

ENGINEERING STRUCTURES MADE OF PRECAST ELEMENTS

CON/SPAN

INNOVATION IN BRIDGES





Engineering structures made of precast elements of CON/SPAN are used for roads, railways and industrial applications:

- bridges
- overpasses
- tunnels
- culverts
- underpasses
- pedestrian tunnels
- ecological crossings
- shelters
- underground storages

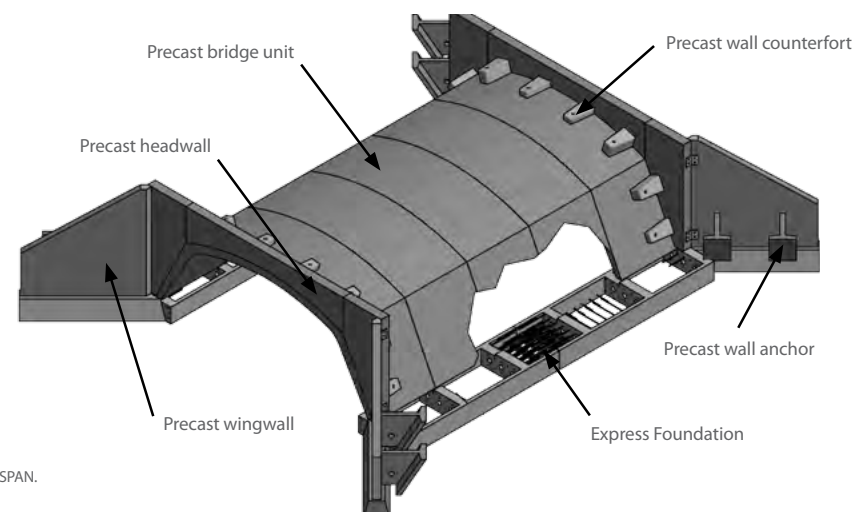


Fig. 1 Elements consists of precast buried bridge system CON/SPAN.

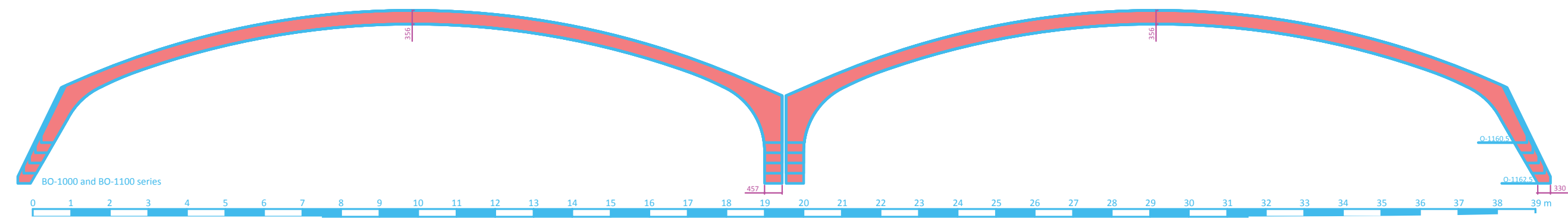
Benefits of CON/SPAN system:

- designed for all road and railway live load classes according to norm PN-85/S-10030 and PN-EN 1991-2. All system conform to AASHTO LRFD Bridge Specification
- provides ease and speed of installation
- minimal reinforcement to be placed on site
- no need to use formwork
- no connection in cross section – installation without the use of scaffolding
- possibility to make bend in plan view
- complete system, unification of design and production
- wide scope of applications
- a wide range of cross sections
- possibility of installing the CON/SPAN system after the Express Foundations are done – reduction of installation time
- possibility of using only certain elements of the system

CON/SPAN construction process:

- excavate and prepare foundation subgrade
- unload and place precast foundation sections
- place minimal reinforcing at joints to provide foundation continuity
- set precast bridge units, headwalls and wingwalls
- fill cells with cast-in-place concrete
- seal joints, grout wingwalls and backfill

Profiles of precast buried bridge systems – spans from 3,96 m to 19,80 m:

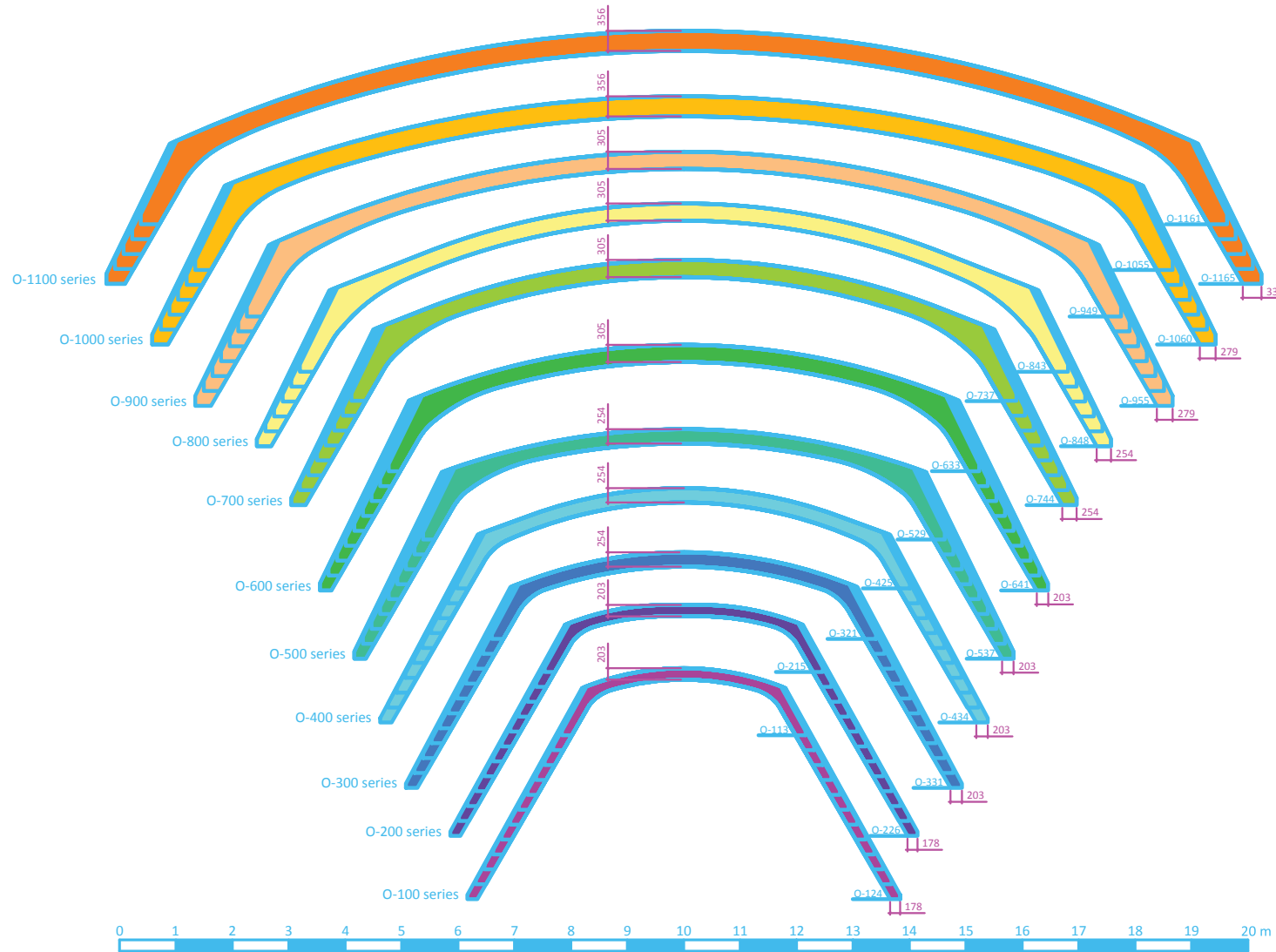


O-100 series			
Section	Dimensions		Cross section area [m²]
	Span [mm]	Height [mm]	
O-113	3962	985	3,07
O-114	4267	1250	4,18
O-115	4572	1513	5,30
O-116	4877	1777	6,60
O-117	5182	2041	7,90
O-118	5486	2305	9,29
O-119	5791	2569	10,78
O-120	6096	2833	12,36
O-121	6401	3097	14,03
O-122	6706	3361	15,79
O-123	7010	3625	17,56
O-124	7315	3889	19,42

O-200 series			
Section	Dimensions		Cross section area [m²]
	Span [mm]	Height [mm]	
O-215	4572	986	3,72
O-216	4877	1249	4,92
O-217	5182	1513	6,22
O-218	5486	1777	7,71
O-219	5791	2041	9,20
O-220	6096	2305	10,68
O-221	6401	2569	12,36
O-222	6706	2833	14,12
O-223	7010	3097	15,89
O-224	7315	3361	17,84
O-225	7620	3625	19,79
O-226	7925	3889	21,83

O-300 series			
Section	Dimensions		Cross section area [m²]
	Span [mm]	Height [mm]	
O-321	6401	1280	6,41
O-322	6706	1544	8,18
O-323	7010	1808	9,94
O-324	7315	2072	11,89
O-325	7620	2336	13,84
O-326	7925	2600	15,89
O-327	8230	2864	18,02
O-328	8534	3128	20,25
O-329	8839	3392	22,58
O-330	9144	3656	24,90
O-331	9449	3920	27,31

O-400 series			
Section	Dimensions		Cross section area [m²]
	Span [mm]	Height [mm]	
O-425	7620	1523	8,83
O-426	7925	1787	10,87
O-427	8230	2050	13,01
O-428	8534	2315	15,24
O-429	8839	2579	17,56
O-430	9144	2842	19,88
O-431	9449	3106	22,39
O-432	9754	3370	24,90
O-433	10058	3634	27,50
O-434	10363	3899	30,19



O-500 series			
Section	Dimensions		Cross section area [m²]
	Span [mm]	Height [mm]	
O-529	8839	1701	11,89
O-530	9144	1964	14,31
O-531	9449	2229	16,72
O-532	9754	2492	19,23
O-533	10059	2756	21,83
O-534	10363	3021	24,53
O-535	10668	3284	27,31
O-536	10973	3549	30,19
O-537	11278	3812	33,17

O-600 series			
Section	Dimensions		Cross section area [m²]
	Span [mm]	Height [mm]	
O-633	10058	1935	15,14
O-634	10363	2199	17,84
O-635	10668	2463	20,62
O-636	10973	2727	23,50
O-637	11278	2990	26,48
O-638	11582	3254	29,45
O-639	11887	3518	32,52
O-640	12192	3782	35,77
O-641	12497	4047	39,02

O-700 series			
Section	Dimensions		Cross section area [m²]
	Span [mm]	Height [mm]	
O-737	11278	2192	18,95
O-738	11582	2456	21,93
O-739	11887	2720	25,08
O-740	12192	2984	28,24
O-741	12497	3247	31,49
O-742	12802	3512	34,84
O-743	13106	3775	38,28
O-744	13411	4039	41,71

BO-1100 series			
Section	Dimensions		Cross section area [m²]
	Span [mm]	Height [mm]	
BO-1160,5	18428	3069	43,25
BO-1161	18593	3335	48,17
BO-1161,5	18745	3600	53,09
BO-1162	18898	3865	58,06
BO-1162,5	19050	4130	63,08

BO-1000 series			
Section	Dimensions		Cross section area [m²]
	Span [mm]	Height [mm]	
BO-1054,5	16599	2722	35,25
BO-1055	16764	2984	39,62
BO-1055,5	16916	3249	44,08
BO-1056	17069	3514	48,59
BO-1056,5	17221	3780	53,09
BO-1057	17374	4042	57,65

O-1100 series			
Section	Dimensions		Cross section area [m²]
	Span [mm]	Height [mm]	
O-1161	18563	3072	43,20
O-1162	18898	3335	48,22
O-1163	19202	3599	53,23
O-1164	19507	3863	58,34
O-1165	19812	4127	63,55

O-1000 series			
Section	Dimensions		Cross section area [m²]
	Span [mm]	Height [mm]	
O-1055	16764	2722	35,30
O-1056	17069	2985	39,76
O-1057	17374	3249	44,31
O-1058	17678	3514	48,96
O-1059	17983	3778	53,61
O-1060	18288	4041	58,44

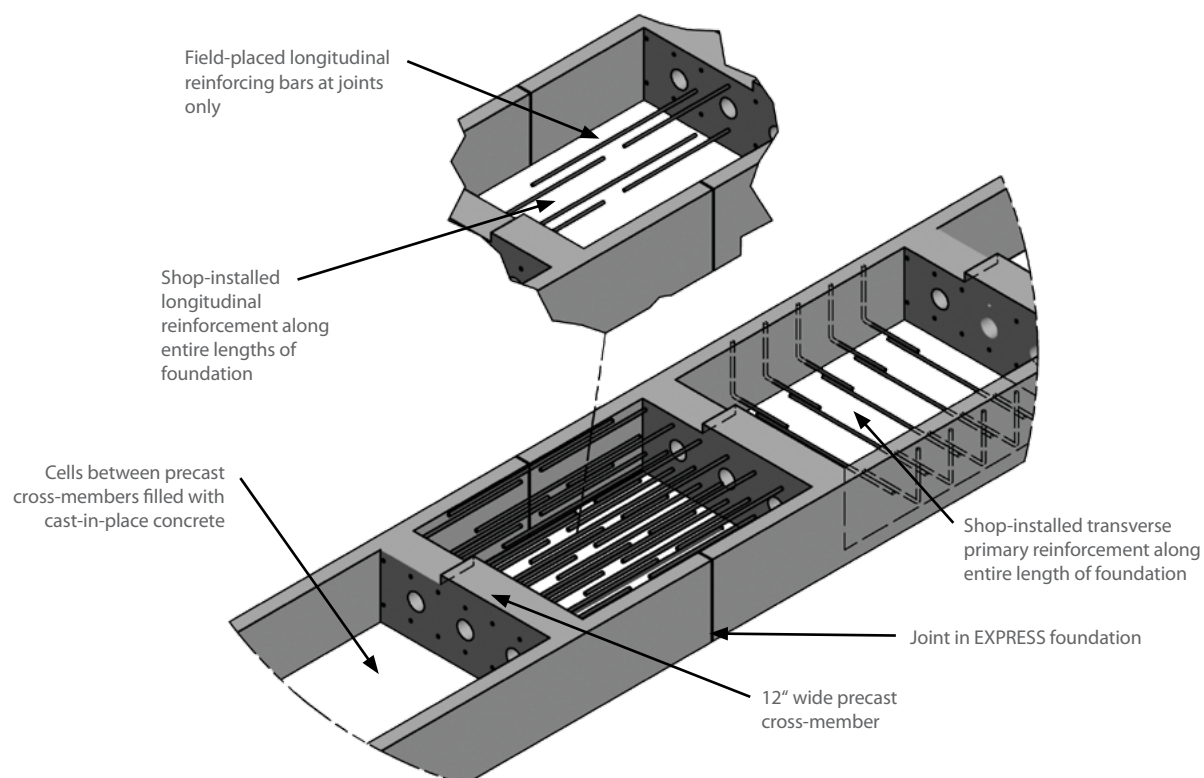
O-900 series			
Section	Dimensions		Cross section area [m²]
	Span [mm]	Height [mm]	
O-949	14935	2615	29,73
O-950	15240	2878	33,72
O-951	15545	3142	37,72
O-952	15850	3406	41,90
O-953	16154	3670	46,08
O-954	16459	3934	50,45
O-955	16764	4198	54,81

O-800 series			
Section	Dimensions		Cross section area [m²]
	Span [mm]	Height [mm]	
O-843	13106	2676	26,29
O-844	13411	2940	29,82
O-845	13716	3204	33,35
O-846	14021	3468	37,07
O-847	14326	3732	40,78
O-848	14630	3996	44,59



Express Foundations system

A precast foundation system that blends the speed of precast with the economy of cast-in-place.



Technical support from ViaCon Sp. z o.o.

Cross section of engineering structure is selected according to clearance box and required load capacity. Each time characteristic parameters for individual project are defined such as; span, height, cross section area, thickness element, precast element, width, reinforcement.

ViaCon offers full support for designing of CON/SPAN precast bridge system and well qualified assembly teams will take a comprehensive system installation on site.



INNOVATIVE INFRASTRUCTURE

SuperCor



MultiPlate MP200



UltraCor



HelCor



HelCor PA



PECOR OPTIMA



Pecor Quattro



ViaWaterTank



Geogrids



Vowen and nonwoven geotextiles



Gabions



HelCor wells



Temporary and permanent
Acrow bridges



ViaWall A



ViaWall B



ViaBlock



CON/SPAN



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