

# STEEL CONDUITS

ODOT SPEC	AASHTO unless noted as ASTM	CORRUGATION PROFILE	SIZE (round)	CONDUIT TYPE	MATERIAL
707.01	M 36	1/4" or 1/2" annular(circumferential) or helical	6"-84"	A,D,E underdrains lining	metallic coated (zinc galvanizing) or aluminum coated steel
707.02	M 36	1" annular(circumferential) or helical	36"-120"	A,D,E lining	metallic coated (zinc galvanizing) or aluminum coated steel
707.03	M 167	2", 5 1/2", or 6" annular(circumferential)	60"-312" (for 2" corrugations) 240"-750" (for 5 1/2" corrugations) 245"-629" (for 6" corrugations)	A,D lining	zinc coated steel structural plate
707.04 (707.01, 707.02)	M 36 (707.01,707.02) M 245 M 246	1/4" or 1/2" 1" annular(circumferential) or helical	12"-120"	A lining	polymeric coated (10 mils) over metallic coated steel (zinc galvanizing)
707.05 (707.01)	M 36 (707.01) M 190, Type B or C	1/2" annular(circumferential) or helical	12"-84"	A,F	bituminous coated steel w/ paved invert
707.07 (707.02)	M 36 (707.02) M 190, Type B or C	1" annular(circumferential) or helical	36"-120"	A,F	bituminous coated steel w/ paved invert
707.11 (707.01, 707.02)	M 36 (707.01, 707.02) ASTM A 849, Class C	1/2" 1" annular(circumferential) or helical	24"-120"	B,C	mortar lined steel
707.12	M 36, Type IR	7 1/2" c-c rib spacing	18"-90"	B,C lining	aluminum coated steel spiral rib
707.13 (707.01)	M 36 (707.01) M 190, Type D	1/2" annular(circumferential) or helical	12"-84"	B,C	bituminous lined steel
707.14 (707.02)	M 36 (707.02) M 190, Type D	1" annular(circumferential) or helical	36"-120"	B,C	bituminous lined steel
707.15	ASTM A 964	2" or 5.5"	max 25'-5" span	A	zinc coated steel box
707.17	M 36, Type IIA	7 1/2" c-c rib spacing	20"-81" span 16"-59" rise		aluminum coated steel spiral rib pipe arch
707.18 (707.04)	M 36, Type IA (707.04) M 245 M 246	1/4", 1/2", or 1" helical	12"-120"	lining	polymeric coated (10 mils) over metallic coated steel (zinc galvanizing) w/ smooth interior liner
707.19 (707.01, 707.02, 707.04)	M 36, Type IA (707.01, 707.02) M 245 (707.04) M 246 (707.04) M 274	1/4", 1/2", or 1" helical	12"-120"	lining	aluminum coated steel corrugated exterior w/ polymeric coated (10 mils) over metallic coated steel (zinc galvanizing) smooth interior liner
707.20 (707.01, 707.02, 707.04)	M 36, Type IA (707.01, 707.02) M 245 (707.04) M 246 (707.04) M 218	1/4", 1/2", or 1" helical	12"-120"	lining	metallic coated (zinc galvanizing) steel corrugated exterior w/ polymeric coated (10 mils) over metallic coated steel (zinc galvanizing) smooth interior liner
748.01	ANI/AWWA C151/A21.51 ANSI/AWWA C150/A21.50 ANSI/AWWA C104/A21.4	solid wall	4"-64"	B,C Sanitary water	ductile iron or ductile iron with polyethylene encasement per 748.07
748.06	ASTM A 139, Grade B or ASTM A 53, Grade B (711.02)	solid wall	4"-24+"	casing, lining	metallic coated steel (zinc galvanizing) or non-metallic coated for boring and jacking

Type I: single circular corrugated sheet, Type IA: outer circular corrugated sheet and inner circular smooth sheet (double wall)

Type IR: single circular outward projecting helical rib sheet (spiral rib), Type II: Type I reformed into a pipe-arch

Type IIA: Type IA reformed into a pipe-arch, Type IIR: Type IR reformed into a pipe-arch

Type III: Type I with perforations

Coating Designation: Type A fully coated, Type B half coated, w/paved invert, Type C fully coated, w/paved invert, Type D fully coated, fully lined

Steel Grades: A, B, C, D, E

# ALUMINUM CONDUITS

ODOT SPEC	AASHTO unless noted as ASTM	CORRUGATION PROFILE	SIZE (round )	APPLICABLE CONDUIT TYPE	MATERIAL
707.21	M 196	1/4", 7/16", 1/2" annular (circumferential) or helical	6"-72"	A,D,E,F lining underdrains	aluminum alloy
707.22	M 196	1" annular (circumferential) or helical	36"-120"	A,D,E,F lining	aluminum alloy
707.23	M 219	2 1/2" annular (circumferential)	60"-312"	A,D lining	aluminum alloy structural plate
707.24	M 196, Type IR	c-c rib spacing of 7 1/2"	18"-66"	B,C lining	aluminum spiral rib
707.25	ASTM B 864 Type 1 or 2, Class A-D spacing	2 1/2"	max 25'-5" span	A	aluminum box

Type I: single circular corrugated sheet, Type IA: outer circular corrugated sheet and inner circular smooth sheet (double wall)

Type IR: single circular outward projecting helical rib sheet (spiral rib), Type II: Type I reformed into a pipe-arch

Type IIA: Type IA reformed into a pipe-arch, Type IIR: Type IR reformed into a pipe-arch

Type III: Type I with perforations

Rib Stiffeners: Type 1 or Type 2

Rib Stiffeners spacing Type 1 or 2: Class A 54" c-c, Class B 27" c-c, Class C 18" c-c, Class D 9" c-c