

ELECTRICAL SUBMITTALS

Site Components Only



Electric Service, Inc.

**For the Battelle Biological and
Computational Sciences Facility**

Richland, WA.

2008

Owner:	The Cowperwood Company
Architect:	Kaplan McLaughlin Diaz
Electrical Engineer:	Flack + Kurtz
General Contractor:	Harvey-Cleary Builders
Electrical Contractor:	Magnum Electric Service, Inc.

**ELECTRICAL SUBMITTALS FOR THE SITE
COMPONENTS OF:**

Battelle BSF/CSF Facility

PACKAGE CONTENTS

<u>Section (subsection)</u>	<u>Description</u>	<u>Consists of</u>
1	Raceways and Boxes	
(1)	PVC Conduit and Fittings	Schedule 40 & 80 PVC conduit, elbows (both standard and long radius), couplings, adaptors and terminators
(2)	Rigid Metallic Elbows	Rigid steel elbows (both standard and long radius), couplings, and nipples
2	Vaults and pole bases	Communication vaults with their covers, terminal cabinet vaults with their covers, transformer vaults with their covers, light pole bases.

Section 260533

Raceways and Boxes

Note: The brands shown are representative for type only. We may use different manufacturers, depending upon which vendor is low quote on the commodities.

Subsection 1:

Rigid nonmetallic conduit and fittings

Carlton® Rigid Nonmetallic Conduit (RNC), Fittings & Accessories

Carlton® manufactures the most complete line of nonmetallic conduits and fittings in the electrical industry. Carlton Schedule 40 and Schedule 80 conduits are designed for use aboveground and underground as described in the National Electrical Code. Specify only Carlton conduits and fittings to insure raceway system integrity.

Features

Ease of Installation Nonmetallic conduits are 1/4 to 1/5 the weight of metallic systems, can be installed in less than half the time, and are easily fabricated on the job.

Safety Nonmetallic conduits are nonconductive, assuring a safe system.

Impact Resistant Carlton Schedule 40 and Schedule 80 nonmetallic conduits are resistant to sunlight and are listed for exposed or outdoor usage. The use of expansion fittings allows the system to expand and contract with temperature variations.

Corrosion Resistant Carlton conduits and fittings are nonmetallic and will not rust or corrode.

Carlton nonmetallic Schedule 40 and Schedule 80 conduits and elbows are manufactured to NEMA TC-2, Federal specification WC1094A and UL 651 specifications. Fittings are manufactured to NEMA TC-3, Federal specification WC1094A and UL 651. Both conduit and fittings carry respective UL or ETL Listings and UL or ETL labels.

Carlton Schedule 40 PVC Rigid Nonmetallic Conduit (RNC). (Heavy Wall EPC)

Listed for underground applications encased in concrete or direct burial. Also for use in exposed or concealed applications aboveground.

- Sunlight resistant • Rated for use with 90°C conductors
- Superior weathering characteristics • Made in USA



ETL Listed to UL 651 in compliance to the NEC



LISTED E35297

RUS Accepted

Schedule 40 Heavy Wall

Part No.		Trade Size	Std. Crate Qty.		Wt. Per 100'	Dimensions		
10'	20'		10'	20'		O.D.	I.D.	Wall
49005-010		1/2"	6000'		17	.840	.622	.109
49007-010	49007-020	3/4"	4400'	8800'	23	1.050	.824	.113
49008-010	49008-020	1"	3600'	7200'	34	1.315	1.049	.133
49009-010	49009-020	1 1/4"	3300'	6600'	46	1.660	1.380	.140
49010-010	49010-020	1 1/2"	2250'	4500'	55	1.900	1.610	.145
49011-010	49011-020	2"	1400'	2800'	73	2.375	2.067	.154
49012-010	49012-020	2 1/2"	930'	1860'	124	2.875	2.469	.203
49013-010	49013-020	3"	880'	1760'	163	3.500	3.068	.216
49014-010	49014-020	3 1/2"	630'	1260'	196	4.000	3.548	.226
49015-010	49015-020	4"	570'	1140'	232	4.500	4.026	.237
49016-010	49016-020	5"	380'	760'	315	5.563	5.047	.258
49017-010	49017-020	6"	260'	520'	409	6.625	6.065	.280

Rigid nonmetallic conduit is normally supplied in standard 10' lengths, with one belled end per length. For specific requirements, it may be produced in lengths shorter or longer than 10', with or without belled ends.

Use RNC Fittings with Schedule 40 and Schedule 80 Conduit.

- Notes: 1. Special fittings and conduit sizes will be quoted on request.
 2. DON'T FORGET TO ORDER CEMENT.
 3. Carlton reserves the right to ship to the nearest unitized quantity.



Rigid Nonmetallic Conduit – Support in Aboveground Installations

Carlson Schedule 80 PVC Rigid Nonmetallic Conduit (RNC) (Extra Heavy Wall EPC-80)

Listed for use in aboveground and belowground applications including areas subject to physical damage.

- Sunlight resistant • Rated for use with 90°C conductors • Superior weathering characteristics
- Identified for use in areas subject to physical damage in accordance to 352.12(C)



RUS Accepted

With Integral Bell*



Schedule 80 Extra Heavy Wall

Part No.		Trade Size	Std. Crate Qty.		Wt. Per 100'	Dimensions		
10'	20'		10'	20'		O.D.	I.D.	Wall
49405-010	49405-020	1/2"	6000'	12000'	21	.840	.546	.147
49407-010	49407-020	3/4"	4400'	8000'	30	1.050	.742	.154
49408-010	49408-020	1"	3600'	7200'	44	1.315	.957	.179
49409-010	49409-020	1 1/4"	3300'	6600'	60	1.660	1.278	.191
49410-010	49410-020	1 1/2"	2250'	3600'	72	1.900	1.500	.200
49411-010	49411-020	2"	1400'	2800'	101	2.375	1.939	.218
49412-010	49412-020	2 1/2"	930'	1880'	154	2.875	2.323	.276
49413-010	49413-020	3"	880'	1760'	210	3.500	2.900	.300
49415-010	49415-020	4"	570'	1140'	308	4.500	3.826	.337
49416-010	—	5"	380'	—	428	5.563	4.813	.375
49417-010	49417-020	6"	260'	520'	588	6.625	5.761	.432

Rigid nonmetallic conduit is normally supplied in standard 10' lengths, with one belled end per length. For specific requirements, it may be produced in lengths shorter or longer than 10', with or without belled ends.

Use RNC Fittings with Schedule 40 and Schedule 80 Conduit.

- Notes: 1. Special fittings and conduit sizes will be quoted on request.
2. DON'T FORGET TO ORDER CEMENT.
3. Carlson reserves the right to ship to the nearest unitized quantity.

Support of Carlson Rigid Nonmetallic Conduit in Aboveground Installations

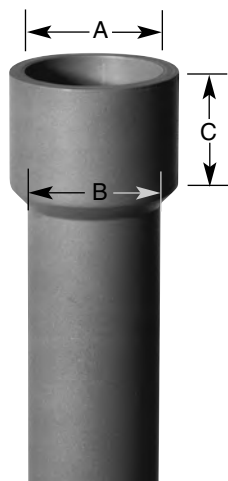
Table 352.30(B) NEC shows the support requirements for Schedule 40 and Schedule 80 rigid PVC nonmetallic conduit.

Plastic conduit should always be installed away from steam lines, etc. Support straps should allow for lineal movement caused by expansion and contraction.

Maximum ambient temperature is 122°F (50°C).

Table 352.30(B), NEC

Trade Size	Maximum Spacing Between Supports (feet)
1/2 - 1	3
1 1/4 - 2	5
2 1/2 - 3	6
3 1/2 - 5	7
6	8



Acceptable Dimensions in Inches of Integral Bell per UL 651

Trade Size	A At Entrance (in.)		B At Bottom (in.)		C Nominal Bell Depth (in.)
	Maximum	Minimum	Maximum	Minimum	
1/2	0.860	0.844	0.844	0.828	1.375
3/4	1.074	1.054	1.056	1.036	1.500
1	1.340	1.320	1.320	1.300	1.750
1 1/4	1.689	1.665	1.667	1.643	1.875
1 1/2	1.930	1.906	1.906	1.882	2.750
2	2.405	2.381	2.381	2.357	3.250
2 1/2	2.905	2.875	2.883	2.853	3.250
3	3.530	3.500	3.507	3.477	3.875
3 1/2	4.065	3.965	4.007	3.977	3.875
4	4.565	4.465	4.506	4.476	4.625
5	5.643	5.543	5.583	5.523	5.625
6	6.708	6.608	6.644	6.584	6.375

Rigid Nonmetallic Conduit – Elbows



ETL Listed
to UL 651 in
compliance to
the NEC



LISTED
E35297

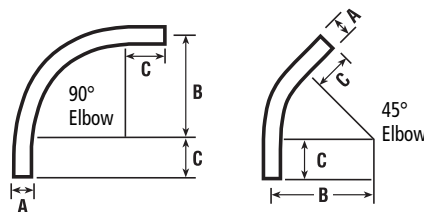
Schedule 40 Elbows Standard Radius

Available in plain and integral belled end for use with nonmetallic solvent weld fittings.

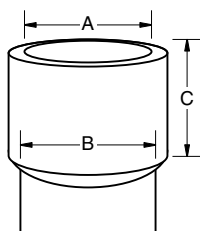
Item	Plain End Part No.	Belled End Part No.	Size	Plain End Std. Ctn. Qty.	Belled End Std. Ctn. Qty.
90° Elbow 	UA9AD	UA9ADB	1/2"	50	50
	UA9ADR-CAR	UA9ADB	1/2"	25	50
	UA9AE	UA9AEB	3/4"	25	25
	UA9AFR-CTN	UA9AFB-CTN	1"	25	25
	UA9AG	UA9AGB	1 1/4"	20	20
	UA9AH	UA9AHB	1 1/2"	25	25
	UA9AJ	UA9AJB	2"	20	20
	UA9AK-CAR	UA9AKB-CAR	2 1/2"	10	10
	UA9AL	UA9ALB	3"	1	5
	UA9AM	UA9AMB	3 1/2"	1	20
	UA9AN	UA9ANB	4"	1	1
	UA9AP	UA9APB	5"	1	1
	UA9AR	UA9ARB	6"	1	1
	45° Elbow 	UA7AD	UA7ADB	1/2"	50
UA7AE		UA7AEB	3/4"	25	25
UA7AF		UA7AFB	1"	20	20
UA7AF-CAR		UA7AFB	1"	15	20
UA7AG		UA7AGB	1 1/4"	20	20
UA7AH		UA7AHB	1 1/2"	20	20
UA7AJ		UA7AJB	2"	20	20
UA7AJ-CAR		-	2"	4	4
UA7AK		UA7AKB	2 1/2"	20	20
UA7AL		UA7ALB	3"	5	25
UA7AM		UA7AMB	3 1/2"	1	20
UA7AN		UA7ANB	4"	1	20
UA7AP		UA7APB	5"	1	1
UA7AR		UA7ARB	6"	1	1
30° Elbow 	UA6AD	UA6ADB	1/2"	50	50
	UA6AE	UA6AEB	3/4"	25	25
	UA6AF	UA6AFB	1"	25	1
	UA6AG	UA6AGB	1 1/4"	20	20
	UA6AH	UA6AHB	1 1/2"	25	1
	UA6AJ	UA6AJB	2"	20	20
	UA6AK	UA6AKB	2 1/2"	10	20
	UA6AL	UA6ALB	3"	1	1
	UA6AM	UA6AMB	3 1/2"	1	1
	UA6AN	UA6ANB	4"	1	1
	UA6AP	UA6APB	5"	1	1
	UA6AR	UA6ARB	6"	1	1

Item	Plain End Part No.	Belled End Part No.	Size	Plain End Std. Ctn. Qty.	Belled End Std. Ctn. Qty.
22 1/2° Elbow 	UA5AD	-	1/2"	1	-
	UA5AE	-	3/4"	1	-
	UA5AF	-	1"	1	-
	UA5AG	-	1 1/4"	1	-
	UA5AH	-	1 1/2"	1	-
	UA5AJ	UA5AJB	2"	25	1
	UA5AK	-	2 1/2"	20	-
	UA5AL	UA5ALB	3"	5	1
	UA5AM	-	3 1/2"	1	-
	UA5AN	UA5ANB	4"	1	1
UA5AP	UA5APB	5"	1	1	
UA5AR	UA5ARB	6"	1	1	
11 1/4° Elbow 	UA3AD	-	1/2"	1	-
	UA3AE	-	3/4"	1	-
	UA3AF	-	1"	1	-
	UA3AG	-	1 1/4"	1	-
	UA3AH	-	1 1/2"	1	-
	UA3AJ	-	2"	1	-
	UA3AK	-	2 1/2"	1	-
	UA3AL	-	3"	1	-
	UA3AM	-	3 1/2"	1	-
	UA3AN	UA3ANB	4"	1	1
UA3AP	-	5"	1	-	
UA3AR	-	6"	1	-	

Standard Radius Elbow Dimensions



Integral Belled End Dimensions



Trade Size	A		B		C	
	At Entrance Max.	Min.	At Bottom Max.	Min.	Socket Depth Max.	Min.
1/2"	.860	0.844	0.844	0.828	1.500	0.652
3/4"	1.074	1.054	1.056	1.036	1.500	0.719
1"	1.340	1.320	1.320	1.300	1.875	0.875
1 1/4"	1.689	1.665	1.667	1.643	2.000	0.938
1 1/2"	1.930	1.906	1.906	1.882	2.000	1.062
2"	2.405	2.381	2.381	2.357	2.000	1.125
2 1/2"	2.905	2.875	2.883	2.853	3.000	1.469
3"	3.530	3.500	3.507	3.477	3.125	1.594
3 1/2"	4.065	3.965	4.007	3.977	3.250	1.687
4"	4.565	4.465	4.506	4.476	3.375	1.750
5"	5.643	5.543	5.583	5.523	3.625	1.937
6"	6.708	6.608	6.644	6.584	3.750	2.125

Size	A	B Min. (Radius)	C Min.
1/2"	.840	4"	1 1/2"
3/4"	1.050	4 1/2"	1 1/2"
1"	1.315	5 3/4"	1 7/8"
1 1/4"	1.660	7 1/4"	2"
1 1/2"	1.900	8 1/4"	2"
2"	2.375	9 1/2"	2"
2 1/2"	2.875	10 1/2"	3"
3"	3.500	13"	3 1/8"
3 1/2"	4.000	15"	3 1/4"
4"	4.500	16"	3 3/8"
5"	5.563	24"	3 5/8"
6"	6.625	30"	3 3/4"

Rigid Nonmetallic Conduit – Elbows

Schedule 40 Elbows Special Radius

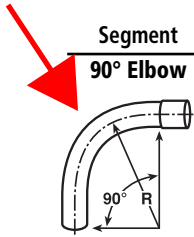
*Consult factory for additional sizes/configurations



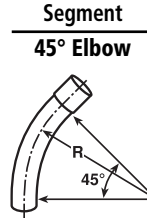
ETL Listed to UL 651 in compliance to the NEC



LISTED E35297



Segment	Plain End Part No.	Belled End Part No.	Nom. Diam.	Radius (in.)	Plain End Std. Ctn. Qty.	Belled End Std. Ctn. Qty.
90° Elbow	UA9CF	UA9CFB	1"	18"	1	1
	UA9DF	UA9DFB	1"	24"	1	1
	UA9EF	UA9EFB	1"	30"	1	1
	UA9FF	–	1"	36"	1	–
	UA9HF	–	1"	48"	1	–
	UA9CG	UA9CGB	1 1/4"	18"	1	1
	UA9DG	UA9DGB	1 1/4"	24"	1	1
	UA9EG	UA9EGB	1 1/4"	30"	1	1
	UA9FG	UA9FGB	1 1/4"	36"	1	1
	UA9HG	–	1 1/4"	48"	1	–
	UA9CH	UA9CHB	1 1/2"	18"	1	1
	UA9DH	UA9DHB	1 1/2"	24"	1	1
	UA9EH	UA9EHB	1 1/2"	30"	1	1
	UA9FH	UA9FHB	1 1/2"	36"	1	1
	UA9HH	–	1 1/2"	48"	1	–
	UA9CJ	UA9CJB	2"	18"	1	1
	UA9DJ	UA9DJB-UPC	2"	24"	1	1
	UA9EJ	UA9EJB	2"	30"	1	1
	UA9FJ-UPC	UA9FJB	2"	36"	1	1
	UA9HJ	UA9HJB	2"	48"	1	1
	UA9JJ	–	2"	72"	1	–
	UA9CK	UA9CKB	2 1/2"	18"	1	1
	UA9DK	UA9DKB-UPC	2 1/2"	24"	1	1
	UA9EK	UA9EKB	2 1/2"	30"	1	1
	UA9FK-UPC	UA9FKB	2 1/2"	36"	1	1
	UA9HK	UA9HKB	2 1/2"	48"	1	1
	UA9CL	UA9CLB	3"	18"	1	1
	UA9DL	UA9DLB-UPC	3"	24"	1	1
	UA9EL	UA9ELB	3"	30"	1	1
	UA9FL	UA9FLB	3"	36"	1	1
	UA9HL	UA9HLB	3"	48"	1	1
	UA9IL	–	3"	60"	1	–
	UA9DM	UA9DMB	3 1/2"	24"	1	1
	UA9EM	UA9EMB	3 1/2"	30"	1	1
	UA9FM	UA9FMB	3 1/2"	36"	1	1
	UA9HM	UA9HMB	3 1/2"	48"	1	1
	–	UA9CNB	4"	18"	–	1
	UA9DN	UA9DNB	4"	24"	1	1
	UA9EN	UA9ENB	4"	30"	1	1
	UA9FN	UA9FNB	4"	36"	1	1
	UA9HN	UA9HNB	4"	48"	1	1
	UA9IN	UA9INB	4"	60"	1	1
	UA9JN	–	4"	72"	1	1
	UA9EP	UA9EPB	5"	30"	1	1
	UA9FP	UA9FPB	5"	36"	1	1
	UA9HP	UA9HPB	5"	48"	1	1
	UA9IP	UA9IPB	5"	60"	1	1
	UA9FR	UA9FRB	6"	36"	1	1
	UA9HR	UA9HRB	6"	48"	1	1
	UA9IR	UA9IRB	6"	60"	1	1
	–	UA9TRB	6"	180"	–	1
	UA9HT	–	8"	48"	1	1



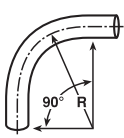
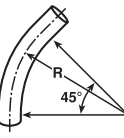
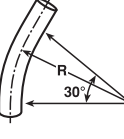
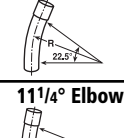
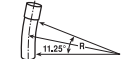
Segment	Plain End Part No.	Belled End Part No.	Nom. Diam.	Radius (in.)	Plain End Std. Ctn. Qty.	Belled End Std. Ctn. Qty.
45° Elbow	UA7CF	–	1"	18"	1	–
	UA7DF	–	1"	24"	1	–
	UA7EF	–	1"	30"	1	–
	UA7FF	–	1"	36"	1	–
	UA7HF	–	1"	48"	1	–
	UA7CG	–	1 1/4"	18"	1	–
	UA7DG	–	1 1/4"	24"	1	–
	UA7EG	–	1 1/4"	30"	1	–
	UA7FG	–	1 1/4"	36"	1	–
	UA7HG	–	1 1/4"	48"	1	–
	UA7CH	–	1 1/2"	18"	1	–
	UA7DH	–	1 1/2"	24"	1	–
	UA7EH	–	1 1/2"	30"	1	–
	UA7FH	UA7FHB	1 1/2"	36"	1	1
	UA7HH	–	1 1/2"	48"	1	–
	–	UA7BJB	2"	12"	–	1
	UA7CJ	UA7CJB	2"	18"	1	1
	UA7DJ	UA7DJB	2"	24"	1	1
	UA7EJ	UA7EJB	2"	30"	1	1
	UA7FJ	UA7FJB	2"	36"	1	1
	UA7HJ	UA7HJB	2"	48"	1	1
	UA7SJ	–	2"	150"	1	–
	UA7CK	–	2 1/2"	18"	1	–
	UA7DK	UA7DKB	2 1/2"	24"	1	1
	UA7EK	–	2 1/2"	30"	1	–
	UA7FK	UA7FKB	2 1/2"	36"	1	1
	UA7HK	–	2 1/2"	48"	1	–
	UA7CL	UA7CLB	3"	18"	1	1
	UA7DL	UA7DLB	3"	24"	1	1
	UA7EL	UA7ELB	3"	30"	1	1
	UA7FL	UA7FLB	3"	36"	1	1
	UA7HL	UA7HLB	3"	48"	1	1
	UA7DM	–	3 1/2"	24"	1	–
	UA7EM	–	3 1/2"	30"	1	–
	UA7FM	–	3 1/2"	36"	1	–
	UA7DN	UA7DNB	4"	24"	1	1
	UA7EN	UA7ENB	4"	30"	1	1
	UA7FN	UA7FNB	4"	36"	1	1
	UA7HN	UA7HNB	4"	48"	1	1
	–	UA7NNB	4"	120"	–	1
	UA7SN	UA7SNB	4"	150"	1	–
	UA7EP	UA7EPB	5"	30"	1	1
	UA7FP	UA7FPB	5"	36"	1	1
	UA7HP	UA7HPB	5"	48"	1	1
	–	UA7IPB	5"	60"	–	1
	–	UA7NPB	5"	120"	–	1
	–	UA7SPB	5"	150"	–	1
	UA7FR	UA7FRB	6"	36"	1	1
	UA7HR	UA7HRB	6"	48"	1	1
	UA7FT	–	8"	36"	1	–
	UA7HT	–	8"	48"	1	–

Note: Elbows 72" and larger may be shipped in segments. Consult factory for specifics.

Rigid Nonmetallic Conduit – Elbows

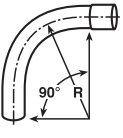
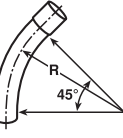
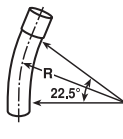
Schedule 80 Elbows Standard Radius

For use with nonmetallic solvent weld fittings.

Item	Plain End Part No.	Belled End Part No.	Size	Plain End Std. Ctn. Qty.	Belled End Std. Ctn. Qty.
90° Elbow	UB9AD	-	1/2"	50	-
	UB9AE	-	3/4"	25	-
	UB9AF	-	1"	25	-
	UB9AG	-	1 1/4"	20	-
	UB9AH	-	1 1/2"	25	-
	UB9AJ	-	2"	20	-
	UB9AK	-	2 1/2"	10	-
	UB9AL	-	3"	5	-
	UB9AN	-	4"	1	-
	UB9AP	UB9APB	5"	1	1
	UB9AR	-	6"	1	-
	45° Elbow	UB7AD	-	1/2"	50
UB7AE-UPC		-	3/4"	25	-
UB7AF-UPC		-	1"	20	-
UB7AG		-	1 1/4"	20	-
UB7AH		-	1 1/2"	20	-
UB7AH-CAR		-	1 1/2"	5	-
UB7AJ-UPC		-	2"	20	-
UB7AK		-	2 1/2"	20	-
UB7AL		-	3"	1	-
UB7AN		-	4"	1	-
UB7AP		UB7APB	5"	1	1
UB7AR		-	6"	1	-
30° Elbow	UB6AD	-	1/2"	50	-
	UB6AE	-	3/4"	25	-
	UB6AF	-	1"	25	-
	UB6AG	-	1 1/4"	5	-
	UB6AH	-	1 1/2"	25	-
	UB6AJ	-	2"	20	-
	UB6AK	-	2 1/2"	1	-
	UB6AL	-	3"	1	-
	UB6AN	-	4"	1	-
	UB6AP	-	5"	1	-
UB6AR	-	6"	1	-	
22 1/2° Elbow	UB5AL	-	3"	5	-
	UB5AN	-	4"	1	-
11 1/4° Elbow	UB3AL	-	3"	1	-
	UB3AR	-	6"	1	-

Special Radius

Segment	Plain End Part No.	Belled End Part No.	Nom. Diam.	Radius (in.)	Plain End Std. Ctn. Qty.	Belled End Std. Ctn. Qty.
90° Elbow	UB9CF	-	1"	18"	1	-
	UB9DF	-	1"	24"	1	-
	UB9FF	-	1"	36"	1	-
	UB9HF	-	1"	48"	1	-
	UB9CG	-	1 1/4"	18"	1	-
	UB9DG	-	1 1/4"	24"	1	-
	UB9FG	-	1 1/4"	36"	1	-
	UB9HG	-	1 1/4"	48"	1	-
	UB9CH	-	1 1/2"	18"	1	-
	UB9DH-UPC	UB9DHB	1 1/2"	24"	1	1
	UB9FH	-	1 1/2"	36"	1	-
	UB9HH	-	1 1/2"	48"	1	-
	UB9CJ	-	2"	18"	1	-
	UB9DJ-UPC	UB9DJB	2"	24"	1	1
	UB9FJ	UB9FJB	2"	36"	1	1
	UB9HJ	-	2"	48"	1	-
	UB9CK	-	2 1/2"	18"	1	-
	UB9DK-UPC	UB9DKB	2 1/2"	24"	1	1
	UB9FK	UB9FKB	2 1/2"	36"	1	1
	UB9HK	-	2 1/2"	48"	1	-
	UB9CL	-	3"	18"	1	-
	UB9DL	UB9DLB	3"	24"	1	1
	UB9FL	UB9FLB	3"	36"	1	1
	UB9HL	-	3"	48"	1	-
	UB9DN	UB9DNB	4"	24"	1	1
	UB9FN	UB9FNB	4"	36"	1	1
	UB9HN	UB9HNB	4"	48"	1	1
	UB9NN	-	4"	120"	1	-
UB9FP	-	5"	36"	1	-	
UB9HP	-	5"	48"	1	-	
UB9IP	-	5"	60"	1	-	
UB9FR	-	6"	36"	1	-	
UB9HR	-	6"	48"	1	-	
UB9IR	-	6"	60"	1	-	
45° Elbow	UB7CF	-	1"	18"	1	-
	UB7DF	-	1"	24"	1	-
	UB7FF	-	1"	36"	1	-
	UB7HF	-	1"	48"	1	-
	UB7DG	-	1 1/4"	24"	1	-
	UB7FG	-	1 1/4"	36"	1	-
	UB7HG	-	1 1/4"	48"	1	-
	UB7CH	-	1 1/2"	18"	1	-
	UB7DH	UB7DHB	1 1/2"	24"	1	1
	UB7FH	-	1 1/2"	36"	1	-
	UB7HH	-	1 1/2"	48"	1	-
	UB7CJ	-	2"	18"	1	-
	UB7DJ	UB7DJB	2"	24"	1	1
	UB7FJ	UB7FJB	2"	36"	1	1
	UB7HJ	-	2"	48"	1	-
	UB7DK	UB7DKB	2 1/2"	24"	1	1
	UB7FK	-	2 1/2"	36"	1	-
	UB7HK	-	2 1/2"	48"	1	-
	UB7CL	-	3"	18"	1	-
	UB7DL	UB7DLB	3"	24"	1	1
	UB7FL	UB7FLB	3"	36"	1	1
	UB7HL	-	3"	48"	1	-
	UB7DN	UB7DNB	4"	24"	1	1
	UB7FN	UB7FNB	4"	36"	1	1
	UB7HN	-	4"	48"	1	-
	UB7FP	-	5"	36"	1	-
	UB7HP	-	5"	48"	1	-
	UB7FR	-	6"	36"	1	-
UB7HR	-	6"	48"	1	-	
UB7IR	-	6"	60"	1	-	
30° Elbow	UB6FN	-	4"	36"	1	-
	UB6FR	-	6"	36"	1	-
22 1/2° Elbow	-	UB5DHB	1 1/2"	24"	-	20
	-	UB5DJB	2"	24"	-	20
	-	UB5FJB	2"	36"	-	25
	-	UB5DKB	2 1/2"	24"	-	15
	UB5DL	UB5DLB	3"	24"	1	10
	-	UB5FLB	3"	36"	-	1
	UB5DN	UB5DNB	4"	24"	1	5
	-	UB5FNB	4"	36"	-	1
	UB5FP	-	5"	36"	1	-
	UB5FR	-	6"	36"	1	-
11 1/4° Elbow	UB3FP	-	5"	36"	1	-



ETL Listed to UL 651 in compliance to the NEC



E35297

Flexible PVC Elbows

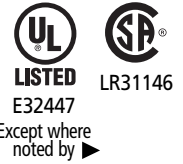


- UL listed for exposed and direct burial applications in accordance with Article 356 of the NEC
- 0° - 90° bending and offset applications
- O-ring seal for moisture tight connections
- Maintains round shape throughout bend
- Sunlight resistant
- Non-corrosive – all PVC and Neoprene material
- Fully assembled and ready to use

Part No.	Size	Std. Ctn. Qty.	Std. Ctn. Wt. (lbs.)	Length Fully Assembled
UAFAD	1/2"	8	1.6	8.5"
UAFAE	3/4"	6	1.9	9.6"
UAFAF	1"	6	2.4	11.9"

Note: Elbows 72" and larger may be shipped in segments. Consult factory for specifics.

Rigid Nonmetallic Conduit – Fittings (for use with Schedule 40 & 80 conduit)



Couplings

Special Long Line Couplings — Sleeve Couplings



Sleeve Coupling (For Repair Work)
No Internal Stop

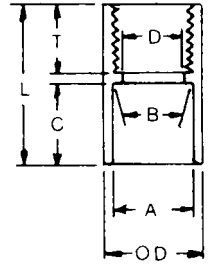
Part No.	Size	Std. Ctn. Qty.	Std. Ctn. Wt. (lbs.)	Length
▶ E948H	1 1/2	25	6	4"
▶ E948J	2	25	5	3"
▶ E948K	2 1/2	25	16	6"
▶ E948L	3	25	13	4"
▶ E948N	4	10	8	6.5"
▶ E948P	5	14	33	7"
▶ E948R	6	6	16	6"
▶ E948JR	2	15	8	6"
▶ E948JS	2" (Sch. 40 Split Duct)	25	6	
▶ E948KS7	2 1/2" (Sch. 40 Split Duct)	25	19	7"
▶ E948L12	3	1	1	12"
▶ E948L6	3	15	15	6"
▶ E948LS	3" (Sch. 40 Split Duct)	25	17	
▶ E948N12	4	10	28	12"
▶ E948N7	4	15	25	7"
▶ E948NS	4" (Sch. 40 Split Duct)	10	15	
▶ E948PS	5" (Sch. 40 Split Duct)	1	2	
▶ E948R10	6	6	25	10"
▶ E948R12	6	6	25	12"
▶ E948RS	6" (Sch. 40 Split Duct)	1	2	

Adapters

Female Adapters



For adapting nonmetallic conduits to threaded fittings, metallic systems. Female threads on one end, socket end on other.



Part No.	Size	Std. Ctn. Qty.	A Typical	B Typical	Min. D	Max. OD	C Typical	T Typical	L Typical
E942D	1/2	150	.852	.836	.620	1 7/64	1 1/16	3/4	1 9/16
E942E	3/4	100	1.064	1.046	.822	1 5/16	1 3/16	3/4	1 5/8
E942F	1	50	1.330	1.310	1.046	1 5/8	1 5/16	7/8	1 15/16
E942G	1 1/4	30	1.677	1.655	1.377	1 63/64	1	7/8	2
E942H	1 1/2	25	1.918	1.894	1.607	2 5/32	1 1/8	7/8	2 7/32
E942J	2	30	2.393	2.369	2.064	2 47/64	1 3/16	1	2 5/16
E942K	2 1/2	20	2.890	2.868	2.450	3 11/32	1 5/8	1 1/8	2 15/16
E942L	3	25	3.515	3.492	3.000	3 31/32	1 3/4	1 1/8	3 1/16
E942M	3 1/2	20	4.015	3.992	3.500	4 1/2	1 7/8	1 1/8	3 1/4
E942N	4	15	4.515	4.491	4.000	5 1/64	1 3/4	1 1/16	3 13/64
▶ E942NX9*	4	15	(Call for information)						
E942P	5	8	5.593	5.553	5.047	6 1/4	1 15/16	1 1/16	3 3/16
E942R	6	6	6.658	6.614	6.055	7 1/4	2 1/8	1 1/16	3 3/8
▶ E942RX*	6	6	(Call for information)						

* Long Line Adapter

Special Schedule 40 Swedge Couplings

*Consult factory for additional sizes

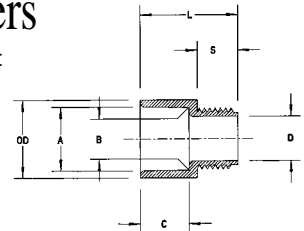


Part No.	Size	Std. Ctn. Qty.	Std. Ctn. Wt. (lbs.)
▶ E442K	2 1/2	20	13
▶ E442R	6	6	27
▶ E442T	8	2	17

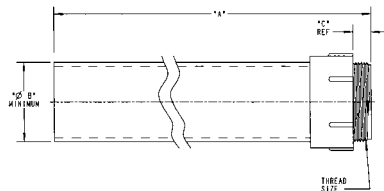
Male Terminal Adapters



For adapting nonmetallic conduits to boxes, threaded fittings, metallic systems. Male threads on one end, socket end on other.



Risers Schedule 40

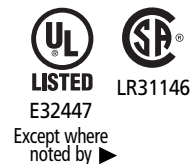


Part No.	Size	A (Length)	B (Min.)	C	Thread Size	Std. Ctn. Qty.	Std. Ctn. Wt. (lbs.)
▶ E954HX	1 1/2	80.00	1.567	.950	1 1/2" NPT	1	3.8
▶ E954J	2	60.00	2.024	.825	2" NPT	1	3.7
▶ E954JX	2	80.00	2.024	.825	2" NPT	1	5.0
▶ E954K	2 1/2	60.00	2.418	.812	2 1/2" NPSC	1	6.0
▶ E954KX	2 1/2	80.00	2.418	.812	2 1/2" NPSC	1	8.4
▶ E954L	3	60.00	3.012	.798	3" NPSC	1	8.7
▶ E954LX	3	80.00	3.012	.798	3" NPSC	1	11.0

Part No.	Size	Std. Ctn. Qty.	A Typical	B Typical	Min. D	Max. OD	C Typical	S Typical	L Typical
E943D	1/2	150	.852	.836	.594	1.042	.652	.545	1.310
E943E	3/4	125	1.064	1.046	.793	1.290	.809	.553	1.470
E943F	1	50	1.330	1.310	1.025	1.580	.965	.812	1.902
E943G	1 1/4	50	1.677	1.655	1.345	1.973	1.208	.816	1.986
E943H	1 1/2	25	1.918	1.894	1.574	2.188	1.155	.802	2.105
E943J	2	50	2.393	2.369	1.998	2.713	1.145	.825	2.093
E943K	2 1/2	25	2.890	2.868	2.400	3.290	1.490	.812	2.480
E943L	3	45	3.515	3.492	2.989	3.965	1.643	.797	2.660
E943M	3 1/2	30	4.015	3.992	3.405	4.515	1.720	.802	2.740
E943N	4	20	4.515	4.491	3.895	5.065	1.788	.733	2.830
E943P	5	5	5.593	5.553	4.900	6.104	1.935	.990	3.200
E943R	6	10	6.658	6.614	5.900	7.288	2.128	.985	3.410

Rigid Nonmetallic Conduit – Fittings (for use with Schedule 40 & 80 conduit)

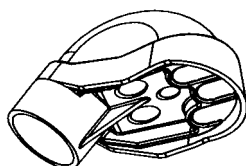
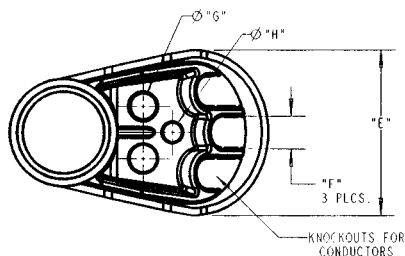
Caps



Service Entrance Caps



Part No.	Size	Std. Ctn. Qty.	Dimensions (in.)			
			E	F	G	H
E998D	1/2	5	1.76	.45	.45	–
E998E	3/4	20	1.76	.45	.45	–
E998E-CAR	3/4	5	1.76	.45	.45	–
E998F	1	15	2.26	.59	.58	–
E998F-CAR	1	5	2.26	.59	.58	–
E998G-CAR	1 1/4	5	3.52	.74	.71	.50
E998H-CAR	1 1/2	5	3.52	.74	.71	.50
E998J-CAR	2	5	4.26	.83	.78	.56
E998K-UPC	2 1/2	2	7.47	1.70	1.31	1.00
E998L	3	2	7.47	1.70	1.31	1.00
E998N	4	2	10.45	2.25	1.88	1.31



End Caps



Part No.	Size	Std. Ctn. Qty.	Std. Ctn. Wt. (lbs.)
▶ E958D	1/2	100	3
▶ E958E	3/4	100	4
▶ E958F	1	75	5
▶ E958G	1 1/4	40	4
▶ E958H	1 1/2	30	4
▶ E958J	2	25	5
▶ E958K	2 1/2	10	4
▶ E958L	3	10	5
▶ E958N	4	5	17
▶ E958P	5	5	11
▶ E958R	6	5	13

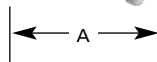
PVC Riser Caps



Part No.	Size	Std. Ctn. Qty.	Std. Ctn. Wt. (lbs.)
▶ E935J	2	25	3
▶ E935L	3	25	5
▶ E935N	4	25	7
▶ E935P	5	25	35
▶ E935R	6	10	7

Offsets

Meter Offset



Part No.	Size	Std. Ctn. Qty.	Offset	A
▶ E995G	1 1/4	15	0.758	4.230
▶ E995J	2	8	0.684	4.270

Offset



Part No.	Size	Std. Ctn. Qty.	Std. Ctn. Qty. Wt. (lbs.)
▶ E994D	1/2	25	3
▶ E994E	3/4	25	3
▶ E994F	1	50	12

End Bells

End Bells



Part No.	Size	Std. Ctn. Qty.	Std. Ctn. Wt. (lbs.)
E997F	1	50	2.6
E997G	1 1/4	35	2.5
E997H	1 1/2	30	2.5
E997J	2	40	5.0
E997K	2 1/2	30	2
E997L	3	50	10
E997M	3 1/2	40	11
E997N	4	30	16
▶ E997P	5	15	8
▶ E997R	6	10	7
▶ E997T	8	3	15

Fabricated End Bells Schedule 40



Part No.	Size	Std. Ctn. Qty.	Std. Ctn. Wt. (lbs.)
▶ E949J5	2" x 5"	50	10
▶ E949J6	2" x 6"	25	12
▶ E949JN	2" x 4"	25	7
▶ E949JX	2" x 8"	12	7
▶ E949LR	3" x 6"	20	21
▶ E949N5	4" x 5"	20	2
▶ E949NR	4" x 6"	15	21
▶ E949R5	6" x 5"	12	27
▶ E949RX	6" x 8"	6	17

Subsection 2:

Rigid metallic elbows and nipples



Wheatland Tube Company



Rigid Steel Conduit

**Hot-Dip Galvanized Rigid Nipples • Elbows
Couplings • Running Thread**

Electrical Metallic Tubing (EMT)

Elbows

Rigid Aluminum Conduit

Nipples • Elbows • Couplings

Intermediate Metal Conduit (IMC)

Elbows

CORPORATE OFFICES:

Wheatland Tube Company
900 Haddon Avenue
Collingswood, NJ 08108-2162
PHONE: 800-257-8182
FAX: 856-854-4973
www.wheatland.com



Rigid Steel Conduit Nipples - Galvanized

WEIGHTS AND PACKAGING

Length	CLOSE			1½"		2"		2½"		3"		3½"	
Trade Size	Length* (in.)	Standard Carton Quantity	Weight Per 100 lbs.	Standard Carton Quantity	Weight Per 100 lbs.	Standard Carton Quantity	Weight Per 100 lbs.	Standard Carton Quantity	Weight Per 100 lbs.	Standard Carton Quantity	Weight Per 100 lbs.	Standard Carton Quantity	Weight Per 100 lbs.
½	1⅛	25	6	25	8	25	12	25	15	25	19	25	22
¾	1⅜	25	9	25	9	25	14	25	19	25	24	25	28
1	1½	25	16	--	--	25	22	25	28	25	36	25	43
1¼	1⅝	25	22	--	--	25	28	25	37	25	47	25	55
1½	1¾	25	28	--	--	25	34	25	44	25	56	25	68
2	2	25	44	--	--	--	--	25	59	25	72	25	88
2½	2¾	B	84	--	--	--	--	--	--	B	100	B	120
3	2⅝	B	118	--	--	--	--	--	--	B	130	B	157
3½	2¾	B	160	--	--	--	--	--	--	--	--	--	--
4	2⅞	B	180	--	--	--	--	--	--	--	--	--	--
5	3	B	240	--	--	--	--	--	--	--	--	--	--
6	3⅛	B	350	--	--	--	--	--	--	--	--	--	--

*Length reference is for Close Nipples only.



Rigid Steel Conduit Nipples - Galvanized

WEIGHTS AND PACKAGING

Length	4"		5"		6"		8"		10"		12"	
Trade Size	Standard Carton Quantity	Weight Per 100 lbs.	Standard Carton Quantity	Weight Per 100 lbs.	Standard Carton Quantity	Weight Per 100 lbs.	Standard Carton Quantity	Weight Per 100 lbs.	Standard Carton Quantity	Weight Per 100 lbs.	Standard Carton Quantity	Weight Per 100 lbs.
½	25	26	25	33	25	40	25	54	25	68	25	82
¾	25	34	25	43	25	52	25	73	25	89	25	109
1	25	49	25	64	25	78	25	109	25	138	25	166
1¼	25	66	25	84	25	100	25	136	25	176	25	216
1½	25	80	25	103	25	122	25	170	25	216	12	260
2	25	103	25	132	25	160	12	220	12	285	12	335
2½	B	150	B	197	B	240	B	329	B	422	B	505
3	B	200	B	260	B	300	B	411	B	528	B	630
3½	B	240	B	320	B	373	B	510	B	655	B	785
4	B	285	B	380	B	440	B	600	B	775	B	925
5	--	--	B	480	B	600	B	825	B	1055	B	1260
6	--	--	B	660	B	820	B	1125	B	1440	B	1720

Prices are available upon request for nipples in lengths longer than 12" or with special threading requirements.



EMT Elbows 90°

Trade Size	Min. UL Radius (in.)	Offset	Weight lbs.**		Std. Carton Qty.
			Per 100	Per Ctn.	
1/2	4	6 1/4	26	13	50
3/4	4 1/2	7 1/16	46	23	50
1	5 3/4	9 1/4	92	23	25
1 1/4	7 1/4	10 1/2	135	27	20
1 1/2	8 1/4	12 5/8	200	30	15
2	9 1/2	14 1/4	280	28	10
2 1/2*	10 1/2	18 7/8	500	250	50
3*	13	20	750	375	50
3 1/2*	15	23 3/4	1014	355	35
4*	16	26 1/8	1300	455	35

*Trade sizes 2 1/2 and larger shipped in palletized cartons or bulk.
 **Weights for Standard 90° elbows shown above are approximate. To estimate weight for 60°, deduct 10%; for 45°, deduct 15%; for 30°, deduct 20%.
 Underwriters Laboratories, Inc. UL 797, American National Standards Institute, C80.3.

Rigid/IMC Couplings - Galvanized Steel

Trade Size	Outside Diameter	Length* (in.)	Weight lbs.		Std. Carton Qty.
			Per 100	Per Ctn.	
1/2	1.010	1 5/8	12	12	100
3/4	1.250	1 41/64	18	9	50
1	1.525	1 31/32	30	9	30
1 1/4	1.869	2 1/32	37	9	25
1 1/2	2.155	2 1/16	52	13	25
2	2.650	2 1/8	72	15	20
2 1/2	3.250	3 3/16	170	41	24
3	3.870	3 5/16	210	34	16
3 1/2	4.500	3 13/32	340	41	12
4	4.875	3 33/64	300	30	10
5	6.000	3 61/64	475	Bulk	Bulk
6	7.200	4 1/4	765	Bulk	Bulk

Manufactured to UL Specifications.
 *Minimum dimensions per UL 6.

Rigid Steel Conduit Running Thread Pipe

Trade Size	Feet Per Carton	Weight lbs.	
		Per 100 Ft.	Per Ctn.
1/8	102'	18	19
1/4	102'	29	30
3/8	102'	42	43
1/2	60'	62	37
3/4	75'	85	64
1	60'	103	62
1 1/4	36'	141	51
1 1/2	30'	180	54
2	24'	249	60
2 1/2	12'	383	46
3	9'	496	45
3 1/2	6'	631	38
4	6'	722	43

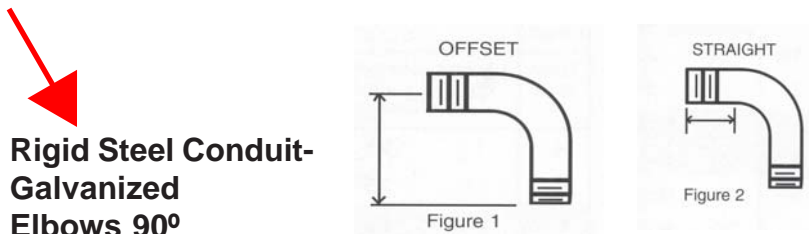
3 Foot Lengths: TYPE "C" Galvanized, Electro Plated Threads.

Rigid Steel Conduit-Galvanized Elbows 90°

Trade Size	Min. UL Radius (in.)	Offset Fig. 1	Straight Fig. 2	Weight lbs.**		Std. Carton Qty.
				Per 100	Per Ctn.	
1/2	4	6 3/8	1 1/4	70	35	50
3/4	4 1/2	7 7/16	2 1/4	112	56	50
1	5 3/4	9 1/2	2 3/4	192	48	25
1 1/4	7 1/4	11 3/8	3	320	64	20
1 1/2	8 1/4	12 13/16	3 1/2	413	62	15
2	9 1/2	15 1/2	4	670	67	10
2 1/2*	10 1/2	19 1/4	4 3/4	1200	600	50
3*	13	21 1/2	6	1900	665	35
3 1/2*	15	24 1/2	5 1/2	2800	700	25
4*	16	25 1/2	5 3/4	3100	775	25
5*	24	37 1/16	8 1/8	6800	Bulk	Bulk
6*	30	49 1/2	13 1/4	11400	Bulk	Bulk

*Sizes 2 1/2 and larger shipped in palletized cartons or bulk. Palletized and Bulk elbows supplied with a thread protector on each end and UL label affixed.

**Weights for Standard 90° elbows shown above are approximate. To estimate weight for 60°, deduct 10%; for 45°, deduct 15%; for 30°, deduct 20%.





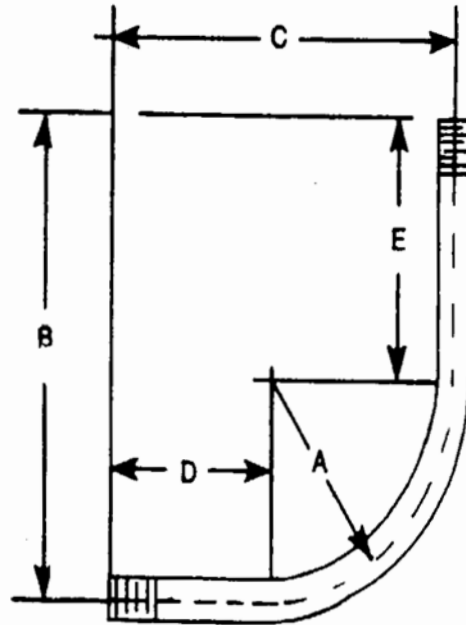
Rigid Steel Conduit Elbows - Galvanized Special Large Radius 90°

Trade Size	12"	15"	18"	24"	30"	36"	42"	48"
	Radius	Radius	Radius	Radius	Radius	Radius	Radius	Radius
	Weight Each In Lbs.							
1	4	6	5	6	9	9	12	13
1¼	6	7	7	9	12	13	16	18
1½	8	9	10	11	15	16	19	21
2	10	10	11	14	20	22	24	26
2½	15	19	18	23	27	32	39	44
3	--	25	23	32	37	45	52	57
3½	--	Standard Radius	31	35	42	54	62	69
4	--	--	38	45	54	64	73	81
5	--	--	--	Standard Radius	85	94	100	120
6	--	--	--	--	Standard Radius	131	140	160

*Weights for Special Large Radius 90° elbows shown above are approximate. To estimate weight for 60°, deduct 10%; for 45°, deduct 15%; for 30°, deduct 20%. Underwriters Laboratories, Inc. No. UL6, American National Standards Institute, C80.1.

Yard-Light Elbows Galvanized

Trade Size	Pieces Per Carton	Weight	
		Per 100 Pcs.	Per Ctn.
½	25	150	38
¾	25	202	51
1	25	316	79
1¼	10	477	48
1½	5	609	30
2	Bulk	911	--
2½	Bulk	1530	--
3	Bulk	2279	--
3½	Bulk	3082	--
4	Bulk	3799	--



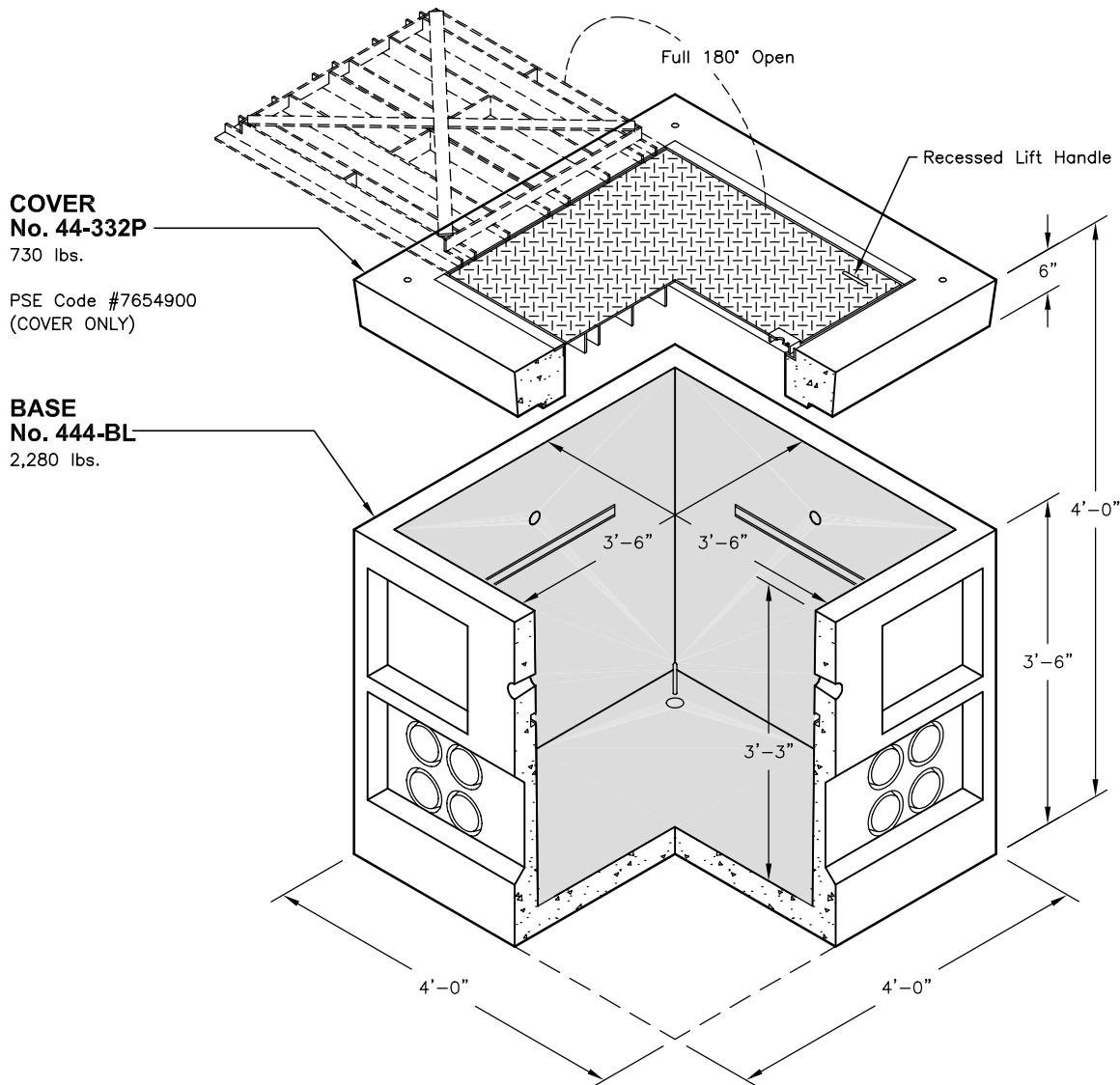
Dimensions of Yard-Light Elbows - Galvanized

Trade Size	1/2	3/4	1	1¼	1½	2	2½	3	3½	4
A	4	4½	5¾	7¼	8¼	9½	10½	13	15	16
B	18	18	18	19¼	20½	21½	22½	25	27	28
C	6 ³ / ₁₆	6¾	8 ⁵ / ₈	10¼	11 ⁵ / ₈	14½	16	19¼	22¾	24
D	2 ³ / ₁₆	2¼	2 ⁷ / ₈	3¼	3 ³ / ₈	5	5½	6¼	7¾	8
E	14	13½	12¼	12¼	12¼	12	12	12	12	12

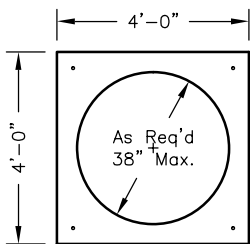
No Spec Section

Vaults and Light Pole Bases

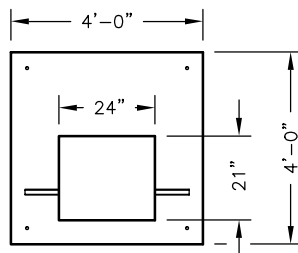
Note: The power vaults are as specified by the City of Richland, the communication vaults are to match existing, and the light pole bases are our proposal as a substitute for pouring them in place.



OPTIONAL COVER SECTIONS



ROUND ACCESS
No. 44-38C (Shown)
680 lbs.



PADMOUNT
No. 44-2124
1,050 lbs.
PSE Code #7658400
(COVER ONLY)



UTILITY VAULT™

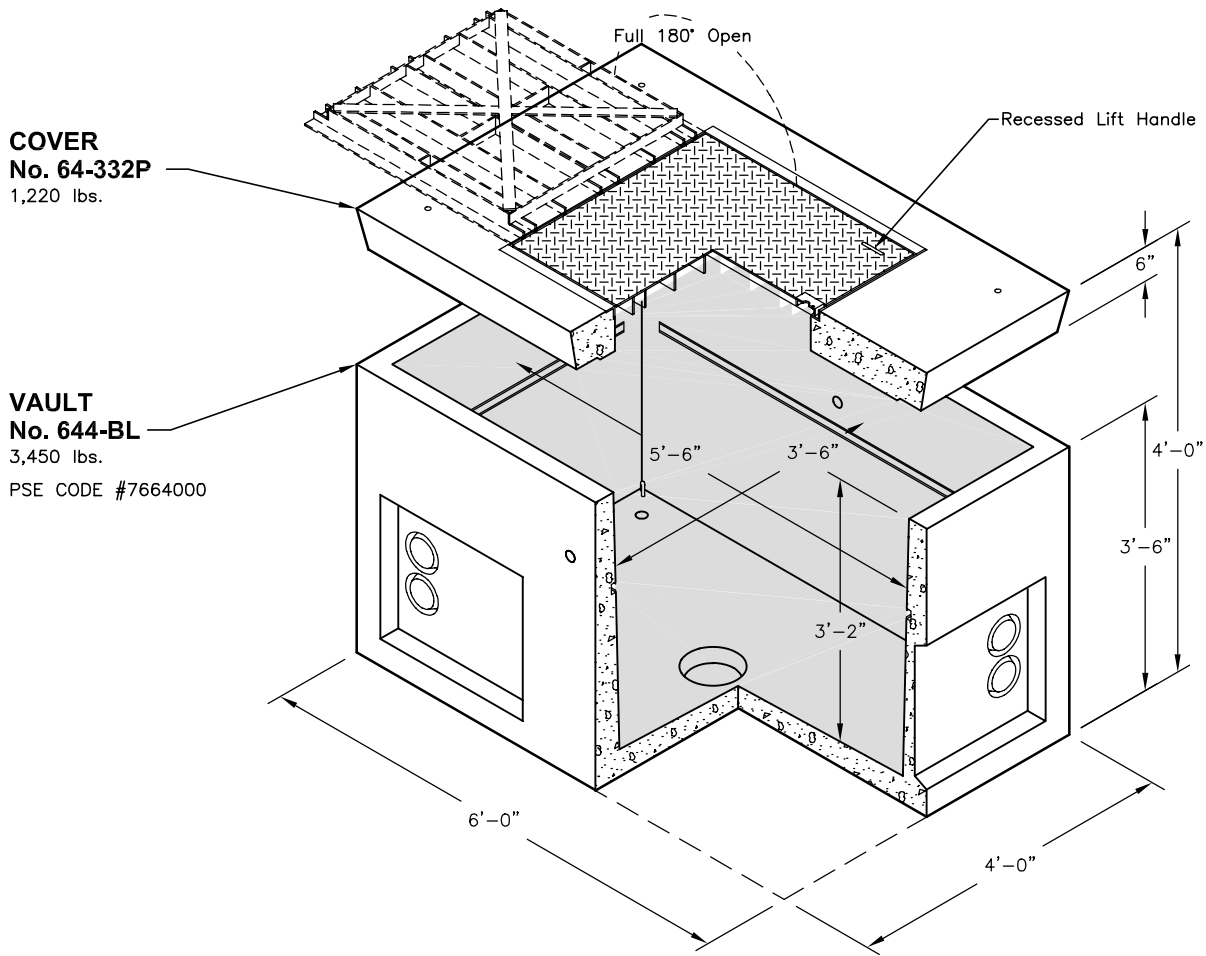
a division of **Oldcastle Precast, Inc.**
P.O. BOX 588, Auburn, Washington 98071-0588
Phone: 253-839-3500 Fax: 253-735-4201
Website: www.oldcastleprecast.com/auburnwa

Covers Available With Non-Skid Surface
For Vault Extensions, See RISER Section.

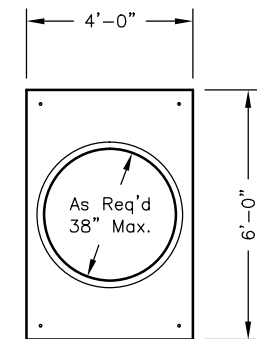
For Details See Reverse Side
Copyright © 1970 **Oldcastle Precast, Inc.**

Shallbetter terminal cabinet vaults. We'll saw cut the covers to fit their bases.

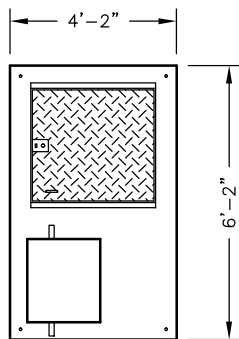
644-LA



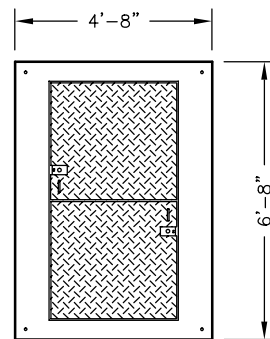
OPTIONAL COVER SECTIONS



ROUND ACCESS
No. 64-38C (Shown)
1,160 lbs.



LOCKING STEEL COVER
WITH PADMOUNT
No. 64-332P-2124
1,270 lbs.
PSE CODE #7655800



LOCKING STEEL COVERS
No. 64-2-332P
1,490 lbs.
PSE CODE #7655900



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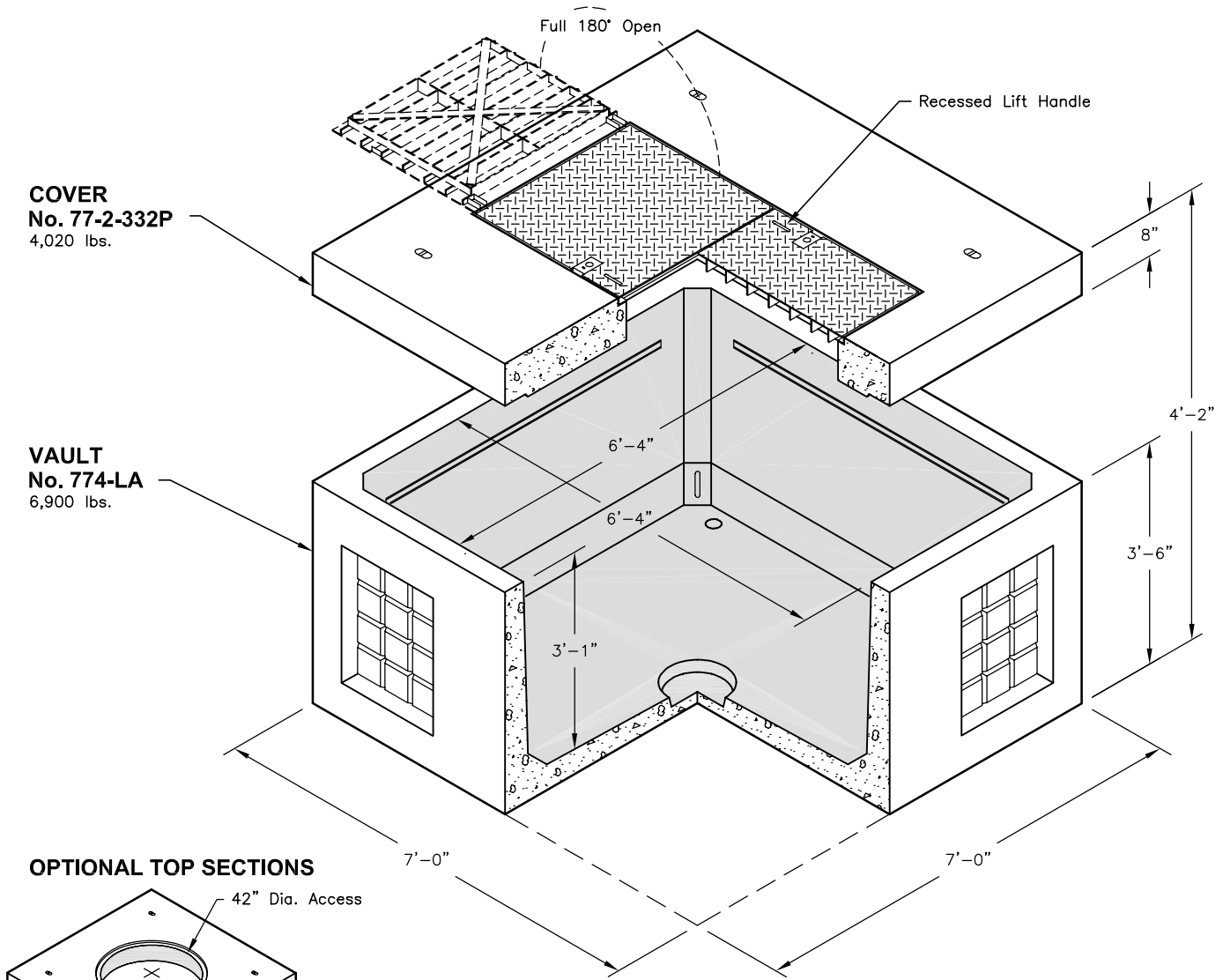
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Covers Available With Non-Skid Surface
For Vault Extensions, See RISER Section.

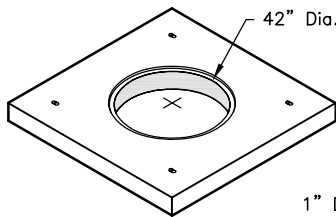
For Details See Reverse Side
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Transformer Vault Bases, they will have custom covers (#89-1460, to fit the transformers).

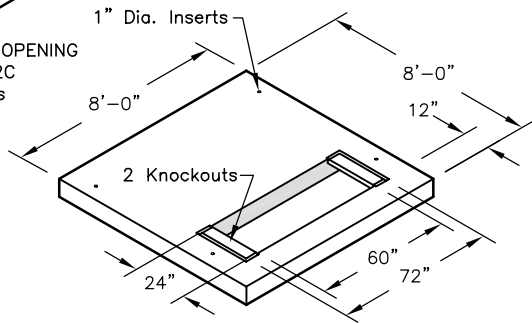
774-LA



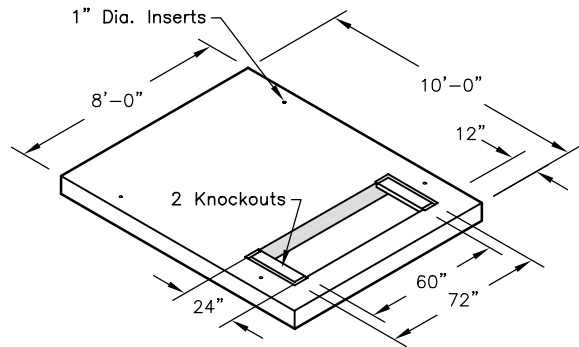
OPTIONAL TOP SECTIONS



ROUND ACCESS OPENING
No. 77-42C
4,310 lbs



PADMOUNT TOP
No. 77-88-2460
PSE CODE #7917901
(Base and Cover Assembly)
5,280 lbs.



PADMOUNT TOP
No. 77-810-2460
PSE CODE #7917900
(Base and Cover Assembly)
6,890 lbs.



UTILITY VAULT™

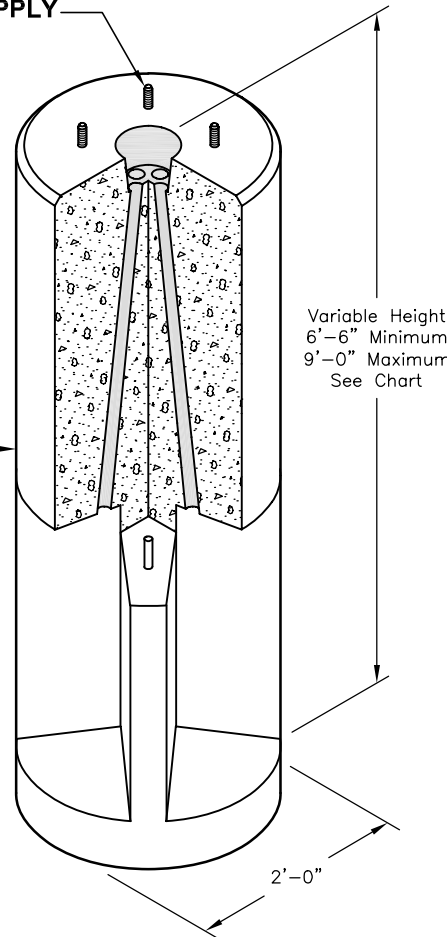
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Website: www.oldcastleprecast.com/auburnwa

Covers Available With Non-Skid Surface

24R-V-LB-P Precast Lamp Base Footing

Anchor Bolts
Size and Spacing As Required
Minimum Bolt Circle = 8" Dia.
Maximum Bolt Circle = 20" Dia.
CUSTOMER TO SUPPLY

LAMP BASE
No. 24R-V-LB-P
See Chart For Weights



24R-V-LB-P CHART		
Model No.	Height	Weight
24R-66-LB-P	6'-6"	2,380 lbs.
24R-7-LB-P	7'-0"	2,610 lbs.
24R-8-LB-P	8'-0"	3,080 lbs.
24R-9-LB-P	9'-0"	3,550 lbs.



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