

[Attachment]



MULTISTRAND SYSTEMS

Anchorage VSL Type E

Labels: Grout Connection, Duct, Trumpet, Strand, Wedges, Anchor Head, Bearing Plate.

Dimensions and Formulas:

- $X_R = \text{Edge Distance} = \text{Maximum}$
 $(1/2 \cdot X; 1/2 \cdot H + \text{Concrete cover to spiral reinforcement})$
- $X = \text{Center Spacing}$
- $X_R = \text{Edge Distance}$

E6-42

	Unit	A	B	C	ϕD	E	ϕF	G	H	ϕJ	n	X^2
Strand 12.7mm (0.5")	5-1	70	15	45	42	70	80	90	-	10	2	90
	5-3	115	20	50	90	190	130	150	-	10	3	155
	5-4	130	20	50	95	190	160	150	51/54	10	3	180
	5-7	175	25	55	110	190	205	200	51/54	13	4	235
	5-12	230	35	60	150	370	285	250	63/66	16	5	305
	5-19	290	40	75	180	470	365	300	84/87	16	6	385
	5-22	315	45	85	190	480	395	360	87/90	19	6	415
	5-31	370	55	95	230	550	470	400	100/103	19	8	490
	5-37	405	60	-	-	570	510	420	-	19	7	535
	5-42	440	60	-	-	680	550	480	-	22	8	580
5-55	500	70	-	-	680	620	540	-	22	9	655	
Strand 15.2mm (0.6")	6-1	75	15	50	53	70	80	90	-	10	2	105
	6-2	110	15	-	-	190	130	150	-	10	3	150
	6-3	135	20	50	95	190	160	150	51/54	10	3	185
	6-4	160	25	55	110	190	190	200	51/54	13	4	210
	6-7	205	35	60	150	290	260	250	63/66	16	5	280
	6-12	270	40	75	180	460	345	300	84/87	16	6	365
	6-19	340	50	95	230	590	440	350	100/103	19	7	460
	6-22	370	55	100	230	690	470	400	110/113	19	8	495
	6-31	435	65	120	290	690	560	480	130/133	22	8	590
	6-37	480	70	-	-	830	610	540	-	22	9	640
E6-42	520	75	-	-	950	650	640	-	25	8	690	
6-55	580	90	-	-	950	740	630	-	25	9	780	

Unit : mm

- Duct dimension is for corrugated steel duct.
It could be vary with case by case.
The dimension for polyethylene duct(PT- PLUS™) is shown in Page 6.

- Dimension, spacing and reinforcement of anchorage are based on the following condition.

- (1) Concrete strength (f_c , cylinder) : 19.6MPa
- (2) 0.5" dia. strand tension load (F_{pk}) : 183.4 kN
- (3) 0.6" dia. strand tension load (F_{pk}) : 260.9 kN
- (4) Yield strength of reinforcement (f_y) : 392.3 MPa (SD 40)