Atkore
Allied Tube & Conduit
EMT Submittal Package

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Atkore™
Allied Tube
& Conduit

EMT Conduit

E-Z Pull® EMT

Click brand for more product info
Allied Tube & Conduit
Calconduit

Features:

- Manufactured from high grade mild strip steel for exceptional durability and long-lasting life
- Hot galvanized steel using patented inline Flo-Coat® process for long lasting exterior protection
- E-Z Pull® interior coating provides a smooth surface for faster wire pulling
- Excellent mechanical protection for conductors
- Ductility for faster and easier bending
- Very effective in reducing effects of EMI

Certifications & Compliances:

- Allied UL certified to Safety Standard 797
- Manufactured in accordance with ANSI C80.3
- Columbia-MBF CSA certified to Standard CSA C22.2 No. 83.1
- Listed in category FJMX
- Master bundles conform to NEMA Standard RN 2
- Recognized as an equipment grounding conductor by NEC Section 250-118 and by CEC Section 10

Part Number	Trade Size		Outside Diameter*		Nominal Wall Thickness		Approximate Weight Per 100 ft (30.5m)		Galvanized Master Bundle Quantity	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lb)	(kg)	(ft)	(m)
898302	½	16	0.706	17.93	0.042	1.07	30	13.6	7000	2135
898303	¾	21	0.922	23.42	0.049	1.24	46	20.9	5000	1525
898304	1	27	1.163	29.54	0.057	1.45	67	30.4	3000	915
101576	1¼	35	1.51	38.35	0.065	1.65	101	45.8	2000	610
101584	1½	41	1.74	44.2	0.065	1.65	116	52.6	1500	457.5
101592	2	53	2.197	55.8	0.065	1.65	148	67.1	1200	366
101600	2½	63	2.875	73.03	0.072	1.83	216	98	610	186.1
101618	3	78	3.5	88.9	0.072	1.83	263	119.3	510	155.6
101782	3½	91	4	101.6	0.083	2.11	349	158.3	370	112.9
101790	4	103	4.5	114.3	0.083	2.11	393	178.3	300	91.5

* Outside diameter tolerances:
+/- .005 (in) (.13mm) for trade sizes 1/2" (16mm) through 2" (53mm)
+/- .010 (in) (.25mm) for trade sizes 21/2" (63mm)
+/- .015 (in) (.38mm) for trade size 3" (78mm)
+/- .020 (in) (.51mm) for trade sizes 31/2" (91mm) and 4" (103mm)
NOTE: Length = 10 (ft) (3.05m) with a tolerance of +/- .25 (in) (6.35 mm)

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EMT Conduit

Kwik-Fit® EMT

Click brand for more product info
Allied Tube & Conduit

Features:

- Hot galvanized steel using patented inline Flo-Coat® process for long lasting exterior protection
- E-Z Pull® interior coating provides a smooth surface for faster wire pulling
- Integral set-screw coupling formed on one end of each length of EMT
- Fast, two step installation
- Material and Labor Savings up to 50% (will vary with job site conditions)
- No separate couplings to purchase, store, carry or install
- Excellent mechanical protection for conductors
- Ductility for faster and easier bending
- High grade mild strip steel for durability and longer life

Certifications & Compliances:

- Listed to UL Safety Standards 797 and 514-B
- Manufactured in accordance with ANSI C80.3
- Meets the requirements of section 300.22 of the NEC®

c UL us

Part Number	Trade Size		Outside Diameter*		Nominal Wall Thickness		Approximate Weight Per 100 ft (30.5m)		Galvanized Master Bundle Quantity	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lb)	(kg)	(ft)	(m)
844775	1¼	35	1.51	38.35	0.065	1.65	101	45.8	840	256
844776	1½	41	1.74	44.2	0.065	1.65	116	52.6	720	219.5
765090	2	53	2.197	55.8	0.065	1.65	148	67.1	500	152.4
363242	2½	63	2.875	73.03	0.072	1.83	216	98	350	106.7
363275	3	78	3.5	88.9	0.072	1.83	263	119.3	300	91.4
363267	3½	91	4	101.6	0.083	2.11	349	158.3	250	76.2
363259	4	103	4.5	114.3	0.083	2.11	393	178.3	250	76.2

* Outside diameter tolerances:
+/- .005 (in) (.13mm) for trade sizes 1/2" (16mm) through 2" (53mm)
+/- .010 (in) (.25mm) for trade sizes 21/2" (63mm)
+/- .015 (in) (.38mm) for trade size 3" (78mm)
+/- .020 (in) (.51mm) for trade sizes 31/2" (91mm) and 4" (103mm)
NOTE: Length = 10 (ft) (3.05m) with a tolerance of +/- .25 (in) (6.35 mm)

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EMT Conduit

Kwik-Fit® Compression EMT

Click brand for more product info
Allied Tube & Conduit

Features:

- Hot galvanized steel using patented inline Flo-Coat® process for long lasting exterior protection
- E-Z Pull® interior coating provides a smooth surface for faster wire pulling
- Steel EMT with an integral compression fitting
- Integral compression fitting formed on one end of each length of EMT
- Fast, two step installation
- Material and Labor Savings up to 50% (will vary with job site conditions)
- No separate couplings to purchase, store, carry or install
- Excellent mechanical protection for conductors
- Ductility for faster and easier bending
- High grade mild strip steel for durability and longer life

Certifications & Compliances:

- Listed to UL Safety Standards 797 and 514-B
- UL Listed as CONCRETE TIGHT
- Manufactured in accordance with ANSI C80.3
- Meets the requirements of section 300.22 of the NEC®

c UL us

Part Number	Trade Size		Outside Diameter*		Nominal Wall Thickness		Approximate Weight Per 100 ft (30.5m)		Galvanized Master Bundle Quantity	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lb)	(kg)	(ft)	(m)
858335	1¼	35	1.51	38.35	0.065	1.65	107	48.5	840	256
858336	1½	41	1.74	44.2	0.065	1.65	125	56.7	720	219.5
807938	2	53	2.197	55.8	0.065	1.65	162	73.5	500	152.4
807939	2½	63	2.875	73.03	0.072	1.83	239	108.4	350	106.7
807940	3	78	3.5	88.9	0.072	1.83	291	132	300	91.4
807941	3½	91	4	101.6	0.083	2.11	383	173.7	250	76.2
807942	4	103	4.5	114.3	0.083	2.11	431	195.5	250	76.2

* Outside diameter tolerances:
+/- .005 (in) (.13mm) for size 11/4" (35mm) through 2" (53 mm)
+/- .010 (in) (.25mm) for size 21/2" (63 mm)
+/- .015 (in) (.38mm) for size 3" (78 mm)
+/- .020 (in) (.50mm) for sizes 31/2" (91 mm) and 4" (103 mm)
NOTE: Length = 10 (ft) (3.05m) with a tolerance of +/- .25 (in) (6mm)

EMT Conduit

True Color™ EMT

Click brand for more product info
Allied Tube & Conduit

Features:

- Manufactured from high grade mild strip steel for exceptional durability and long-lasting life
- Hot galvanized steel using patented inline Flo-Coat® process for long lasting exterior protection
- E-Z Pull® interior coating provides a smooth raceway for fast, easier wire-pulling
- Excellent mechanical protection for conductors
- Ductility for faster and easier bending
- Optimal EMI shielding characteristics
- Available in 8 vibrant colors to provide instant identification of multiple circuit systems, without need to apply spray paints, powder coats or tapes

Application:

- Red EMT for emergency circuits, fire alarms and security systems
- Orange EMT for construction/ research areas, fiber optic systems and auto repair/maintenance
- Yellow EMT for high voltage wiring, caution areas and special equipment
- Green EMT for hospital/healthcare areas and nurse call stations
- Blue EMT for low voltage wiring, data com/video and network security
- Purple EMT for specialty wiring systems and security systems
- White EMT for light colored areas and architectures
- Black EMT for dark colored areas and architectures

Certifications & Compliances:

- Listed to UL Safety Standard 797
- Manufactured in accordance with ANSI C80.3
- Listed in category FJMX
- Master bundles conform to NEMA Standard RN 2
- Recognized as an equipment grounding conductor by NEC Section 250-118

EMT Conduit

True Color™ EMT

Click brand for more product info
Allied Tube & Conduit

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Conduit Dimensions

Trade Size		Outside Diameter*		Nominal Wall Thickness		Approx Weight Per 100 Ft (30.5M)		True Color™ Bundle Quantity		Primary Bundle Quantity	
(in)	(mm)	(in)	(mm)	(in)	(mm)	(lb)	(kg)	(ft)	(m)	(ft)	(m)
½	16	0.706	17.93	0.042	1.07	30	13.6	2500	762	100	30.5
¾	21	0.922	23.42	0.049	1.24	46	20.9	2000	609.6	100	30.5
1	27	1.163	29.54	0.057	1.45	67	30.4	1000	304.8	100	30.5
1¼	35	1.510	38.35	0.065	1.65	101	45.8	500	152.4	50	15.2
1½	41	1.740	44.20	0.065	1.65	116	52.6	500	152.4	50	15.2
2	53	2.197	55.80	0.065	1.65	148	67.1	610	185.9	-	-
2½	63	2.875	73.03	0.072	1.83	216	98.0	370	112.7	-	-
3	78	3.500	88.90	0.072	1.83	263	119.3	200	61	-	-
3½	91	4.000	101.60	0.083	2.11	349	158.3	100	30.5	-	-
4	103	4.500	114.30	0.083	2.11	393	178.3	100	30.5	-	-

* +/- 0.005 (in) (.13 mm) for trade sizes 1/2" to 2"
+/- 0.010 (in) (.25 mm) for trade sizes 2 1/2"
+/- 0.015 (in) (.38 mm) for trade sizes 3"
+/- 0.020 (in) (.51 mm) for trade sizes 3 1/2" & 4"
Note: Length = 10 (ft) (3.05m) +/- .25 (in) (6.35mm)

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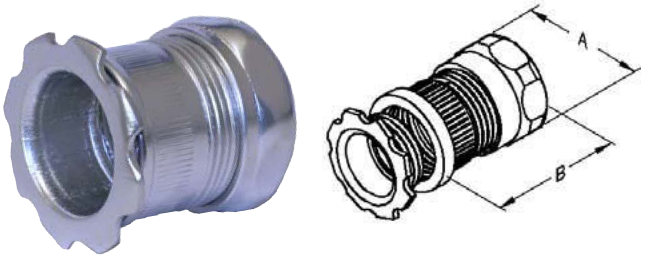
True Color™ Part Numbers

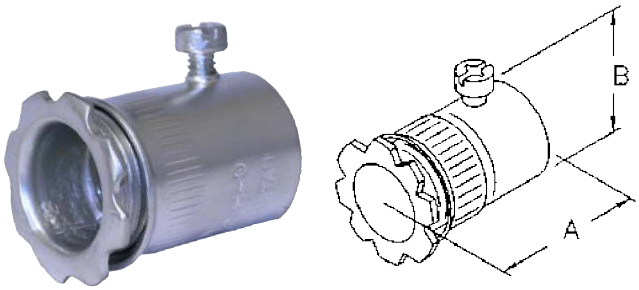
Trade Size		Part Number							
(in)	(mm)	RED	ORANGE	YELLOW	GREEN	BLUE	PURPLE	WHITE	BLACK
½	16	191092	191102	191112	191122	191132	191162	191152	191142
¾	21	191093	191103	191113	191123	191133	191163	191153	191143
1	27	191094	191104	191114	191124	191134	191164	191154	191144
1¼	35	191095	191105	191115	191125	191135	191165	191155	191145
1½	41	191096	191106	191116	191126	191136	191166	191156	191146
2	53	191097	191107	191117	191127	191137	191167	191158	191147
2½	63	191098	191108	191118	191128	191138	191168	191159	191148
3	78	191099	191109	191119	191129	191139	191169	191157	191149
3½	91	191100	191110	191120	191130	191140	191170	191160	191150
4	103	191101	191111	191121	191131	191141	191171	191161	191151

EMT Fittings

Steel Compression Space Saver and Steel Set Screw Space Saver



Steel Compression Space Saver



Steel Set Screw Space Saver

Click brand for more product info
Allied Tube & Conduit

Features:

- Eliminates need to purchase insulated throat steel fittings or conduit bushings in 1/2", 3/4" and 1" trade sizes
- Affords additional wiring room in junction boxes (see illustrations)
- Excellent for low voltage applications
- Heavy steel walls
- Concrete tight when taped
- RoHS compliant

Standard Materials:

- Steel

Standard Finish:

- Zinc plated

Certifications & Compliances:

- UL Standard: 514B
- Fed. Spec. W-F-408E
- NEMA: FB-1
- UL Listed File # E20007

Steel Compression Space Saver

Part Number	Trade Size	Dim A	Dim B	Master Pack	Weight Per 100 Pieces
	(in)	(in)	(in)		(lb)
CSSC-50KON	½	1.250	1.125	50	10.7
CSSC-75KON	¾	1.438	1.375	25	15.6
CSSC-100KON	1	1.875	1.688	25	30.3

CSSC is concrete tight

Steel Set Screw Space Saver

Part Number	Trade Size	Dim A	Dim B	Master Pack	Weight Per 100 Pieces
	(in)	(in)	(in)		(lb)
SSC-50KON	½	0.875	0.875	50	7.8
SSC-75KON	¾	1.063	1.125	25	10.9
SSC-100KON	1	1.313	1.375	25	15.5

SSC is concrete tight when taped

Wiring room using conventional steel connectors

Wiring room using Space Saver Steel connectors

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EMT Fittings

Steel EMT Compression Connectors

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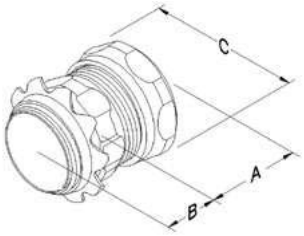
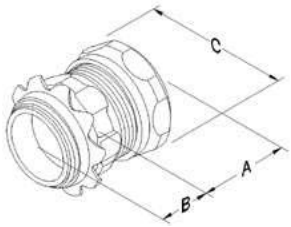
Non-Insulated



Insulated



Features:

- Male hub threads – NPSM
- Steel locknuts
- Heavy steel walls
- Concrete tight
- UL listed for steel and aluminum EMT conduit
- RoHS compliant

Standard Materials:

- Nylon
- Steel

Standard Finish:

- Zinc plated

Certifications & Compliances:

- UL Standard: 514B
- Fed. Spec. A-A-50553A
- NEMA: FB-1
- UL Listed File # E200730

c UL us
E200730

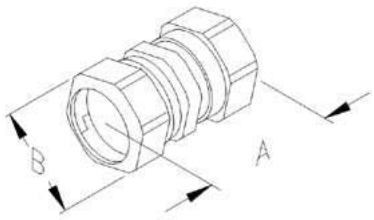
Part Number	Trade Size (in)	Dim A (in)	Dim B (in)	Dim C (in)	Inner Pack	Master Pack	Weight Per 100 Pieces (lb)
Steel Compression Connectors							
CC50RKON	½	0.625	0.437	1.125	50	500	10.6
CC75RKON	¾	0.688	0.437	1.375	25	250	17.0
CC100RKON	1	0.688	0.500	1.688	20	200	22.7
CC125RKON	1 ¼	0.938	0.625	2.063	10	100	40.6
CC150RKON	1 ½	1.063	0.625	2.250	10	100	49.9
CC200RKON	2	1.125	0.687	2.750	5	50	66.8
CC250RKON	2 ½	1.688	0.750	3.625	–	8	176.8
CC300RKON	3	1.688	0.875	4.250	–	6	234.3
CC350RKON	3 ½	1.813	0.937	4.688	–	4	287.3
CC400RKON	4	1.813	0.937	5.188	–	4	342.6
With Insulated Throat							
CC50-ICRKON	½	0.625	0.500	1.125	50	500	10.7
CC75-ICRKON	¾	0.688	0.500	1.375	25	250	17.1
CC100-ICRKON	1	0.688	0.563	1.688	20	200	22.9
CC125-ICRKON	1 ¼	0.938	0.688	2.063	10	100	41.0
CC150-ICRKON	1 ½	1.063	0.688	2.250	10	100	50.4
CC200-ICRKON	2	1.125	0.750	2.750	5	50	67.4
CC250-ICRKON	2 ½	1.688	0.813	3.625	–	8	178.1
CC300-ICRKON	3	1.688	0.938	4.250	–	6	235.7
CC350-ICRKON	3 ½	1.813	1.000	4.688	–	4	289.1
CC400-ICRKON	4	1.813	1.000	5.188	–	4	344.9

EMT Fittings

Steel EMT Compression Couplings

Click brand for more product info

Allied Tube & Conduit



Features:

- Heavy steel walls
- Concrete tight
- UL Listed for steel and aluminum EMT conduit
- RoHS compliant

Standard Materials:

- Steel

Standard Finish:

- Zinc plated

Certifications & Compliances:

- UL Standard: 514B
- Fed. Spec. A-A-50553A
- NEMA: FB-1
- UL Listed File # E200730

c UL us
E200730

Part Number	Trade Size	Dim A	Dim B	Inner Pack	Master Pack	Weight Per 100 Pieces
	(in)	(in)	(in)			(lb)
CK50RKON	½	1.625	1.125	50	500	14.0
CK75RKON	¾	1.750	1.375	25	250	21.3
CK100RKON	1	1.875	1.688	20	200	28.0
CK125RKON	1 ¼	2.250	2.063	10	100	48.5
CK150RKON	1 ½	2.250	2.250	10	100	59.5
CK200RKON	2	2.375	2.750	5	50	78.9
CK250RKON	2 ½	3.875	3.625	–	8	205.5
CK300RKON	3	4.000	4.250	–	6	263.0
CK350RKON	3 ½	4.063	4.688	–	4	309.4
CK400RKON	4	4.938	5.188	–	4	393.4

EMT Fittings

Steel EMT Compression to Threaded Rigid Couplings

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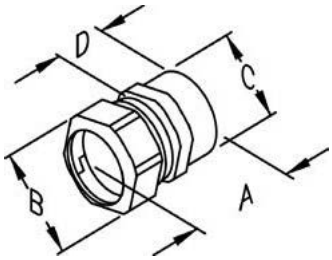
Allied Tube & Conduit



Features:

- Pre-set and staked tri-head screws
- Heavy steel walls
- Concrete tight

Standard Materials:

- Steel

Standard Finish:

- Zinc plated

Certifications & Compliances:

- UL Standard: 514B
- Fed. Spec. A-A-50553A
- NEMA: FB-1
- UL Listed File # E207875

Applications:

- To join EMT to Rigid or IMC

c UL us

Part Number	Trade Size	Dim A	Dim B	Dim C	Dim D	Master Pack	Weight Per 100 Pieces
	(in)	(in)	(in)	(in)	(in)		(lb)
ERC50KON	½	1.313	1.125	0.875	0.688	350	8.8
ERC75KON	¾	1.438	1.375	1.125	0.750	200	13.8
ERC100KON	1	1.500	1.688	1.375	0.938	110	19.7

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EMT Fittings

Steel EMT Raintight Compression Connectors

Click brand for more product info
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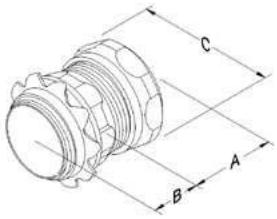
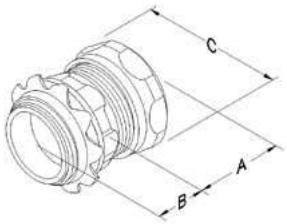
Non-Insulated



Insulated



Features:

- Male hub threads - NPSM
- Steel locknuts
- Heavy steel walls
- Raintight - Wet locations
- Concrete tight
- Blue nut eases identification
- Suitable for use outdoorss
- RoHS compliant

Standard Materials:

- Steel
- Neoprene rubber
- Nylon compression ring

Standard Finish:

- Zinc plated

Certifications & Compliances:

- UL Standard: 514B
- Fed. Spec. A-A-50553A
- NEMA: FB-1
- UL Listed File # E200730

U.S. Patent No. 8.129.633

c UL us
E200730

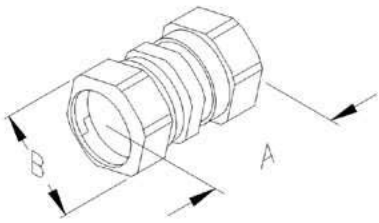
Part Number	Trade Size (in)	Dim A (in)	Dim B (in)	Dim C (in)	Inner Pack	Master Pack	Weight Per 100 Pieces (lb)
Raintight Compression Fittings							
CCR-50KON	½	0.625	0.438	1.125	50	500	10.6
CCR-75KON	¾	0.688	0.438	1.375	25	250	17.0
CCR-100KON	1	0.688	0.500	1.688	20	200	22.7
CCR-125KON	1 ¼	0.938	0.625	2.063	10	100	40.6
CCR-150KON	1 ½	1.063	0.625	2.250	10	100	49.9
CCR-200KON	2	1.125	0.688	2.750	5	50	66.8
CCR-250KON	2 ½	1.688	0.750	3.625	-	8	176.8
CCR-300KON	3	1.688	0.875	4.250	-	6	234.3
CCR-350KON	3 ½	1.813	0.938	4.688	-	4	287.3
CCR-400KON	4	1.813	0.938	5.188	-	4	342.6
With Insulated Throat							
CCR50-ICKON	½	0.625	0.500	1.125	50	500	10.7
CCR75-ICKON	¾	0.688	0.500	1.375	25	250	17.1
CCR100-ICKON	1	0.688	0.563	1.688	20	200	22.9
CCR125-ICKON	1 ¼	0.938	0.688	2.063	10	100	41.0
CCR150-ICKON	1 ½	1.063	0.688	2.250	10	100	50.4
CCR200-ICKON	2	1.125	0.750	2.750	5	50	67.4
CCR250-ICKON	2 ½	1.688	0.813	3.625	-	8	178.1
CCR300-ICKON	3	1.688	0.938	4.250	-	6	235.7
CCR350-ICKON	3 ½	1.813	1.000	4.688	-	4	289.1
CCR400-ICKON	4	1.813	1.000	5.188	-	4	344.9

EMT Fittings

Steel EMT Raintight Compression Couplings

Click brand for more product info

Allied Tube & Conduit



Features:

- Heavy steel walls
- Raintight - Wet locations
- Concrete tight
- Blue nut eases identification
- Suitable for use outdoors
- RoHS compliant

Standard Materials:

- Steel
- Nylon compression ring

Standard Finish:

- Zinc plated

Certifications & Compliances:

- UL Standard: 514B
- Fed. Spec. A-A-50533A
- NEMA: FB-1
- UL Listed File # E200730

c UL us
E200730

Part Number	Trade Size	Dim A	Dim B	Inner Pack	Master Pack	Weight Per 100 Pieces
	(in)	(in)	(in)			(lb)
CKR-50KON	½	1.625	1.125	50	500	14.0
CKR-75KON	¾	1.750	1.375	25	250	21.3
CKR-100KON	1	1.875	1.688	20	200	28.0
CKR-125KON	1 ¼	2.250	2.063	10	100	48.5
CKR-150KON	1 ½	2.250	2.250	10	100	59.5
CKR-200KON	2	2.750	2.750	5	50	78.9
CKR-250KON	2 ½	3.875	3.625	–	8	205.5
CKR-300KON	3	4.000	4.250	–	6	263.0
CKR-350KON	3 ½	4.688	4.688	–	4	309.4
CKR-400KON	4	4.938	5.188	–	4	393.4

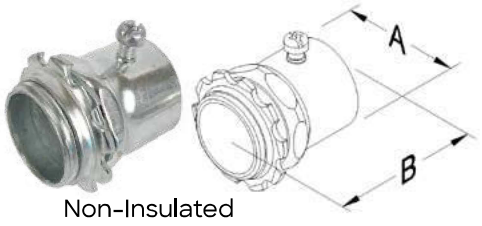
Atkore

EMT Fittings

Steel EMT Set Screw Connectors

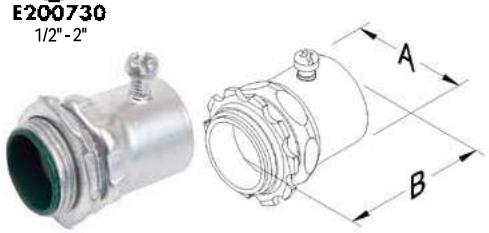
Click brand for more product info

Allied Tube & Conduit



Non-Insulated

c UL us
E200730
1/2" - 2"



Insulated

c UL us
E207875
21/2" - 4"

Features:

- Pre-set and staked tri-head screws 1/2" thru 2"
- Hex head screws 2 1/2" thru 4"
- Male hub threads - NPSM
- Steel locknuts
- Heavy steel walls
- Concrete tight when taped
- UL listed for Steel EMT Conduit
- RoHS compliant

Standard Materials:

- Nylon
- Steel

Standard Finish:

- Zinc plated

Certifications & Compliances:

- UL Standard: 514B
- Fed. Spec. A-A-50553A
- NEMA: FB-1
- UL Listed File # E200730 sizes 1/2" thru 2"
- UL Listed File # E207875 sizes 2 1/2" thru 4"

Part Number	Trade Size (in)	Dim A (in)	Dim B (in)	Inner Pack	Master Pack	Weight Per 100 Pieces (lb)
Non-Insulated						
SC50RKON	½	0.880	1.500	50	500	8.6
SC75RKON	¾	1.130	1.560	25	250	12.8
SC100RKON	1	1.380	1.810	20	200	20.2
SC125RKON*	1 ¼	1.380	2.250	10	100	35.6
SC150RKON*	1 ½	2.750	2.310	10	100	45.1
SC200RKON*	2	2.000	2.380	5	50	63.6
SC250RKON*^	2 ½	3.440	3.190	–	8	130.0
SC300RKON*^	3	3.130	3.810	–	6	140.0
SC350RKON*^	3 ½	4.250	4.310	–	4	180.0
SC400RKON*^	4	4.750	4.880	–	4	225.0
Insulated						
SC50-ICRKON	½	0.880	1.500	50	500	8.7
SC75-ICRKON	¾	1.130	1.560	25	250	12.9
SC100-ICRKON	1	1.380	1.810	20	200	20.4
SC125-ICRKON*	1 ¼	1.750	2.250	10	100	36.0
SC150-ICRKON*	1 ½	2.000	2.310	10	100	45.6
SC200-ICRKON*	2	2.438	2.380	5	50	64.2
SC250-ICRKON*^	2 ½	3.125	3.190	–	8	131.3
SC300-ICRKON*^	3	3.750	3.810	–	6	141.4
SC350-ICRKON*^	3 ½	4.250	4.310	–	4	181.8
SC400-ICRKON*^	4	4.750	4.880	–	4	227.3

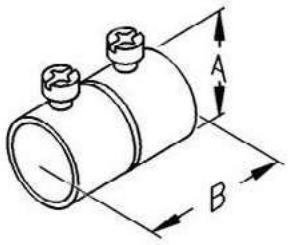
* Furnished with two set screws
^ UL and cUL us Listed for EMT, IMC and Rigid conduit, screw heads are hex shaped

EMT Fittings

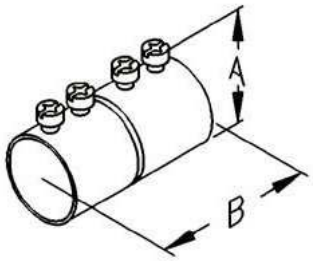
Steel EMT Set Screw Couplings

Click brand for more product info

Allied Tube & Conduit



c UL us
E200730
1/2" - 2"



c UL us
E207875
21/2" - 4"

Features:

- Pre-set and staked tri-head screws 1/2" thru 2"
- Hex head screws 2 1/2" thru 4"
- Heavy steel walls
- Concrete tight when taped
- UL listed for Steel EMT Conduit
- RoHS compliant

Standard Materials:

- Steel

Standard Finish:

- Zinc plated

Certifications & Compliances:

- UL Standard: 514B
- Fed. Spec. A-A-50553A
- NEMA: FB-1
- UL Listed File # E200730 sizes 1/2" thru 2"
- UL Listed File # E207875 sizes 2 1/2" thru 4"

Part Number	Trade Size	Dim A	Dim B	Inner Pack	Master Pack	Weight Per 100 Pieces
	(in)	(in)	(in)			(lb)
SK50RKON	½	0.875	1.625	50	500	7.8
SK75RKON	¾	1.130	1.875	25	250	12.7
SK100RKON	1	1.190	2.313	20	200	19.6
SK125RKON*	1 ¼	1.750	2.064	10	100	40.2
SK150RKON*	1 ½	2.000	3.000	10	100	57.5
SK200RKON*	2	2.440	3.250	5	50	64.6
SK250RKON*^	2 ½	3.130	4.000	–	8	130.0
SK300RKON*^	3	3.750	4.250	–	6	140.0
SK350RKON*^	3 ½	4.250	4.500	–	4	216.6
SK400RKON*^	4	4.750	4.750	–	4	250.0

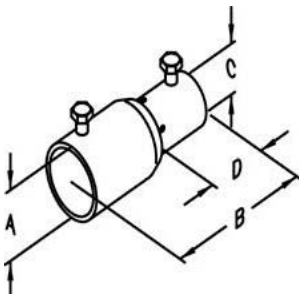
* Furnished with four set screws
^ Indicates UL and CUL. Listed for EMT, IMC and Rigid conduit, screw heads are hex shaped

EMT Fittings

Steel EMT Set Screw To Rigid Set Screw Couplings

Click brand for more product info

Allied Tube & Conduit



Features:
- Pre-set and staked tri-head screws
- Heavy steel walls
- Concrete tight when taped

Standard Materials:
- Steel

Standard Finish:
- Zinc plated

Certifications & Compliances:
- UL Standard: 514B
- Fed. Spec. A-A-50553A
- NEMA: FB-1
- UL Listed File # E207875

Applications:
- To join EMT to Rigid or IMC

c UL us

Part Number	Trade Size	Dim A	Dim B	Dim C	Dim D	Master Pack	Weight Per 100 Pieces
	(in)	(in)	(in)	(in)	(in)		(lb)
ERSS50KON	½	1.000	2.375	0.875	0.938	250	13.8
ERSS75KON	¾	1.250	2.813	1.125	1.125	130	23.5
ERSS100KON	1	1.500	3.000	1.375	1.188	100	33.4

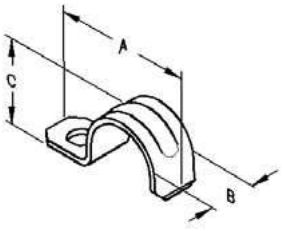
EMT Fittings

Steel Straps for EMT Conduit – One and Two Hole

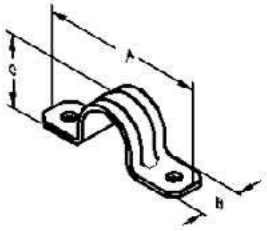
Click brand for more product info

Allied Tube & Conduit

One Hole Straps



Two Hole Straps



Standard Materials:

- Steel

Standard Finish:

- Zinc plated

Certifications & Compliances:

- UL Standard: 2239
- UL Listed File # E213669

Applications:

- One Hole Straps click on type for EMT conduit
- Two Hole Straps snap on type for EMT conduit where higher load bearing is required

c UL us
E213669

Part Number	Trade Size (in)	Dim A (in)	Dim B (in)	Dim C (in)	Inner Pack	Master Pack	Weight Per 100 Pieces (lb)
One Hole Straps							
SE50-1KON	½	1.750	0.688	0.563	100	1000	2.0
SE75-1KON	¾	2.000	1.000	0.625	100	1000	3.0
SE100-1KON	1	2.188	1.063	0.750	100	500	5.5
SE125-1KON	1 ¼	2.875	1.563	0.875	50	500	9.0
SE150-1KON	1 ½	3.125	1.750	1.000	25	100	13.0
SE200-1KON	2	3.875	1.175	1.125	25	100	22.5
SE250-1KON*	2 ½	4.938	2.813	1.250	-	25	29.0
SE300-1KON*	3	5.563	3.438	1.250	-	25	37.0
SE350-1KON*	3 ½	6.250	3.875	1.250	-	10	41.0
SE400-1KON*	4	6.813	4.375	1.250	-	10	47.0
Two Hole Straps							
SE50-2KON	½	2.188	0.813	0.563	250	2500	1.5
SE75-2KON	¾	2.688	1.000	0.625	-	200	2.0
SE100-2KON	1	3.000	1.188	0.688	-	100	4.0
SE125-2KON	1 ¼	3.625	1.563	0.750	-	50	5.1
SE150-2KON	1 ½	4.250	1.750	0.875	-	50	6.5
SE200-2KON	2	4.750	2.313	1.000	-	25	11.0
SE250-2KON*	2 ½	6.000	2.875	1.000	-	25	20.0
SE300-2KON*	3	6.438	3.438	1.000	-	20	22.0
SE350-2KON*	3 ½	7.313	3.938	1.000	-	10	24.0
SE400-2KON*	4	7.875	4.438	1.000		10	29.0

* Note: Can be used on Rigid/IMC

Atkore - ALLIED TUBE & CONDUIT

This product specification is written according to the Construction Specifications Institute *MasterFormat*, 2018 Update.

SECTION 26 05 33.13

CONDUIT FOR ELECTRICAL SYSTEMS – Steel Electrical Metallic Tubing (EMT)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

A. This Section includes the following:
    1. Steel Electrical Metallic Tubing (EMT)

B. Related Sections
    1. Section 26 05 26 “Grounding and Bonding for Electrical Systems”
    2. Section 26 05 29 “Hangers and Supports for Electrical Systems”
    3. Section 26 05 33.16 “Boxes for Electrical Systems”
    4. Section 27 05 33 “Conduits and Backboxes for Communications Systems”
    5. Section 25 05 28.33 “Conduits and Backboxes for Integrated Automation”

1.3 REFERENCES

A. UL 797– *Standard for Electrical Metallic Tubing– Steel*
B. ANSI C80.3– *American National Standard for Steel Electrical Metallic Tubing (EMT)*
C. UL 514B – *Standard for Conduit, Tubing and Cable Fittings*
D. NFPA 70 – *National Electrical Code® (NEC®)*
E. NECA NEIS 101 – *National Electrical Installation Standard for Installing Steel Conduits*

1.4 SUBMITTALS

A. Product Data
B. Certifications to applicable standards
C. Domestic certifications: When required to Buy American Act or Buy America Act

1.5 QUALITY ASSURANCE

A. Electrical Metallic Tubing shall be listed to UL 797 and manufactured in accordance with ANSI C80.3.

B. Electrical equipment and materials shall be new and within one year of manufacture, complying with the latest codes and standards. No used, re-built, refurbished and/or re-manufactured electrical equipment and materials shall be furnished on this project.
C. Testing Agency Qualifications: An independent agency, with the experience and capability to conduct the testing indicated, that is a nationally recognized testing laboratory (NRTL) as defined by OSHA in 29 CFR 1910.7 and that is acceptable to authorities having jurisdiction.

1.6 DELIVERY, STORAGE AND HANDLING

A. Delivery: Deliver products to site per the requirements of Section 01 65 00.
B. Storage: If possible, store the conduit indoors to prevent possible discoloration, the accumulation of dirt and to extend the life of the product. However, if conduit is stored outdoors, it should be stored in such a way as to allow air circulation (do not cover directly with plastic, for example) and to allow water drain-off.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Atkore Allied Tube & Conduit, 16100 S Lathrop Ave., Harvey, IL 60426; 1-800-882-5543 www.alliedeg.us

2.2 STEEL ELECTRICAL METALLIC TUBING

A. Electrical Metallic Tubing Steel shall be shall be hot galvanized steel O.D. with an organic corrosion resistant I.D. coating in trade sizes ½ -4".
B. Electrical Metallic Tubing Steel shall be listed and manufactured in accordance with UL Safety Standard 797 and ANSI C80.3
C. Product shall be labeled or marked showing evidence of third-party listing to product standard.
D. Kwik-Fit® EMT and Compression EMT are tested to meet UL Safety Standard 514-B.

2.3 FITTINGS

A. Fittings shall be listed to UL 514B.

2.4 ELBOWS

A. Elbows shall be listed to UL 797 and manufactured in accordance with ANSI C80.3.

PART 3 – EXECUTION

3.1 INSTALLATION

A. Electrical Metallic Tubing Steel shall be installed in compliance with the latest version of the National Electrical Code and other applicable codes and standards as indicated elsewhere in these specifications.
B. Electrical Metallic Tubing Steel shall be installed in accordance with NECA National Electrical Installation Standard (NEIS) 101, *Standard for Installing Steel Conduits.*

16100 South Lathrop Avenue
Harvey, IL 60426
Office 708-339-1610
Phone 800-882-5543
Web atkore.com

January 2023

LEED Version 4

To Whom It May Concern:

Thank you for your inquiry concerning the recycled content of our steel conduit products. LEED Version 4 is the current version of LEED. Allied Tube & Conduit manufactures galvanized steel rigid conduit (GRC), intermediate metal conduit (IMC), electrical metallic tubing (EMT), and various specialty steel conduit products such as Fire Alarm™ EMT, Blue EMT, Kwik-Fit® EMT, and Kwik-Couple® Rigid and IMC.

LEED MR: Construction Waste Management

Unlike other materials, steel contains recycled material and is also fully recyclable. In fact, according to the Steel Recycling Institute (SRI), steel is the world's most recycled material. Therefore, scrap produced during construction is diverted from landfills.

LEED MR: Recycled Content and Regional Materials

According to LEED requirements, mechanical, electrical and plumbing components are included in the calculations for recycled content and regional materials.

Steel conduit is an electrical component. Steel conduit contains considerable recycled content and is fully recyclable. The following information provides details about the recycled content of our steel products.

The US Green Building Council (USGBC) has ruled that average industry values for recycled content may be used for steel products. According to the Steel Recycling institute, the average industry values for steel are:

Post-Consumer: 25%
Pre-Consumer: 0%

MR Credit for regional materials is available within a 100-mile radius from the distribution and/or purchase location and includes all points of manufacture. For your information, Allied manufactures steel conduit in Houston, TX and EMT products are manufactured in Harvey, IL.

LEED MR Credit: Material Ingredients Optimization
Allied steel conduit and tubing are compliant with the European Union's REACH program. REACH certifications are available upon request.

Atkore Industry Affairs Team

Direct **1.800.882.5543**
Email **Industryaffairs@atkore.com**

16100 South Lathrop Avenue
Harvey, IL 60426
Office 708-339-1610
Phone 800-882-5543
Web atkore.com

DOMESTIC CERTIFICATE OF COMPLIANCE
BUY AMERICA
BUY AMERICAN
INFRASTRUCTURE INVESTMENT AND JOBS ACT (BABA)

January 1, 2024

To Whom It May Concern:

This certifies that the following conduit and tubing supplied by Allied Tube & Conduit are manufactured in the United States from steel melted and manufactured in the United States. These products comply with the Buy America requirements of 49 U.S.C. 5323(j)(l); 49 U.S.C. § 50101 and the applicable regulations in 23 CFR part 635.410, the Buy American Act of 1933 (FAR 52.225, Sections 9-12), and the Infrastructure Investment and Jobs Act (Build America, Buy America) if requested when ordering.

Please use the following part numbers when ordering or indicate "domestic".

TRADE SIZE	GRC PART NUMBER	EMT PART NUMBER	IMC PART NUMBER	Aluminum GRC PART NUMBER
½"	278879	898302	358192	732035
¾"	278887	898303	358184	732036
1"	278895	898304	358176	732302
1¼"	278903	101576	358119	732303
1½"	278911	101584	358101	732304
2"	278929	101592	358168	732305
2½"	278937	101600	358150	732306
3"	278945	101618	358143	732307
3½	278952	101782	358069	732308
4"	278960	101790	358051	732309
5"	278978			732310
6"	278986			732311

These products meet the following UL and ANSI standards:

Galvanized Rigid Conduit: UL 6, ANSI C80.1
Electrical Metallic Tubing: UL 797, ANSI C80.3
Intermediate Metal Conduit: UL 1242, ANSI C80.6

This certification has been issued for only the products listed above for domestic compliance and is valid for 180 days. Alterations to this document by any agency other than Atkore International voids the certification.

For domestic compliance letters specific to a customer or project name, please contact IndustryAffairs@atkore.com for further assistance.

Atkore Industry Affairs Team

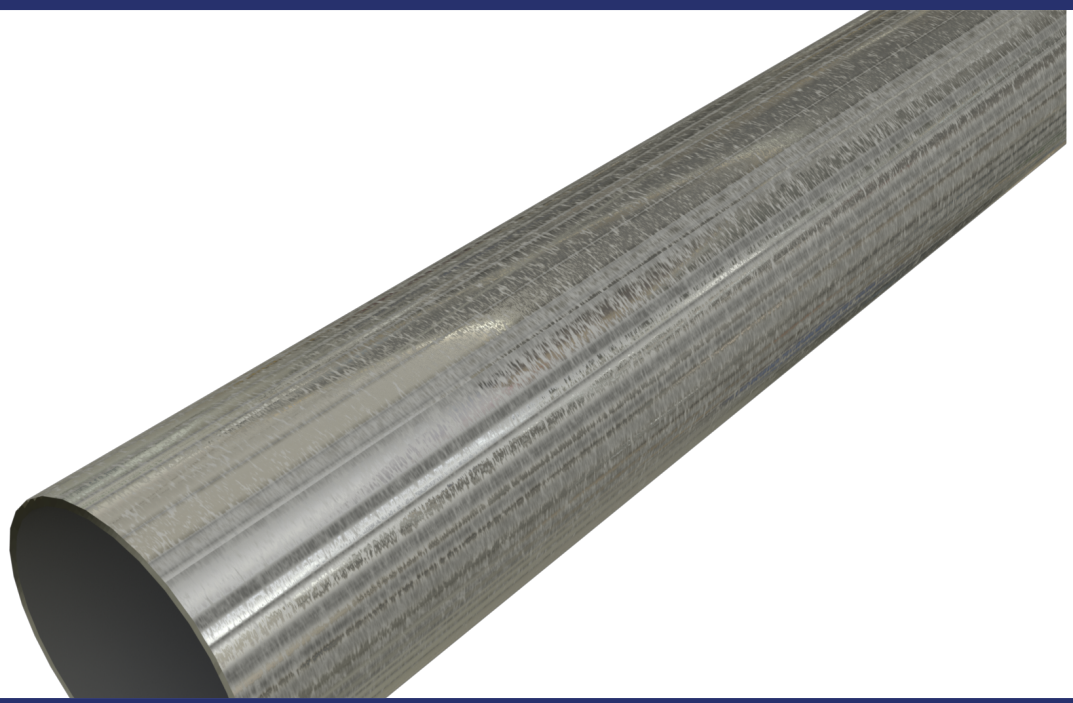
Direct **1.800.882.5543**

ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH ISO 14025 AND ISO 21930:2017, OPT. EN 15804+A2

SmartEPD-2024-021-0122-01

Galvanized EMT Conduit



Atkore™

SMART EPD
CERTIFIED
ENVIRONMENTAL PRODUCT DECLARATION

Date of Issue:	Expiration:	Last updated:
May 14, 2024	May 14, 2029	May 14, 2024

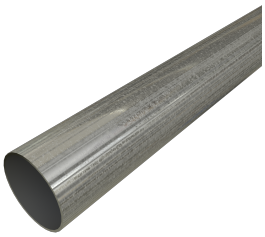
General Information

Atkore

16100 South Lathrop Ave, Harvey, IL, 60426

(708) 915 1547

rhorner@atkore.com atkore.com



Product Name:	Galvanized EMT Conduit
Declared Unit:	1 m of conduit product
Declaration Number:	SmartEPD-2024-021-0122-01
Date of Issue:	May 14, 2024
Expiration:	May 14, 2029
Last updated:	May 14, 2024
EPD Scope:	Cradle to gate with other options A1 - A3, C1 - C4, D
Market(s) of Applicability:	North America

Reference Standards

Standard(s):	ISO 14025 and ISO 21930:2017, opt. EN 15804+A2
Core PCR:	Smart EPD® Part A Product Category Rules for Building and Construction Products and Services v.1.01, ISO 21930:2017 Date of issue: January 15, 2024
Sub-category PCR:	Smart EPD® Part B PCR for Electrical and Telecommunications Conduit v.1 Date of issue: January 31, 2024 Valid until: January 31, 2029
Sub-category PCR review panel:	Contact Smart EPD for more information.
General Program Instructions:	Smart EPD General Program Instructions v.1.0, November 2022

Verification Information

ACLCA PCR Guidance Version:	2022 ACLCA PCR Guidance Process and Methods Toolkit version 1.0
ACLCA PCR Conformance Level:	Transparency
LCA Author/Creator:	Matthew Neiman | matt.neiman@truenorthcollective.net
EPD Program Operator:	Smart EPD | info@smartepd.com | www.smartepd.com 585 Grove St., Ste. 145 PMB 966, Herndon, VA 20170, USA

Verification:

Independent critical review of the LCA and data, according to ISO 14044 and ISO 14071 : External

Nicole Kennard | Consultant | nicolejjk.17@gmail.com

Independent external verification of EPD, according to ISO 14025 and reference PCR(s) : External

Nicole Kennard | Consultant | nicolejjk.17@gmail.com

Limitations, Liability, and Ownership

The EPD owner has sole ownership, liability, and responsibility for the EPD.

Environmental declarations from different programs (ISO 14025) may not be comparable. Comparison of the environmental performance of products using EPD information shall be based on the product's use and impacts at the building or construction works level, and therefore EPDs may not be used for comparability purposes when not considering the whole building life cycle. EPD comparability is only possible when all stages of a life cycle have been considered. However, variations and deviations are possible. Example of variations: Different LCA software and background LCI datasets may lead to differences in results upstream or downstream of the life cycle stages declared.

The environmental impact results of products in this document are based on a declared unit and therefore do not provide sufficient information to establish comparisons. The results shall not be used for comparisons without knowledge of how the physical properties of the product impact the precise function at the construction level. The environmental impact results shall be converted to a functional unit basis before any comparison is attempted.

Organization Information

Atkore is a leading manufacturer of electrical and critical infrastructure products for commercial, industrial, data center, telecommunications, water, and solar applications. Significant product categories include metal conduit, plastic conduit, electrical cable and flexible conduit, metal framing, and cable management systems.

Further information can be found at: https://www.atkore.com/

Product Description

EZ-Pull™ Electrical Metallic Tubing (EMT) is a high-quality conduit with E-Z Pull™ interior coating that provides a smooth surface for faster wire pulling. EMT has a hot galvanized steel surface and uses a patented inline Flo-Coat™ process for long-lasting exterior protection. Atkore's EMT conforms to standards UL 797, NEC Article 250.118, and ANSI C80.3. This product is manufactured as conduit and elbows. Offered as Atkore brands Allied Tube and Conduit, Calconduit, and Columbia-MBF.

Further information can be found at: https://www.atkore.com/Products/Conduit/Electrical-Metallic-Tubing-(EMT)/EZ-Pull(r)-EMT

Product Information

Declared Unit:	1 m of conduit product
Mass:	0.975 kg
Product Specificity:	✓ Product Average
	✗ Product Specific

Averaging:

This EPD covers galvanized EMT products manufactured by Atkore including straight conduit, elbows and sweeps. It is a product-average, manufacturer-average EPD, that is a declaration of an average product as an average from several of the manufacturer's plants. Product variations include differences in inner and outer diameter, wall thickness, length, bends, colors and labels.

Data tables, including product and packaging components, LCIA indicators, and other non-LCIA inventory metrics are reported for the production-weighted average of EMT products offered by Atkore. Values were normalized to the mass of conduit products and averaging was weighted by the total production mass of each product.

Results in this EPD are reported per declared unit (1 m) of EMT conduit products of trade size 1". The data tables were calculated by multiplying the mass-normalized average values by the linear density of 1" EMT, as described in the PCR. Details on extrapolating results to other trade sizes are provided in the section on Environmental Impacts.

Primary manufacturing on products in this category is carried out at two facilities belonging to Atkore. There is no secondary manufacturing. Only the production from the Atkore Harvey plant was considered in the LCA study. This comprises more than 99.5% of Atkore's EMT production, by which it was determined to be representative of the grouping, and no analysis on variation between manufacturing locations was carried out.

Variation in GWP Result (Products): -4.29% to +2.38%

Plants

Atkore
16100 Lathrop Ave, Harvey, IL 60426, USA

Product Specifications

Product SKU(s): 1" galvanized steel EMT conduit

Product Classification Codes: EC3 - UtilityPiping
Masterformat - SECTION 26 05 33.13

Outer diameter: 2.95E+01 mm

Inner diameter: 2.66E+01 mm

Wall thickness: 1.45E+00 mm

Material density: 7727 kg/m3

Mass per meter: 9.75E-01 kg

Performance standards: UL Std 797, CSA Std C22.2 No. 83.1, ANSI Std C80.3, NEC Article 250.118

Material Composition

Material/Component Category	Origin	% Mass
Steel coil	None	97.32
Zinc	None	1.96
Paints	None	0.72

Packaging Material	Origin	kg Mass
High tensile steel strapping	None	8.61E-04
Filament tape	None	2.33E-04
Label	None	3.41E-03

Biogenic Carbon Content	kg C per m of conduit product
Biogenic carbon content in product	None
Biogenic carbon content in accompanying packaging	0.00312

Hazardous Materials
No regulated hazardous or dangerous substances are included in this product.

EPD Data Specificity

Primary Data Year: 2021

Manufacturing Specificity:

- ✗ Industry Average
- ✓ Manufacturer Average
- ✗ Facility Specific

Software and LCI Data Sources

LCA Software: SimaPro v. 9.5

LCI Foreground Database(s): Ecoinvent v. 3.9.1 | Cut-off | DATASMART LCI Package v. 2021

LCI Background Database(s): Ecoinvent v. 3.9.1 | Cut-off | Ecoinvent v. 2 | Cut-off

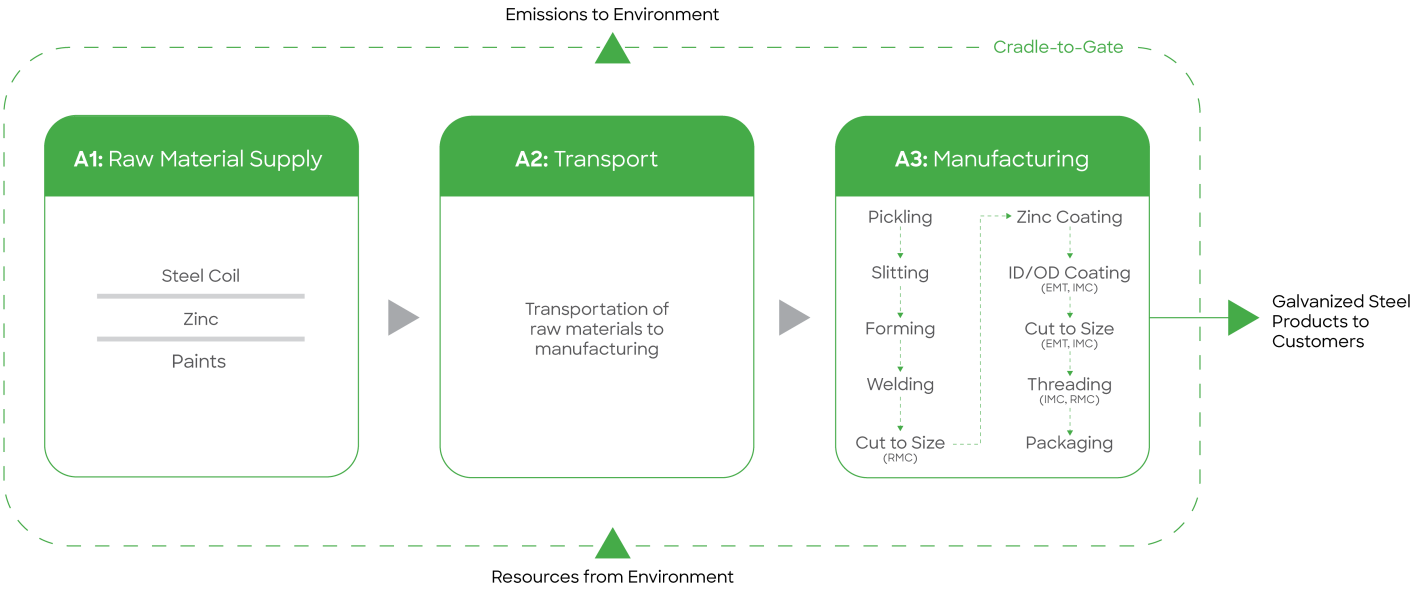
Renewable Electricity

Renewable electricity is used: No

System Boundary

Production	A1	Raw material supply	✓
	A2	Transport	✓
	A3	Manufacturing	✓
Construction	A4	Transport to site	ND
	A5	Assembly / Install	ND
Use	B1	Use	ND
	B2	Maintenance	ND
	B3	Repair	ND
	B4	Replacement	ND
	B5	Refurbishment	ND
	B6	Operational Energy Use	ND
	B7	Operational Water Use	ND
End of Life	C1	Deconstruction	✓
	C2	Transport	✓
	C3	Waste Processing	✓
	C4	Disposal	✓
Benefits & Loads Beyond System Boundary	D	Recycling, Reuse Recovery Potential	✓

Product Flow Diagram



Life Cycle Module Descriptions

A1, extraction and upstream production
The information module “extraction and upstream production” covers raw material extraction and processing and processing of secondary material input (e.g. recycling processes). This is inclusive of generation of electricity, steam and heat from energy resources used for extraction and processing of raw materials, including their extraction, refining and transport.

In EMT conduit manufacturing, A1 includes all upstream impacts associated with the production of raw materials used, including steel coil, zinc coating, and protective paints.

A2, transport to factory
The information module “transport to factory” covers transport of raw materials and other inputs from the supplier to the factory. Primary data was collected on transport distances and modes for this project. Where more than one supplier provided identical raw materials, a mass-weighted average distance was determined per mode. Average distances apply to the entire quantity of supplied materials, inclusive of any excess weight required to account for yield losses.

Making up more than 90% of galvanized EMT conduit by weight, impacts from the A2 stage are driven by the transport of steel coil, with an average transport distance of 325 kilometers by truck.

A3, manufacturing
The information module “manufacturing” includes:

- production of ancillary materials or pre-products
- generation of electricity, steam and heat from primary energy resources used in manufacturing, including their extraction, refining and transport
- manufacturing of products and co-products, including their extraction, manufacturing and transport
- manufacturing of packaging, including their extraction, manufacturing and transport
- waste management from manufacturing packaging and manufacturing wastage including transport up to the recycler or disposal

Manufacturing of galvanized steel EMT includes several processing steps:

1. Impurities, rust, and scale are removed by dipping the purchased steel coil in a vat of hydrochloric acid in a process known as "pickling".
2. The coil is slit lengthwise to create "multiples" or "mults" of the proper width.

3. Mults are cold-roll formed into a round tube of specific diameter and welded along the seam.
4. These tubes are galvanized by applying a zinc coat to the inner and outer surfaces through the Atkore Flo-Coat process.
5. Extra protection is added with a polymer topcoat.
6. Conduit shells are cut to their final length.
7. Conduit is strapped together in bundles with high-tensile steel strapping and stacked into piles using wood dunnage for storage and shipping.

LCA Discussion

Allocation Procedure

The inputs and outputs to the manufacturing plant are allocated per the stepwise method detailed in ISO 21930, Section 7.2.4, 7.2.5, and 7.2.6. Most plant inputs and outputs are assigned across total production (inclusive of galvanized EMT products and other products) using mass-based allocation. Subdivision for product and packaging raw material inputs and scrap amounts was made possible through product bills of materials (BOMs). No co-products are generated in conduit manufacturing, although there are minor output streams for which Atkore receives economic reimbursement. Potential loads and benefits associated with these materials for recycling are addressed in module D.

This study uses the cut-off approach method for recycling. According to this approach, the first life of a material bears the environmental burdens of its production (e.g., raw material extraction and processing) and the second life (e.g., scrap input) bears the burdens of refurbishment (e.g., collection and refining of scrap). The burdens from waste treatment are taken on by the next life of the product and not included in this study. Potential environmental benefits and burdens related to recycled materials are addressed in information module D.

Cut-off Procedure

For the processes within the system boundary, all energy and material flows were included in the model. No known flows were excluded. All upstream and downstream activities were included using a combination of primary and secondary data. While the majority of inventory data were sourced from primary resources, representative proxies were used to close gaps in the absence of primary data.

Data Quality Discussion

Foreground data were sourced from primary information provided by the Atkore and suppliers and has been reviewed by TrueNorth Collective to ensure precision and completeness. In order to balance out seasonal variations, operations data over a 12-month period, corresponding to the 2021 calendar year, was used to represent production activities. In addition, key model inputs such as mass balance, energy balance and emission inventory were reviewed by the Parallel and TrueNorth Collective teams. Primary data was only included for one of the two facilities manufacturing Atkore EMT. This data was deemed sufficiently representative of the product grouping since it accounts for more than 99.5% of total EMT production.

Ecoinvent v3.9.1 was used as the main database for background data. This version was published in 2023. Ecoinvent is widely used in research and industry to support life cycle assessment practices. Each version of this database goes through thorough review process and documentation of precision and completeness is available by the provider. DATASMART v2021 was used for US state specific manufacturing electricity. DATASMART is based on the US electricity grid in 2018. Both ecoinvent and DATASMART use the cut-off approach to allocation of materials for recycling.

Assessment of data quality, representativeness, and potential sources of uncertainty is performed using the Enhanced Pedigree Matrix proposed in the guidance for “Assessing Data Quality of Background Life Cycle Inventory (LCI) Datasets” published by the ACLCA in 2022. No major concerns were found to exist regarding data quality. Minor data gaps in packaging quantities and supplier transportation distances were resolved using estimates from related flows or expert judgement. Secondary data were assessed and deemed to be adequate for temporal, geographical and technological representativeness.

Results

Environmental Impact Assessment Results

TRACI 2.1

per 1 m of conduit product.

LCIA results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks.

Impact Category	Method	Unit	A1	A2	A3	A1A2A3	C1	C2	C3	C4	D
GWP-total	TRACI 2.1	kg CO2 eq	2.18	0.034	0.195	2.41	ND	0.0149	ND	0.00593	-1.35
ODP	TRACI 2.1	kg CFC 11 eq	6.01e-8	5.79e-10	1.87e-8	7.94e-8	ND	2.54e-10	ND	1.85e-10	-4.28e-8
AP	TRACI 2.1	kg SO2 eq	0.00764	0.000146	0.000753	0.00854	ND	0.000064	ND	0.00004	-0.0045
EP	TRACI 2.1	kg N eq	0.00796	0.0000328	0.000555	0.00855	ND	0.0000144	ND	0.00000683	-0.00493
POCP	TRACI 2.1	kg O3 eq	0.121	0.00378	0.00934	0.134	ND	0.00166	ND	0.00106	-0.0719

Abbreviations:

GWP = Global Warming Potential, 100 years (may also be denoted as GWP-total, GWP-fossil (fossil fuels), GWP-biogenic (biogenic sources), GWP-luluc (land use and land use change)), ODP = Ozone Depletion Potential, AP = Acidification Potential, EP = Eutrophication Potential, SFP = Smog Formation Potential, POCP = Photochemical oxidant creation potential, ADP-Fossil = Abiotic depletion potential for fossil resources, ADP-Minerals&Metals = Abiotic depletion potential for non-fossil resources, WDP = Water deprivation potential, PM = Particular Matter Emissions, IRP = Ionizing radiation, human health, ETP-fw = Eco-toxicity (freshwater), HTP-c = Human toxicity (cancer), HTP-nc = Human toxicity (non-cancer), SQP = Soil quality index.

The minimum system boundary per the PCR is cradle-to-gate with modules A1-A3, covering supplied raw materials (A1), transport from suppliers to Atkore (A2), and production of manufactured products (A3). Additionally, for conduit products which are not buried or encased in concrete, the end-of-life stage should be declared, encompassing modules C1 (deconstruction), C2 (transport), C3 (waste processing), and C4 (disposal). Module D must also be declared, specifying potential loads and benefits of secondary material, secondary fuel or recovered energy leaving the product system based on scenarios.

The conduit products referenced in this EPD may be used in applications where they are buried or encased in concrete but may also be used for other applications. A cradle-to-gate with end-of-life system boundary was thus adopted for the study. In cases where the user or reader wishes to apply the findings to a buried/encased application, they may leverage the cradle-to-gate results.

Comparisons cannot be made between product-specific or industry average EPDs at the design stage of a project, before a building has been specified. Comparisons may be made between product-specific or industry average EPDs at the time of product purchase when product performance and specifications have been established and serve as a functional unit for comparison. Environmental impact results shall be converted to a functional unit basis before any comparison is attempted. Any comparison of EPDs shall be subject to the requirements of ISO 21930 or EN 15804. EPDs are not comparative assertions and are either not comparable or have limited comparability when they have different system boundaries. EPDs are not comparative assertions and are either not comparable or have limited comparability when they have different system boundaries, are based on different product category rules or are missing relevant environmental impacts. Such comparison can be inaccurate, and could lead to erroneous selection of materials or products which are higher-impact, at least in some impact categories.

Resource Use Indicators

per 1 m of conduit product.

Indicator	Unit	A1	A2	A3	A1A2A3	C1	C2	C3	C4	D
RPRE	MJ, LHV	1.12	0.00638	0.157	1.28	ND	0.0028	ND	0.00125	-0.462
RPRM	MJ, LHV	ND	ND	0.0285	0.0285	ND	ND	ND	ND	ND
RPRT	MJ, LHV	1.12	0.00638	0.186	1.31	ND	0.0028	ND	0.00125	-0.462
NRPRE	MJ, LHV	24	0.516	4.69	29.2	ND	0.227	ND	0.157	-14.2
NRPRM	MJ, LHV	ND	ND	0.00496	0.00496	ND	ND	ND	ND	ND
NRPRT	MJ, LHV	24	0.516	4.7	29.2	ND	0.227	ND	0.157	-14.2
SM	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
RSF	MJ, LHV	ND	ND	ND	ND	ND	ND	ND	ND	ND
NRSF	MJ, LHV	ND	ND	ND	ND	ND	ND	ND	ND	ND
RE	MJ, LHV	ND	ND	ND	ND	ND	ND	ND	ND	ND
ADPF	MJ, LHV	1.13	0.0679	0.209	1.41	ND	0.0299	ND	0.0215	-0.563
FW	m3	0.0167	0.0000718	-0.00111	0.0157	ND	0.0000316	ND	0.000157	-0.006

Abbreviations:

RPRE or PERE = Renewable primary resources used as energy carrier (fuel), RPRM or PERM = Renewable primary resources with energy content used as material, RPRT or PERT = Total use of renewable primary resources with energy content, NRPRE or PENRE = Non-renewable primary resources used as an energy carrier (fuel), NRPRM or PENRM = Non-renewable primary resources with energy content used as material, NRPRT or PENRT = Total non-renewable primary resources with energy content, SM: Secondary materials, RSF = Renewable secondary fuels, NRSF = Non-renewable secondary fuels, RE = Recovered energy, ADPF = Abiotic depletion potential, FW = Use of net freshwater resources, VOCs = Volatile Organic Compounds.

Waste and Output Flow Indicators

per 1 m of conduit product.

Indicator	Unit	A1	A2	A3	A1A2A3	C1	C2	C3	C4	D
HWD	kg	ND	ND	0.00708	0.00708	ND	ND	ND	ND	ND
NHWD	kg	ND	ND	ND	ND	ND	ND	ND	0.975	ND
HLRW	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
ILLRW	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
CRU	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
MFR	kg	ND	ND	0.0367	0.0367	ND	ND	ND	ND	ND
MER	kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
EE	MJ, LHV	ND	ND	ND	ND	ND	ND	ND	ND	ND

Abbreviations:

HWD = Hazardous waste disposed, NHWD = Non-hazardous waste disposed, RWD = Radioactive waste disposed, HLRW = High-level radioactive waste, ILLRW = Intermediate- and low-level radioactive waste, CRU = Components for re-use, MFR or MR = Materials for recycling, MER = Materials for energy recovery, MNER = Materials for incineration, no energy recovery, EE or EEE = Recovered energy exported from the product system, EET = Exported thermal energy.

The materials for recycling in A3 reflect scrap steel which is collected and reintroduced into the steel market.

Carbon Emissions and Removals

per 1 m of conduit product.

Indicator	Unit	A1	A2	A3	A1A2A3	A5	C1	C2	C3	C4	D
BCRK	kg CO2	ND	ND	0.00312	0.00312	ND	ND	ND	ND	ND	-0.00213
BCEK	kg CO2	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND

Abbreviations:

BCRP = Biogenic Carbon Removal from Product, BCEP = Biogenic Carbon Emission from Product, BCRK = Biogenic Carbon Removal from Packaging, BCEK = Biogenic Carbon Emission from Packaging, BCEW = Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes, CCE = Calcination Carbon Emissions, CCR = Carbonation Carbon Removals, CWNR = Carbon Emissions from Combustion of Waste from Non-Renewable Sources used in Production Processes, GWP-luc = Carbon Emissions from Land-use Change.

The biogenic removals and emissions are determined following the ACLCA Guidance to Calculating Non-LCIA Inventory Metrics in Accordance with ISO 21930:2017.

Biogenic carbon removals in information module A3 stem from the supply of paper used in the conduit label. Assumed recycling rates of this packaging was 68%, taken from the PCR Part A. Emissions in module A5 come from the proportional part of the label which is landfilled and/or incinerated. The negative removal in module D shows the biogenic carbon leaving the system through recycling. There is a net zero flow of biogenic carbon across all information modules: all biogenic carbon which enters the system in A3 is either emitted in A5 or exits the system in module D.

Impact Scaling Factors

Trade Size	Outer Diameter (mm)	Inner Diameter (mm)	Minimum Wall Thickness (mm)	Linear Density (kg per m)	Scaling Factor (per m)	Scaling Factor (per 10 ft)
1/2"	1.79E+01	1.58E+01	1.07E+00	4.31E-01	4.42E-01	1.35E+00
3/4"	2.34E+01	2.09E+01	1.25E+00	6.60E-01	6.77E-01	2.06E+00
1"	2.95E+01	2.66E+01	1.45E+00	9.75E-01	1.00E+00	3.05E+00
1-1/4"	3.84E+01	3.51E+01	1.65E+00	1.46E+00	1.49E+00	4.55E+00
1-1/2"	4.42E+01	4.09E+01	1.65E+00	1.70E+00	1.74E+00	5.31E+00
2"	5.58E+01	5.25E+01	1.65E+00	2.14E+00	2.20E+00	6.70E+00
2-1/2"	7.30E+01	6.94E+01	1.83E+00	3.38E+00	3.47E+00	1.06E+01
3"	8.89E+01	8.52E+01	1.83E+00	4.31E+00	4.42E+00	1.35E+01
3-1/2"	1.02E+02	9.74E+01	2.11E+00	5.00E+00	5.13E+00	1.56E+01
4"	1.14E+02	1.10E+02	2.11E+00	6.10E+00	6.26E+00	1.91E+01

The results in this EPD are reported for 1 m (the declared unit) of 1" galvanized EMT conduit (the reference product). Environmental impacts of other trades sizes (product-specific results) can be calculated using the equation Results_PS=Results_Ref×Multiplier_PS where Results_PS is the product-specific result per declared unit, Results_Ref is the result per declared unit of the reference product and Multiplier_PS is the product-specific declared unit multiplier.

The impact scaling factor table provides the product-specific declared unit multipliers, Multiplier_PS (marked as "Scaling Factor" in the table), which are calculated as (specific product's mass per declared unit)/(reference product's mass per declared unit), that is, the quotient between the linear density of a specific trade size and that of 1" EMT conduit. Scaling factors are also provided for calculating impacts per 10-foot section of conduit.

This calculation method can be used to derive a result for any or all declared indicators and for any reported life module(s). When using this equation, the EPD user defines which indicator and life cycle stage(s) they are using to calculate a product-specific result. The Results_PS and Results_Ref values must align with the same indicator and life cycle stage(s) included.

Scenarios

End of Life
C1 - C4 Modules

Collection Process

Collected with Mixed Construction Waste:	0.975 kg

Recovery

Landfill:	0.975 kg

Disposal

Product or Material for Final Disposal:	0.975 kg
Removals of Biogenic Carbon:	0.00312 kg CO2

Assumptions for scenario development:

C1, deconstruction/demolition includes dismantling or demolition, of the construction product from the construction works and the energy use for this, including initial on-site sorting of the materials. For conduit, removal at the end of life requires only human labor and does not contribute to lifetime environmental impacts.

C2, transportation to waste processing or disposal, includes the transportation of the discarded construction product as part of the waste processing, for example to a recycling site and transportation of waste, for example to final disposal. Per the PCR, transport was assumed to be 100 kilometers by truck.

C3, waste processing, which includes, for example collection of waste fractions from the deconstruction, recovery and waste processing of material flows resulting in materials for reuse, secondary materials, secondary fuels or export of recovered energy. As conduit is not recycled, the C3 modules is included but has zero impacts.

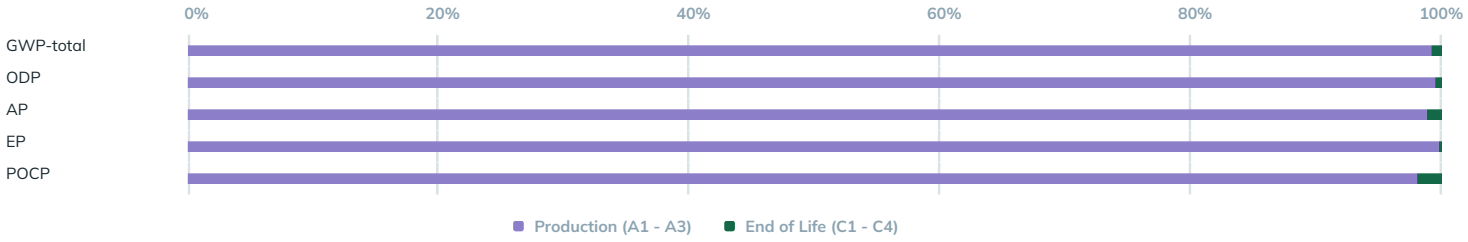
C4, disposal of waste which includes physical pre-treatment and management of the disposal site, including provision and transport of all materials, products and related energy and water use. Per the PCR, conduit was assumed to be landfilled at End of Life.

Reuse, Recovery and / or Recycling Potentials & Relevant Scenario Information
D Module

Recycling Rate of Product:	0.72 %
Further assumptions for scenario development:	Module D information declares potential loads and benefits of secondary material, secondary fuel or recovered energy leaving the product system based on scenarios. The impacts associated with module D are calculated by identifying the point of substituted functional equivalence where the secondary material substitutes primary production and subtracting the impacts resulting from the substituted production of the product. For galvanized EMT conduit, excess material from manufacturing including scrap steel, zinc dross and spent pickle liquor are all fully recovered and accounted for in module D. A product recycling rate of 74% based on the rate specified in the PCR Part A is also included. In addition, biogenic carbon removals associated with packaging materials leaving the system boundary through recycling during A5 are declared in module D.

Interpretation

The contribution analysis indicates that the majority of the potential impacts occur as a result of raw material supply (A1) and, to a lesser extent, manufacturing (A3). By far the biggest contributor to impacts is the supply of steel coil in A1. In A3 the main impact drivers are usage of electricity and natural gas.



Additional Environmental Information

Atkore galvanized conduit does not contain any substances identified as hazardous according to the normative requirements in standards or regulations applicable in the markets where they are sold, and the additional standards listed in PCR Part A 8.4.1.

Atkore galvanized conduit does not release any dangerous substances as classified by the standards listed in PCR Part A 8.4.1.

Further Information

Secondary data contributing >30% to disclosed environmental impact categories.

Component or Input	Dataset Used	Database
1006, 1008 or 1010 Steel	Steel, unalloyed {RoW}| steel production, converter, unalloyed | Cut-off, U	ecoinvent 3.9.1
Zinc Coat	Zinc {GLO}| market for zinc | Cut-off, U	ecoinvent 3.9.1
Natural Gas with Combution	Heat, central or small-scale, natural gas {RoW}| market for heat, central or small-scale, natural gas | Cut-off, U	ecoinvent 3.9.1
Electricity	Various state-specific grid mixes from DATASMART LCI Package	DATASMART v2021

References

- ACLCA. (2019). ACLCA Guidance to Calculating Non-LCIA Inventory Metrics in Accordance with ISO 21930:2017. ACLCA.
- Bare, J., Gloria, T., & Norris, G. (2006). Development of the Method and U.S. Normalization Database for Life Cycle Impact Assessment and Sustainability Metrics. Environmental Science & Technology .
- Bare, J., Norris, G., Pennington, D., & McKone, T. (2003). TRACI: The Tool for the Reduction and Assessment of Chemical and Other Environmental Impacts. Journal of Industrial Ecology .
- IPCC, I. P. (2013). IPCC Fith Assessment report. The PhysicalSceince Basis. Retrieved from http://www.ipcc.ch/report/ar5/wg1/.
- ISO. (2006). ISO 14025:2006: Environmental labels and declarations — Type III environmental declarations — Principles and procedures. International Organization for Standardization.
- ISO. (2006). ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines. International organization for Standardization (ISO).
- ISO. (2006). ISO14040:2006/Amd 1:2020 -- Environmental management -- Life cycle assessment -- Principles and framework. International Organization for Standardization.

- ISO. (2014). ISO 14046:2014 Environmental management - Water footprint - Principles, requirements and guidelines.
- ISO 21930. (2017). Sustainability in buildings and civil engineering works — Core rules for environmental product declarations of construction products and services.
- Long Trail Sustainability. (2020). DATASMART LCI Package.
- Mukherjee, A., & Bhat, C. G. (2022). Assessing Data Quality of Background Life Cycle Inventory (LCI) Datasets. ACLCA.
- Smart EPD. (2024). Part A Product Category Rules for Building and Construction Products and Services (Smart EPD, Standard 1000, Version 1.01).
- Smart EPD. (2024). Part B Product Category Rules for Electrical and Telecommunications Conduit (Smart EPD, Standard 1000-001 Version 1.0).
- Weidema B P, B. C. (2013). Overview and methodology. Data quality guideline for the ecoinvent database version 3. St. Gallen: The ecoinvent Centre.

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