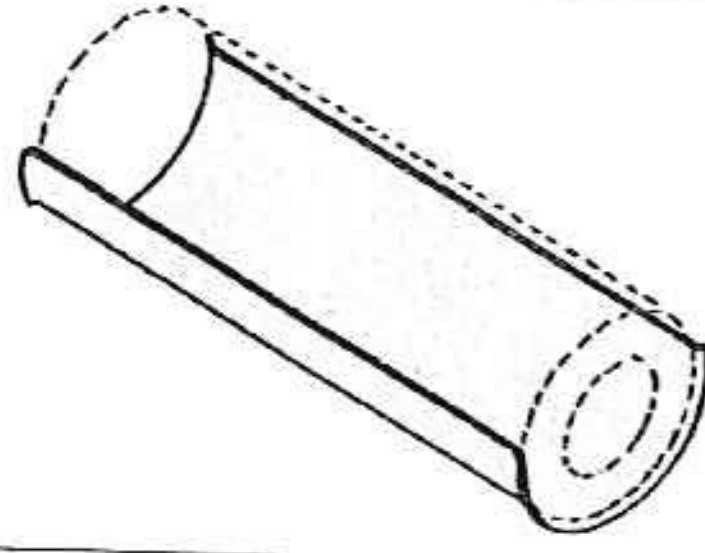




# INSULATION SHIELDS

**Fig. 170**  
**INSULATION**  
**PROTECTION SHIELD**



Note: 12" (304.8mm) length shields furnished with flared ends.

**FUNCTION:** Designed for use in the suspension of insulated pipe lines to protect the insulation from being crushed by the hanger.

**APPROVALS:** Complies with Federal Specifications A-A-1192A (Type 40) and Manufacturers' Standardization Society ANSI/SP-69 and SP-58 (Type 40).

**MATERIAL:** Low Carbon Steel

**FINISH:** Pre-galvanized

**ORDERING:** Specify shield number and figure number.

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to figure number.  
Price on request.

Size No.	Shield I.D.	Shield Gauge	Shield Length	Hanger Size		Wt. Each	
				In.	mm	Lbs.	kg
1A	2 1/8 (60.33)	18	12 (304.80)	2	(50)	.55	(.25)
2A	2 1/8 (60.33)	18	12 (304.80)	2 1/2	(65)	.64	(.29)
3A	2 1/8 (60.33)	18	12 (304.80)	2 1/2	(65)	.68	(.30)
4A	3 1/2 (88.90)	18	12 (304.80)	3	(80)	.89	(.40)
5A	4 (101.60)	18	12 (304.80)	3 1/2	(90)	.91	(.41)
6A	4 1/2 (114.30)	18	12 (304.80)	4	(100)	1.12	(.51)
7A	5 (127.00)	18	12 (304.80)	5	(125)	1.15	(.52)
8A	5 1/8 (142.88)	18	12 (304.80)	5	(125)	1.35	(.61)
8B	5 1/8 (142.88)	16	12 (304.80)	5	(125)	2.00	(.91)
9A	6 (152.40)	18	12 (304.80)	6	(150)	1.45	(.66)
9B	6 (152.40)	16	12 (304.80)	6	(150)	2.10	(.95)
10A	6 1/4 (168.28)	18	12 (304.80)	6	(150)	1.50	(.68)
10B	6 1/4 (168.28)	16	12 (304.80)	6	(150)	2.37	(1.09)
11A	7 1/4 (193.68)	18	12 (304.80)	8	(200)	2.02	(.92)
11B	7 1/4 (193.68)	16	12 (304.80)	8	(200)	2.50	(1.13)
11C	7 1/4 (193.68)	16	18 (457.20)	8	(200)	3.75	(1.70)
12A	8 1/4 (219.03)	18	12 (304.80)	8	(200)	2.28	(1.03)
12B	8 1/4 (219.03)	16	12 (304.80)	8	(200)	2.83	(1.28)
12C	8 1/4 (219.03)	16	18 (457.20)	8	(200)	4.25	(1.93)
13A	9 1/4 (244.48)	18	12 (304.80)	10	(250)	2.54	(1.15)
13B	9 1/4 (244.48)	16	12 (304.80)	10	(250)	3.15	(1.43)
13C	9 1/4 (244.48)	16	18 (457.20)	10	(250)	4.73	(2.15)
14A	10 1/4 (273.05)	18	12 (304.80)	10	(250)	2.84	(1.29)
14B	10 1/4 (273.05)	16	12 (304.80)	10	(250)	3.53	(1.60)
14C	10 1/4 (273.05)	16	18 (457.20)	10	(250)	5.30	(2.40)
14D	10 1/4 (273.05)	14	24 (609.60)	10	(250)	9.63	(4.37)
15B	11 1/4 (298.45)	16	12 (304.80)	12	(300)	4.00	(1.81)
15C	11 1/4 (298.45)	16	18 (457.20)	12	(300)	6.00	(2.72)
15D	11 1/4 (298.45)	14	24 (609.60)	12	(300)	10.00	(4.54)
16B	12 1/4 (323.85)	16	12 (304.80)	12	(300)	4.18	(1.90)
16C	12 1/4 (323.85)	16	18 (457.20)	12	(300)	6.28	(2.85)
16D	12 1/4 (323.85)	14	24 (609.60)	12	(300)	10.90	(4.94)
17B	14 (355.60)	16	12 (304.80)	14	(350)	4.58	(2.08)
17D	14 (355.60)	14	24 (609.60)	14	(350)	12.25	(5.56)
18B	15 (381.00)	16	12 (304.80)	16	(400)	4.90	(2.22)
18D	15 (381.00)	14	24 (609.60)	16	(400)	13.00	(5.90)
19B	16 (406.40)	16	12 (304.80)	16	(400)	5.20	(2.35)
19D	16 (406.40)	14	24 (609.60)	16	(400)	13.81	(6.25)
20B	17 (431.80)	16	12 (304.80)	18	(450)	5.53	(2.51)
20D	17 (431.80)	14	24 (609.60)	18	(450)	14.56	(6.60)
21B	18 (457.20)	16	12 (304.80)	18	(450)	6.20	(2.81)
21D	18 (457.20)	14	24 (609.60)	18	(450)	15.45	(7.01)
21E	18 (457.20)	12	24 (609.60)	18	(450)	21.25	(9.64)
22B	19 (482.60)	16	12 (304.80)	20	(500)	6.50	(2.95)
22D	19 (482.60)	14	24 (609.60)	20	(500)	16.32	(7.40)
22E	19 (482.60)	12	24 (609.60)	20	(500)	22.41	(10.17)
23B	20 (508.00)	16	12 (304.80)	20	(500)	7.25	(3.29)
23D	20 (508.00)	14	24 (609.60)	20	(500)	17.18	(7.79)
23E	20 (508.00)	12	24 (609.60)	20	(500)	24.75	(11.23)
24B	21 (533.40)	16	12 (304.80)	24	(600)	7.30	(3.31)
24E	21 (533.40)	12	24 (609.60)	24	(600)	24.75	(11.23)
25B	22 (558.80)	18	12 (304.80)	24	(600)	7.60	(3.45)
25E	22 (558.80)	12	24 (609.60)	24	(600)	25.92	(11.76)
26B	23 (584.20)	16	12 (304.80)	24	(600)	7.75	(3.52)
26E	23 (584.20)	12	24 (609.60)	24	(600)	26.50	(12.02)
27B	24 (609.60)	16	12 (304.80)	24	(600)	8.00	(3.63)
27E	24 (609.60)	12	24 (609.60)	24	(600)	27.20	(12.34)
28E	26 (660.40)	12	24 (609.60)	30	(750)	28.00	(12.70)
29E	27 (685.80)	12	24 (609.60)	30	(750)	30.20	(13.70)
30E	28 (711.20)	12	24 (609.60)	30	(750)	32.50	(14.74)

Note: To determine proper size consult shield selection guide on page 28.

Unless otherwise specified, all dimensions on drawings and in charts are in inches and dimensions shown in parentheses are in millimeters.

PHD Manufacturing, Inc.

Vermont Agency of Transportation  
**RECEIVED**

CK'D BY D. PETERSON OK'D BY C. CARLSON

February 20, 2015

RESUBMIT NO Approved  
BY C. CARLSON DATE 03/04/2015



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