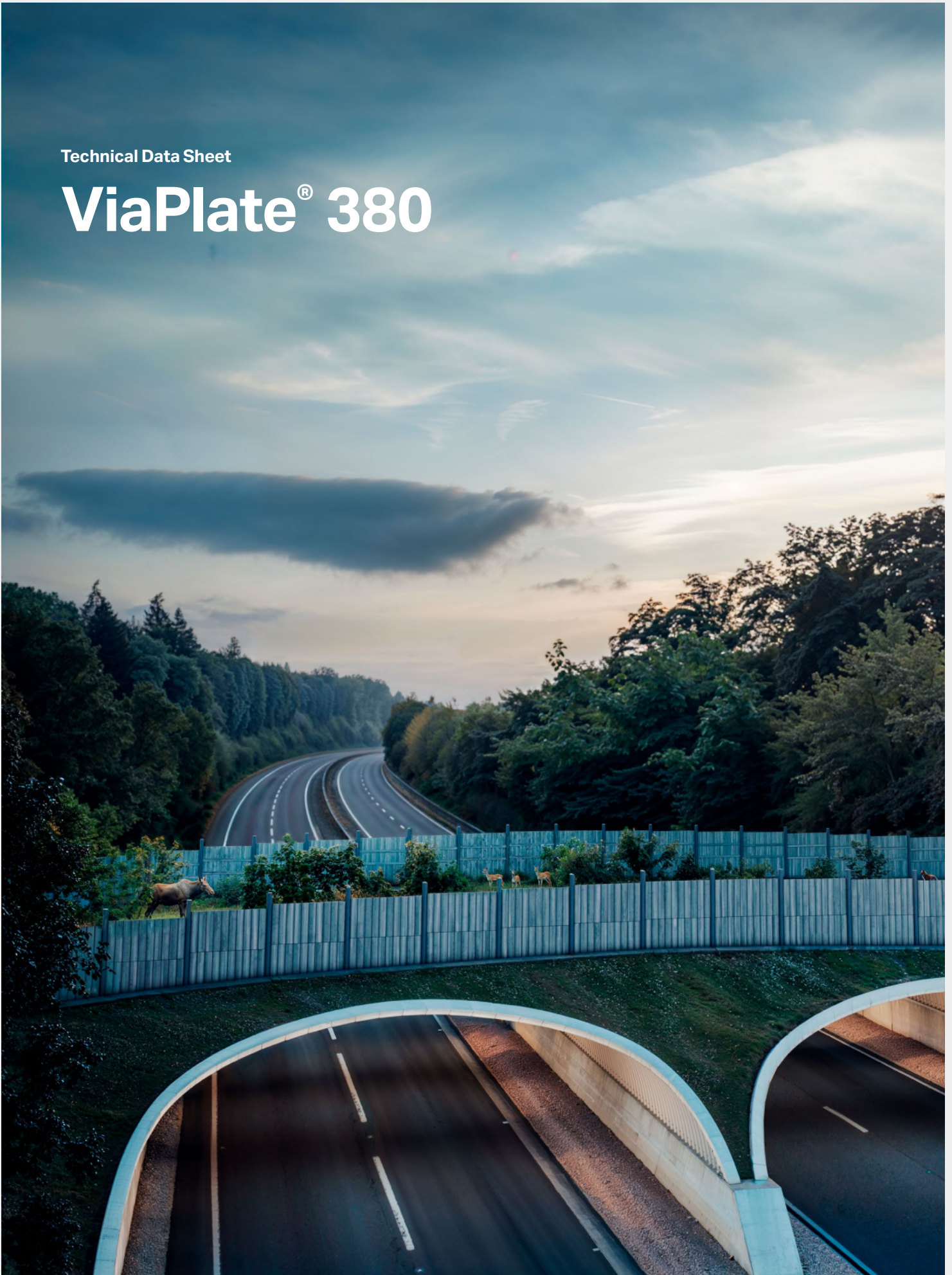


Technical Data Sheet

# ViaPlate<sup>®</sup> 380



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**VIACON**

# ViaCon ViaPlate 380

This Technical Data Sheet is valid for ViaCon Polska Sp. z o.o. production plant in Rydzyna/Poland and ViaCon İnşaat A.Ş production plant in Hendek, Türkiye.

CE Certificate of Factory Production Control No. 1023-CPR-0640 F.

Steel Structures and Aluminum Structures according to EN 1090-1. Issued by notified body no. 1023

## Description

Flexible, cold-formed, corrugated steel plates, connected with bolts and nuts, used mainly in civil engineering as soil-steel composite structures, under railway and roadway traffic loads.

## Intended use

- Culverts
- Bridges
- Grade separations/viaducts
- Tunnels
- Underpasses
- Ecological crossings
- Relining of existing old structures
- Conveyor belt protections
- Hangars

## Product features

- High structural strength
- Wide range of shapes and sizes
- Low weight
- High corrosion protection
- Short installation time

## TECHNICAL PROPERTIES

### Steel

The steel used for the production of the ViaPlate 380 structures conforms to the European Standards:

- EN 10025-2 "Hot rolled products of structural steels – Part 2: Technical delivery conditions for non-alloy structural steels"
- EN 10149-2 2 "Designation Hot-rolled flat products made of high yield strength steels for cold forming - Delivery conditions for thermo-mechanically rolled steels"

### ViaPlate 380 steel mechanical properties

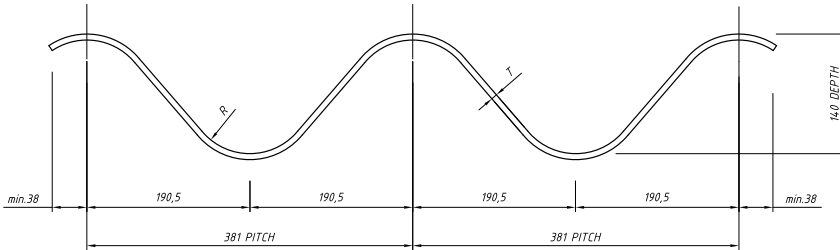
Steel grade	Standard	Minimum yield strength $R_e$ [MPa]	Tensile strength $R_m$ [MPa]
S355MC	EN-10149	355	430 - 550
S420MC	EN-10149	420	480 - 620

*Steel is delivered with certificate 3.1 acc. to EN 10204*



## Corrugation

ViaPlate 380 corrugation profile is 381x140mm.



*T* – plate thickness [mm]

*R* – radius [mm] - (depends on the plate thickness)

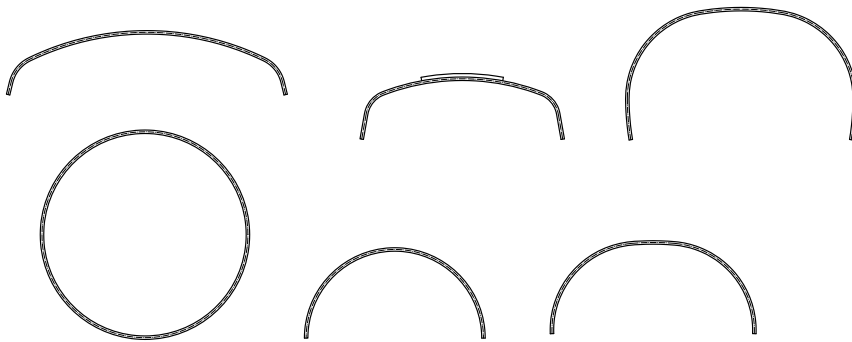
## Plates

ViaPlate 380 structures can be produced from steel plates of thickness from 5.50 mm to 8.00 mm.

The maximum length of plate and minimum radius are limited by plate thickness and steel grade configuration. Production possibilities have to be agreed with ViaCon.

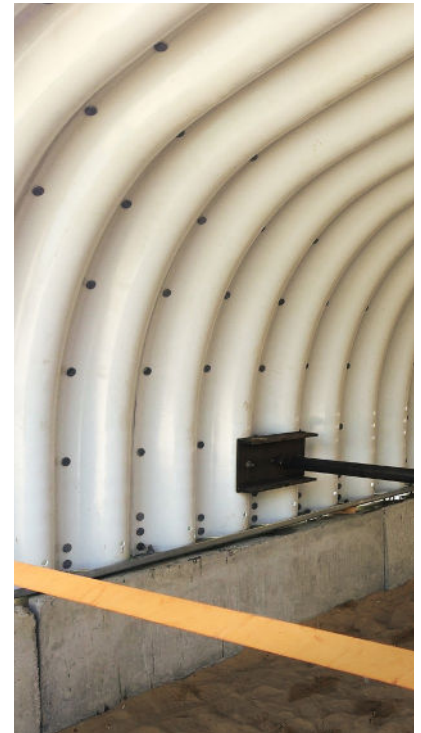
## Profile shapes & sizes

ViaPlate 380 profiles (cross sections) can be produced in the following shapes:



The geometrical parameters of individual profiles are presented in TDS Appendix no.1.

Custom shapes are available on request and have to be agreed with the manufacturer.



## Loads

ViaPlate 380 structures can be used for every common class of road and rail traffic. The bearing capacity for other loads e.g. airplanes, industrial or any other special loads can also be evaluated.



## Tolerances of structure's geometry

The values of the geometric parameters of the structure after assembly should not differ from the designed values more than:

- Span: +2% for open shape structures,  $\pm 2\%$  for closed shape structures
- Rise: +2% /-4% for open shape structures,  $\pm 2\%$  for other type structures
- Length: + 0.5%

The vertical displacement of the structure's crown point during the backfilling process should not exceed 2% of its span measured before backfilling, if it's not stated differently in the design

## Bolts, nuts, anchor bolts, base channel

### Bolts, nuts, anchor bolts, base channel

Type	Dimension	Length	Standard
Bolts	M20 (class 8.8)	50 mm, 70 mm	EN ISO 898-1
	M20 (class 10.9)	50 mm, 70 mm	EN ISO 898-1
Nuts	M20	-	EN ISO 898-2
Anchor bolts	M20	225 mm, 365 mm	EN 10025-2
Base channels	162x190x38x5 mm	3000 mm	EN 10025-2

*Bolts and nuts shall be galvanised in accordance with EN ISO 1461 and 10684.*

*Bolts and nuts are delivered with certificate 3.1 acc. to EN 10204.*

*Base channels shall be galvanised in accordance with EN ISO 1461.*



## DURABILITY

Depending on environmental conditions (aggressivity), calculated durability may be longer than 100 years.

Durability of ViaPlate 380 structures - is ensured by:

- Zinc coating
- Paint coating
- Sacrificial thickness of the steel plate (increasing of the plate thickness)

## Zinc coating

The structural plates are galvanized in accordance with EN ISO 1461.

Table No 1. presents a feasible range of zinc coat thicknesses. The zinc coat thickness is verified by means of magnetic method in accordance to EN ISO 2178. Each structure is delivered with the Certificate of Galvanizing.

The bolts and nuts are galvanized in accordance to EN ISO 1461 and 10684.



Extra thicknesses of zinc coating																					
Plate thickness [mm]	Thickness of zinc coating acc. to EN ISO 1461:2022 [μm]		Extra thickness of zinc coating available on customer's demand as a standard [μm]									Extra thickness of zinc coating available on customer's demand by special conditions [μm]									
	70	85	75	80	85	90	95	100	105	110	115	105	110	115	120	125	130	135	140	145	150
5,50	X	-	X	X	X	X	X	X	-	-	-	X	X	X	-	-	-	-	-	-	-
6,00	X	-	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-
7,00	-	X	-	-	-	X	X	X	X	X	X	-	-	-	X	X	X	X	X	X	-
8,00	-	X	-	-	-	X	X	X	X	X	X	-	-	-	X	X	X	X	X	X	-

X = Available thickness of zinc coating

## ViaCoat system

In order to achieve the required durability in aggressive environments, paint coatings over the zinc coating are applied. Doubled protection of a structure (zinc coating and paint system) is called ViaCoat system. The minimum adhesion of the paint to the zinc base measured by pull-off method is 4 MPa. In order to obtain proper protection effect, paint coatings are applied in controlled conditions (closed area with defined temperature and humidity), keeping the technological regime.

The color of the ViaCon standard painting system is RAL 1013 or RAL 7035. Each painted structure is always delivered with Certificate of Painting.

## Individual design

Each application with use of a ViaPlate 380 structure requires individual design.

The design should follow the guidelines issued by ViaCon as well as respective country specific requirements.

## Production time

Production time for each structure is calculated individually.

## LIST OF STANDARDS:

**EN ISO 898-1** – “Mechanical properties of fasteners made of carbon steel and alloy steel. Bolts, screws and studs with specified property classes. Coarse thread and fine pitch thread”.

**EN ISO 1090-1** – “Execution of steel structures and aluminum structures. Requirements for conformity assessment of structural components”.

**EN ISO 1461** – “Hot-dip galvanised coatings on fabricated iron and steel articles. Specifications and test methods”.

**EN ISO 2178** – “Non-magnetic coatings on magnetic substrates. Measurement of coating thickness. Magnetic method”.

**EN 10025-2** - “Hot-rolled products of structural steels – Part 2: Technical delivery conditions for non-alloy structural steels”.

**EN 10149-2** - “Designation hot-rolled flat products made of high yield strength steels for cold forming – Delivery conditions for thermo-mechanically rolled steels”.

**EN 10204** – “Metallic products. Types of inspection documents”.

**EN ISO 10684** – “Fasteners. Hot-dip galvanised coatings”.

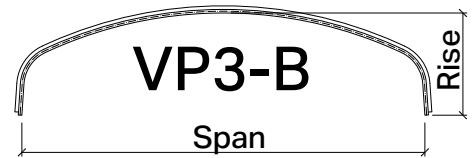
## TRANSPORT AND STORAGE

Unloading and placement of the structure's elements should be performed with the use of light mechanical crane devices and textile belts. The structure's elements should not be dropped from the transportation unit. Plates can be stored in stacks with wooden or carton spacers.

Any damages to the corrosion protection caused during transportation, unloading or assembly must be repaired in accordance to the “Assembly & Backfilling Guide”.



# Appendix



ViaCon ViaPlate 380 structure - B, standard profiles			
Name	Span - inner [m]	Rise - inner [m]	Area [m <sup>2</sup> ]
VP3-B1	3,17	1,18	3,12
VP3-B2	3,55	1,42	4,33
VP3-B3	3,84	1,46	4,94
VP3-B4	3,97	2,21	7,32
VP3-B5	3,86	1,26	4,19
VP3-B6	4,11	1,86	6,55
VP3-B7	4,21	1,31	4,78
VP3-B8	4,74	1,96	8,14
VP3-B9	4,55	1,36	5,38
VP3-B10	4,89	1,61	6,96
VP3-B11	4,86	2,36	10,08
VP3-B12	5,16	2,42	11,07
VP3-B13	5,21	1,67	7,71
VP3-B14	5,36	2,07	9,88
VP3-B15	5,32	1,44	6,61
VP3-B16	5,44	2,48	12,05
VP3-B17	5,66	1,50	7,33
VP3-B18	5,96	2,64	14,24
VP3-B19	5,89	1,60	8,15
VP3-B20	6,16	1,90	10,31
VP3-B21	6,24	2,72	15,37
VP3-B22	6,32	1,64	8,92
VP3-B23	6,48	1,98	11,26
VP3-B24	6,50	2,38	13,88
VP3-B25	6,64	1,72	9,78
VP3-B26	6,97	1,80	10,66
VP3-B27	7,00	2,20	13,49
VP3-B28	7,02	2,61	16,36
VP3-B29	7,29	1,87	11,57
VP3-B30	7,30	2,29	14,60
VP3-B31	7,31	2,69	17,56
VP3-B32	7,32	3,09	20,51
VP3-B33	7,40	1,68	10,20
VP3-B34	7,80	1,96	12,70
VP3-B35	7,94	2,37	15,89
VP3-B36	8,58	1,92	13,90
VP3-B37	8,60	2,32	17,38
VP3-B38	8,64	2,74	20,91
VP3-B39	9,14	1,94	14,64
VP3-B40	9,22	2,34	18,36
VP3-B41	9,31	2,75	22,11
VP3-B42	9,81	2,10	16,90
VP3-B43	9,87	2,51	20,89
VP3-B44	9,92	2,92	24,94
VP3-B45	10,46	2,28	19,42
VP3-B46	10,49	2,69	23,66

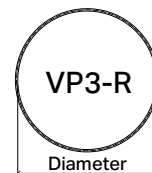
### ViaCon ViaPlate 380 structure - B, standard profiles

Name	Span - inner [m]	Rise - inner [m]	Area [m <sup>2</sup> ]
VP3-B47	10,52	3,10	27,97
VP3-B48	10,89	2,36	20,60
VP3-B49	10,94	2,76	25,02
VP3-B50	10,99	3,16	29,46
VP3-B51	11,64	2,53	23,30
VP3-B52	11,70	2,93	28,03
VP3-B53	11,75	3,35	32,83
VP3-B54	12,27	2,75	26,49
VP3-B55	12,29	3,15	31,46
VP3-B56	12,32	3,56	36,45
VP3-B57	13,03	2,83	30,73
VP3-B58	13,05	3,24	36,02
VP3-B59	14,09	3,07	35,61
VP3-B60	14,11	3,48	41,34
VP3-B61	15,02	3,17	38,38
VP3-B62	15,04	3,57	44,53
VP3-B63	15,58	3,84	49,46
VP3-B64	15,75	3,99	52,12

Comment: The DWG file containing all profile cross-sections is available on our website or upon request.





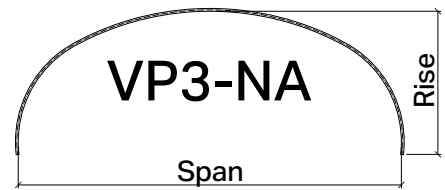


### ViaCon ViaPlate 380 structure - R, standard profiles

Name	Span - inner [m]	Rise - inner [m]	Area [m <sup>2</sup> ]
VP3-R64	8,14	8,14	52,03
VP3-R66	8,40	8,40	55,39
VP3-R68	8,66	8,66	58,85
VP3-R70	8,92	8,92	62,43
VP3-R72	9,17	9,17	66,10
VP3-R74	9,43	9,43	69,88
VP3-R76	9,69	9,69	73,77
VP3-R78	9,95	9,95	77,76
VP3-R80	10,21	10,21	81,86
VP3-R82	10,46	10,46	85,93
VP3-R84	10,72	10,72	90,26
VP3-R86	10,98	10,98	94,69
VP3-R88	11,24	11,24	99,23
VP3-R90	11,50	11,50	103,87
VP3-R94	12,02	12,02	113,47
VP3-R98	12,53	12,53	123,31
VP3-R102	13,05	13,05	133,76
VP3-R106	13,57	13,57	144,63
VP3-R110	14,08	14,08	155,70
VP3-R114	14,60	14,60	167,42
VP3-R118	15,12	15,12	179,55
VP3-R122	15,64	15,64	192,12

Comment: The DWG file containing all profile cross-sections is available on our website or upon request.





### ViaCon ViaPlate 380 structure - NA, standard profiles

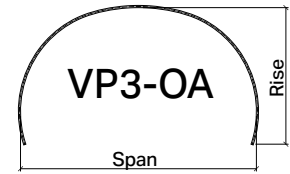
Name	Span - inner [m]	Rise - inner [m]	Area [m <sup>2</sup> ]
VP3-NA1	8,00	3,59	23,53
VP3-NA2	9,00	3,76	28,15
VP3-NA3	9,50	3,96	31,54
VP3-NA4	10,00	3,96	33,14
VP3-NA5	10,00	4,55	38,93
VP3-NA6	10,50	3,97	34,75
VP3-NA7	11,00	4,19	38,53
VP3-NA8	11,00	4,78	44,86
VP3-NA9	11,50	4,22	40,26
VP3-NA10	12,00	4,26	42,02
VP3-NA11	12,00	5,64	57,10
VP3-NA12	12,50	4,50	46,26
VP3-NA13	13,00	4,55	48,18
VP3-NA14	13,00	5,89	64,39
VP3-NA15	13,50	4,61	50,12
VP3-NA16	14,00	4,88	54,88
VP3-NA17	14,00	6,54	75,91
VP3-NA18	14,50	5,15	61,42
VP3-NA19	15,00	5,23	62,13
VP3-NA20	15,00	7,02	87,32
VP3-NA21	15,50	5,52	67,55
VP3-NA22	16,00	4,92	64,47
VP3-NA23	16,00	6,67	89,41
VP3-NA24	16,50	5,17	69,78
VP3-NA25	17,00	5,22	72,02
VP3-NA26	17,00	6,72	94,96
VP3-NA27	17,50	5,28	74,29
VP3-NA28	18,00	5,55	80,14
VP3-NA29	18,00	7,00	104,17
VP3-NA30	18,50	5,62	82,59
VP3-NA31	19,00	5,89	88,82
VP3-NA32	19,00	7,10	110,10
VP3-NA33	19,50	5,97	91,46
VP3-NA34	20,00	6,25	98,10

### ViaCon ViaPlate 380 structure - NA, standard profiles

Name	Span - inner [m]	Rise - inner [m]	Area [m <sup>2</sup> ]
VP3-NA35	20,00	7,42	120,17
VP3-NA36	20,50	6,34	100,94
VP3-NA37	21,00	6,63	107,96
VP3-NA38	21,00	8,46	144,33
VP3-NA39	21,50	6,93	115,24
VP3-NA40	22,00	5,92	104,20
VP3-NA41	22,00	8,26	151,51
VP3-NA42	22,50	6,17	111,18
VP3-NA43	23,00	6,94	129,33
VP3-NA44	23,00	8,91	170,68
VP3-NA45	23,50	7,01	132,55
VP3-NA46	24,00	7,28	140,31
VP3-NA47	24,00	8,99	178,19
VP3-NA48	24,53	7,34	143,54
VP3-NA49	25,05	7,41	146,79
VP3-NA50	25,00	9,29	190,75
VP3-NA51	25,50	7,69	155,09

Comment: The DWG file containing all profile cross-sections is available on our website or upon request.





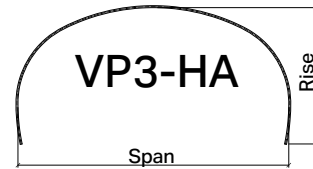
### ViaCon ViaPlate 380 structure - OA, standard profiles

Name	Span - inner [m]	Rise - inner [m]	Area [m <sup>2</sup> ]
VP3-OA1	9,32	4,54	34,04
VP3-OA2	9,30	5,33	41,30
VP3-OA3	9,54	4,65	35,92
VP3-OA4	9,52	5,24	41,50
VP3-OA5	9,84	4,76	37,87
VP3-OA6	9,89	5,55	45,67
VP3-OA7	10,21	5,02	41,90
VP3-OA8	10,19	5,74	49,53
VP3-OA9	10,52	4,62	39,65
VP3-OA10	10,60	5,23	46,00
VP3-OA11	10,52	5,94	52,21
VP3-OA12	10,83	4,73	41,69
VP3-OA13	10,80	5,32	48,03
VP3-OA14	10,79	6,03	54,43
VP3-OA15	11,12	5,00	45,88
VP3-OA16	11,08	5,40	50,22
VP3-OA17	11,14	6,33	59,11
VP3-OA18	11,35	5,10	48,06
VP3-OA19	11,43	5,63	54,56
VP3-OA20	11,37	6,44	61,45
VP3-OA21	11,64	5,19	50,29
VP3-OA22	11,70	5,72	56,86
VP3-OA23	11,66	6,50	64,04
VP3-OA24	12,00	5,41	54,64
VP3-OA25	11,99	5,84	59,37
VP3-OA26	77,99	6,71	67,29
VP3-OA27	12,26	5,53	51,13
VP3-OA28	12,27	6,09	63,95
VP3-OA29	12,29	7,00	72,32
VP3-OA30	12,57	5,79	61,76

**ViaCon ViaPlate 380 structure - OA, standard profiles**

<b>Name</b>	<b>Span - inner [m]</b>	<b>Rise - inner [m]</b>	<b>Area [m<sup>2</sup>]</b>
VP3-OA31	12,60	6,23	66,92
VP3-OA32	12,62	7,00	74,85
VP3-OA33	12,89	5,91	64,62
VP3-OA34	12,92	6,35	69,66
VP3-OA35	12,94	7,28	80,12
VP3-OA36	13,25	6,06	67,36
VP3-OA37	13,21	6,46	72,50
VP3-OA38	13,21	7,48	83,50
VP3-OA39	13,45	6,27	72,06
VP3-OA40	13,43	6,61	75,37
VP3-OA41	13,40	7,54	85,97
VP3-OA42	13,74	6,28	74,10
VP3-OA43	13,75	6,81	78,63
VP3-OA44	13,84	7,75	89,95
VP3-OA45	14,06	6,46	77,55
VP3-OA46	14,07	6,96	83,52
VP3-OA47	14,25	7,97	95,83
VP3-OA48	14,29	6,62	80,50
VP3-OA49	14,38	7,08	86,59
VP3-OA50	14,44	8,19	99,18
VP3-OA51	14,66	6,74	83,73
VP3-OA52	14,68	7,23	89,95
VP3-OA53	14,70	8,22	102,07
VP3-OA54	14,92	6,89	86,54
VP3-OA55	14,97	7,44	93,42
VP3-OA56	14,99	8,50	108,04
VP3-OA57	15,27	7,04	90,22
VP3-OA58	15,32	7,53	96,63
VP3-OA59	15,24	8,64	111,44

*Comment: The DWG file containing all profile cross-sections is available on our website or upon request.*

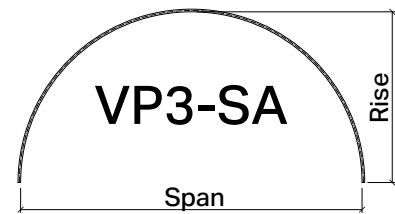


### ViaCon ViaPlate 380 structure - HA, standard profiles

Name	Span - inner [m]	Rise - inner [m]	Area [m <sup>2</sup> ]
VP3-HA1	9,00	5,17	40,67
VP3-HA2	10,00	5,37	47,06
VP3-HA3	11,00	5,86	56,27
VP3-HA4	12,00	6,11	63,68
VP3-HA5	13,00	6,46	72,07
VP3-HA6	14,00	7,01	83,57
VP3-HA7	15,00	7,35	92,90
VP3-HA8	16,00	7,98	111,11
VP3-HA9	17,00	8,48	124,98
VP3-HA10	18,00	9,21	143,30
VP3-HA11	19,00	9,56	155,81
VP3-HA12	20,00	10,34	176,71
VP3-HA13	21,00	10,92	194,68
VP3-HA14	22,00	11,36	216,73
VP3-HA15	23,00	11,89	236,34
VP3-HA16	24,00	12,46	257,12
VP3-HA17	25,00	13,02	278,58

Comment: The DWG file containing all profile cross-sections is available on our website or upon request.





### ViaCon ViaPlate 380 structure - SA, standard profiles

Name	Span - inner [m]	Rise - inner [m]	Area [m <sup>2</sup> ]
VP3-SA27	6,99	3,50	19,19
VP3-SA28	7,25	3,62	20,64
VP3-SA29	7,51	3,75	22,14
VP3-SA30	7,77	3,88	23,68
VP3-SA31	8,03	4,01	25,30
VP3-SA32	8,28	4,14	26,94
VP3-SA33	8,54	4,27	28,65
VP3-SA34	8,80	4,40	30,42
VP3-SA35	9,06	4,53	32,23
VP3-SA36	93,20	4,66	34,11
VP3-SA37	9,58	4,79	36,03
VP3-SA38	9,84	4,92	37,99
VP3-SA39	10,10	5,05	40,03
VP3-SA40	10,35	5,18	42,10
VP3-SA41	10,61	5,31	44,22
VP3-SA42	10,87	5,44	46,42
VP3-SA43	11,13	5,57	48,65
VP3-SA44	11,39	5,70	50,95
VP3-SA45	11,65	5,82	53,28
VP3-SA46	11,91	5,95	55,67
VP3-SA47	12,17	6,08	58,12
VP3-SA48	12,42	6,21	60,61
VP3-SA49	12,68	6,34	63,16
VP3-SA50	12,94	6,47	65,78
VP3-SA51	13,20	6,60	68,42
VP3-SA52	13,46	6,73	71,12
VP3-SA53	13,72	6,86	73,90
VP3-SA54	13,98	6,99	76,71
VP3-SA55	14,23	7,19	79,56
VP3-SA56	14,49	7,25	82,50
VP3-SA57	14,75	7,38	85,46
VP3-SA58	15,01	7,51	88,50
VP3-SA59	15,27	7,64	91,57
VP3-SA60	15,53	7,76	94,69
VP3-SA61	15,79	7,89	97,88
VP3-SA62	16,05	8,02	101,11
VP3-SA63	16,30	8,15	104,39
VP3-SA64	16,56	8,28	107,74
VP3-SA65	16,82	8,41	111,13
VP3-SA66	17,08	8,54	114,56
VP3-SA67	17,34	8,67	118,08
VP3-SA68	17,60	8,80	121,61
VP3-SA69	17,86	8,93	125,23
VP3-SA70	18,12	9,06	128,88
VP3-SA71	18,37	9,19	132,58
VP3-SA72	18,63	9,32	136,33

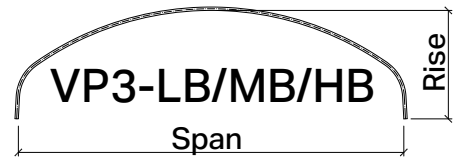


### ViaCon ViaPlate 380 structure - SA, standard profiles

Name	Span - inner [m]	Rise - inner [m]	Area [m <sup>2</sup> ]
VP3-SA73	18,89	9,45	140,16
VP3-SA74	19,15	9,58	144,01
VP3-SA75	19,41	9,70	147,95
VP3-SA76	19,67	9,83	151,91
VP3-SA77	19,93	9,96	155,92
VP3-SA78	20,19	10,09	160,01
VP3-SA79	20,44	10,22	164,13
VP3-SA80	20,70	10,35	168,30
VP3-SA81	20,96	10,48	172,55
VP3-SA82	21,22	10,61	176,83
VP3-SA83	21,48	10,74	181,19
VP3-SA84	21,74	10,87	185,57
VP3-SA85	22,00	11,00	190,00
VP3-SA86	22,26	11,13	194,52
VP3-SA87	22,51	11,26	199,05
VP3-SA88	22,77	11,39	203,64
VP3-SA89	23,03	11,52	208,32
VP3-SA90	23,29	11,64	213,01
VP3-SA91	23,55	11,77	217,75
VP3-SA92	23,91	11,90	222,59
VP3-SA93	24,07	12,03	227,44
VP3-SA94	24,33	12,16	232,38
VP3-SA95	24,58	12,29	237,34
VP3-SA96	24,84	12,42	242,34

Comment: The DWG file containing all profile cross-sections is available on our website or upon request.





### ViaCon ViaPlate 380 structure - LB/MB/HB, standard profiles

Name	Span - inner [m]	Rise - inner [m]	Area [m <sup>2</sup> ]
VP3-HB3	3,53	1,46	4,38
VP3-LB4	3,92	1,32	4,27
VP3-HB4	3,93	1,64	5,71
VP3-LB5	5,15	1,63	7,06
VP3-HB5	5,05	2,04	9,07
VP3-LB6	6,00	1,70	8,48
VP3-HB6	6,09	2,07	10,83
VP3-LB7	7,00	1,97	11,24
VP3-HB7	7,02	2,36	13,99
VP3-LB8	8,01	2,23	14,42
VP3-HB8	8,01	2,70	17,88
VP3-LB9	9,07	2,05	15,26
VP3-HB9	9,05	2,58	19,32
VP3-LB10	10,09	2,29	18,79
VP3-HB10	10,11	2,90	23,72
VP3-LB11	11,02	2,45	21,24
VP3-HB11	11,02	3,13	26,94
VP3-LB12	12,02	2,71	25,51
VP3-HB12	12,03	3,36	31,70
VP3-LB13	13,02	2,90	29,93
VP3-HB13	13,13	3,57	36,62
VP3-LB14	14,01	3,10	34,48
VP3-HB14	14,09	4,01	44,88
VP3-LB15	15,07	3,12	36,61
VP3-MB15	15,01	3,59	41,64
VP3-HB15	15,05	4,32	49,54
VP3-LB16	16,01	3,19	39,09
VP3-MB16	16,02	3,89	49,40
VP3-HB16	16,01	4,50	57,25
VP3-LB17	17,10	3,52	47,40
VP3-MB17	17,09	4,16	56,25
VP3-HB17	17,09	4,84	64,93
VP3-LB18	18,00	3,69	51,30
VP3-MB18	18,03	4,33	60,63
VP3-HB18	18,09	5,14	72,71
VP3-LB19	19,04	3,90	57,18
VP3-MB19	19,01	4,66	68,28
VP3-HB19	19,02	5,27	77,38
VP3-LB20	20,07	4,12	64,08
VP3-MB20	20,08	4,85	74,94
VP3-HB20	20,04	5,70	88,90

Comment: The DWG file containing all profile cross-sections is available on our website or upon request.





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