



# EASTERN TIGHT™

EASTERN TIGHT Fittings will save you money by reducing installation time by eliminating joint sealing. They feature a triple-lipped EPDM rubber gasket, held in place with a 180° hemmed edge, that provides a reliable, airtight seal. EASTERN TIGHT Fittings are suitable for use for temperatures ranging from -20° F to 212° F. When tested in accordance with ASTM E84, EASTERN TIGHT Fittings have flame-spread and smoke-developed ratings of 0/0.

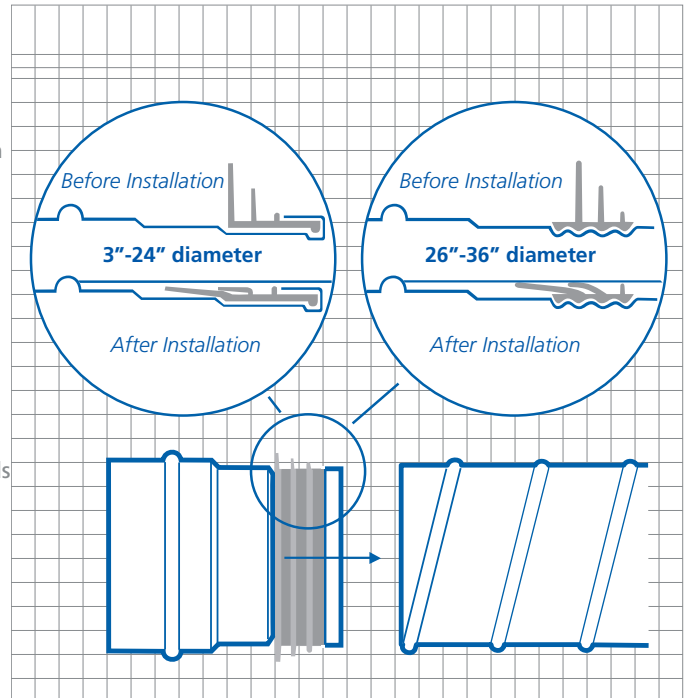
Full-bodied fittings, couplings, reducers, elbows, and taps are available in even and odd sizes from 3" through 10" in diameter, and even sizes up to 36" in diameter. Fittings are secured to the duct with self-tapping screws uniformly located around the circumference per SMACNA standards.

EASTERN TIGHT Fittings are available in single-wall construction, fabricated from galvanized or paint grip. EASTERN TIGHT Fittings have been independently tested and can be used to meet SMACNA Class 3 leakage standards for -2" WG to +10" WG.

## EASTERN TIGHT ROUND SPIRAL DUCT AND FITTINGS CONSTRUCTION STANDARDS

Gauge selection for galvanized steel (ASTM A653) or paint grip.

Fittings are assembled with stitch welds, spot welds, or standing seams and are sealed. All galvanized spiral duct 6" and larger is corrugated unless ordered without corrugations. Smaller sizes may also be corrugated. Check with the plant when ordering. All spiral duct from other materials will be smooth.



DUCT DIAMETER	2005 SMACNA 10" WG POSITIVE SPIRAL DUCT		2005 SMACNA 2" WG NEGATIVE SPIRAL DUCT	
	DUCT	FITTINGS	DUCT	FITTINGS
3"-6"	26	26	26	26
7"-18"	26	26	26	26
9"-10"	26	26	26	26
11"-12"	26	26	26	26
13"-14"	26	26	26	24
15"-16"	26	26	26	24
17"-18"	26	26	26R	24R
19"-20"	26	24	26R	24R
21"-22"	26	24	26R	24R
23"-24"	26	24	26R	24R
25"-30"	24	22	26R	24R
31"-36"	24	22	26R	24R

R = Reinforcement ring at 12' maximum spacing. Individual fittings may not have reinforcement.

## Inner Shell for EASTERN TIGHT Dual Wall

Gauge selection for inner shell. Standard material for the inner shell of spiral duct is Spirorib perforated steel (ASTM A653), with 3/32" holes on 3/16" staggered centers for a free area of 23%. Standard material for the inner shell of fittings is solid steel. Fittings are also available with a perforated liner and spiral duct with a solid liner.

DUCT DIAMETER	SPIRORIB DUCT		SPIRAL DUCT
	DUCT	FITTINGS	
3"-26"	26	22	26
27"-36"	26	22	26

Standard insulation is 1" thick, 1 pound per cubic foot density, with a thermal conductivity (ASTM C 518) @ 75° F mean temperature of 0.25 (BTU-in./hr.ft.2°F) R4 or better.

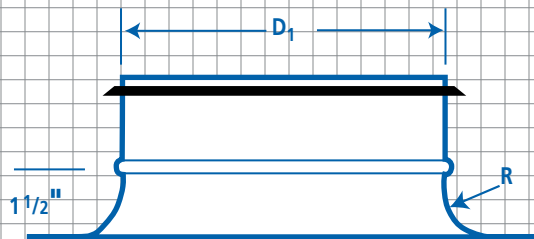
Surface burning characteristics (ASTM E 84, UL 723)  
25 flame spread  
50 smoke developed.

Sound absorption coefficients. (ASTM C 423, Type A)

Frequency, Hz						
125	250	500	1000	2000	4000	NRC
0.17	0.24	0.62	0.79	0.88	0.96	0.65

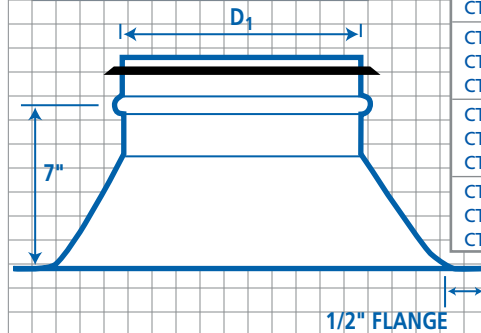
# EASTERN TIGHT™ TAKE OFFS & END CAPS

**BELL MOUTH TAKE OFF PBT**



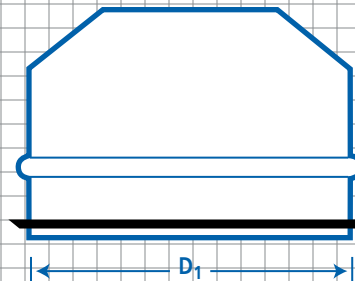
	$D_1$	R	WT.
PBT4	4"	.394"	0.4#
PBT5	5"	.472"	0.5#
PBT6	6"	.787"	0.6#
PBT7	7"	1.0"	0.7#
PBT8	8"	1.0"	0.8#
PBT9	9"	1.0"	0.9#
PBT10	10"	1.0"	1.1#
PBT12	12"	1.0"	1.3#

**CONICAL TAKE OFF CTOT**



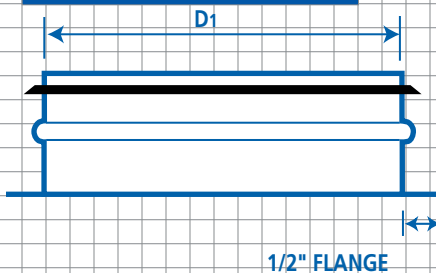
	$D_1$	WT.
CTOT14	14"	3.8#
CTOT16	16"	4.3#
CTOT18	18"	4.9#
CTOT20	20"	6.7#
CTOT22	22"	7.5#
CTOT24	24"	8.2#
CTOT26	26"	10.8#
CTOT28	28"	11.6#
CTOT30	30"	12.4#
CTOT32	32"	13.2#
CTOT34	34"	14.0#
CTOT46	36"	14.8#

**PRESSED END CAP PECT**



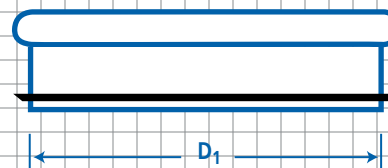
	$D_1$	WT.
PECT4	4"	0.4#
PECT5	5"	0.6#
PECT6	6"	0.7#
PECT7	7"	0.9#
PECT8	8"	1.0#
PECT9	9"	1.2#
PECT10	10"	1.4#
PECT12	12"	1.8#

**STRAIGHT TAKE OFF TOT**

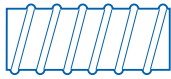
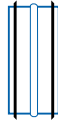
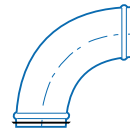
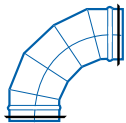
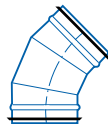
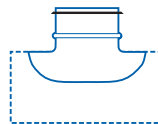
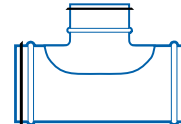
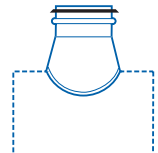
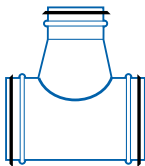
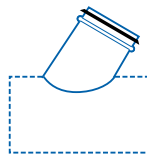
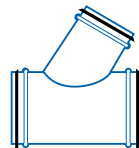
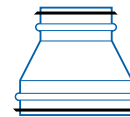
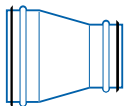
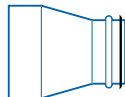
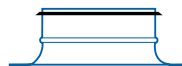
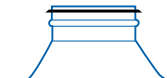
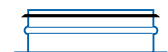
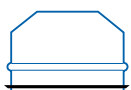
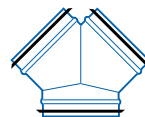
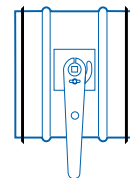


	$D_1$	WT.
TOT3	3"	0.6#
TOT4	4"	0.8#
TOT5	5"	1.0#
TOT6	6"	1.2#
TOT7	7"	1.3#
TOT8	8"	1.5#
TOT9	9"	1.7#
TOT10	10"	1.9#
TOT12	12"	2.3#
TOT14	14"	2.6#
TOT16	16"	3.0#
TOT18	18"	3.4#
TOT20	20"	4.8#
TOT22	22"	5.3#
TOT24	24"	5.7#
TOT26	26"	7.5#
TOT28	28"	0.1#
TOT30	30"	8.7#
TOT32	32"	9.3#
TOT34	34"	9.8#
TOT36	36"	10.4#

**END CAP ECT**



	$D_1$	WT.
ECT14	14"	2.6#
ECT16	16"	3.1#
ECT18	18"	3.7#
ECT20	20"	5.5#
ECT22	22"	6.4#
ECT24	24"	7.3#
ECT26	26"	11/8#
ECT28	28"	13.2#
ECT30	30"	14.6#
ECT32	32"	16.1#
ECT34	34"	17.7#
ECT36	36"	19.4#

*SP**PCPT**FCPT**PE90T**PE45T**E90T**E45T**PFTT**PTT**FTCT**CTT**FLT**LT**PRDT**PRDBT**RDT**RDBT**PBT**CTOT**TOT**PECT**ECT**YT**DT**E30*

EASTERN TIGHT is a trademark of Eastern Sheet Metal, LLC and may not be used without prior written authorization.