

CITY OF OREGON, OHIO - BUILDING AND ZONING INSPECTION DEPARTMENT
 5330 SEAMAN ROAD, OREGON, OH 43616 / PHONE (419) 698-7071 / FAX (419) 698-7150

Application for *NO WORK AUTHORIZED UNTIL APPLICATION IS APPROVED BY DEPARTMENT STAFF*

SEWER CONNECTION INSPECTION & PERMIT

TYPE OR PRINT ALL INFORMATION

- | | |
|---|--|
| <input type="checkbox"/> Sanitary Connection per day (\$150.00)
each additional 1/2 day (\$75.00) | <input type="checkbox"/> Alter, open or repair sanitary sewers other than residential (\$125.00) maximum of 4 hours, each additional 1/2 day (\$75.00) |
| <input type="checkbox"/> Alter, open or repair residential sewer line (\$75.00) maximum of 4 hours, each additional 1/2 day (\$35.00) | <input type="checkbox"/> Storm Connection (\$40.00) |
| | <input type="checkbox"/> Sanitary Kills (\$75.00) |
- WORK IS? NEW REPLACEMENT REPAIR ALTERATION
- Tap Size _____ to be connect to Sewer No. _____.

Project Street Address	Parcel No.
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TO BE DONE FOR (OWNER):

Permit Granted to Contractor, if not Owner:

Company Name	Phone No.
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Address	City/State	Zip Code
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VERIFICATION BY ASSESSMENT OFFICE FOR FEES DUE

Use Zone:	Fees Due:	Date Paid:	Clerk Ok:
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ACKNOWLEDGEMENT

The undersigned is the owner or an authorized agent for the owner that hereby agrees to construction of said Sewer or Drain in strict compliance with all applicable Ordinances, Rules and Regulations of the City of Oregon. I agree to complete the work within THIRTY (30) DAYS after the permit is issued. The Owner has the right to make a new application as necessary. The undersigned further agrees to save the City of Oregon harmless from any and all claims from damages arising from the construction of said Sewer or Drain. It is further understood that NO ROOF WATER, SOFT TILE DRAINS OR CISTERN OVERFLOWS are to be connected to a storm sewer without written approval of the Director of Public Service.

CALL 24 HOURS IN ADVANCE FOR REQUIRED INSPECTIONS AT (419) 698-7071

Email Address: _____

X	Applicant Signature: _____	Date: _____
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DO NOT WRITE BELOW THIS LINE - FOR OFFICIAL USE ONLY

RECEIPT NUMBER	DATE PAID	FEE PAID	Application Approved: Comm. Bldg. & Zoning	Date

INSPECTION RECORD: Measurements below are for informational purposes only. The City of Oregon does not guarantee the location or condition of the wye branches, risers or crossovers noted below.

A _____-inch wye branch is located on the _____ side of _____ (St., Ave., etc.)
 at _____ feet from Manhole # _____ on _____ (St., Ave., etc.)

Confirming Inspector: _____ Date Inspected: _____

PERMITS ARE NOT TRANSFERABLE OR REFUNDABLE

**GENERAL PROCEDURES FOR
RESIDENTIAL SANITARY SEWER TAPS AND REPAIRS**

The following details and standards are required for installation of sanitary and storm sewer taps:

1. Contractor shall notify Building Inspection Dept. at (419) 698-7077 24 hours in advance prior to starting any work. No pipe shall be covered prior to inspection.
2. Materials of construction of the sewer and the methods to be used in excavating, placing of pipe, jointing, pipe bedding, testing and backfilling the trench, shall all conform to the pertaining standards and specifications of the City and other applicable rules and regulations of the State of Ohio.
3. The contractor shall be responsible for locating and exposing the sanitary sewer tap based on information provided from the City's records. The City cannot guarantee the exact location of any wye, riser or crossover, as all measurements are approximate.
4. All pipes shall be 6-in. PVC gasket type (SDR-35) and conform to ASTM 3034. When joint dimensions are not compatible, a proper shielded RC Series FERNCO rubber boot adapter shall be provided.
5. Sewers must have a gradual fall of not less than 1 ft. per 100 ft. length from the building to the sewer, with no sharp breaks in the grade. Change in direction must be made with bends or wyes. Contractor shall check grade of each pipe section placed prior to placing stone backfill.
6. Sewer pipe shall be laid on and covered with at least 4-in. of granular material (#57 or #67 stone). There shall be a minimum of 36-in. cover over pipe. Trench backfill shall be of a suitable material removed from the excavation. Debris, frozen material, large clods or stones, organic matter, or other unstable materials shall not be used for backfill within 2 ft. of the top of the pipe. Backfill shall be placed in such a manner as not to disturb the alignment of the pipe.
7. Straight lines, proper fittings and provisions for cleaning shall be used to insure proper flow and trouble-free use. When making direction changes, a 45° fitting is the maximum allowed. Sewer pipe shall not be bent or forced over for a connection. Where bends of 45 degrees or less are used, a minimum of one 3-ft. straight section of pipe shall separate the bends.
8. Sanitary sewers must be laid with at least a 10-ft. horizontal separation from any waterline. Whenever a sanitary sewer and waterline must cross, the sewer shall be laid to provide a minimum vertical distance of 18 in. between the outside of the waterline and the sewer.
9. No other utilities will be permitted in the same trench as the sanitary sewer.
10. A 6-in. sewer clean-out with a removable waterproof cap shall be provided and placed 3 to 5 ft. from the edge of the building. Cleanouts with threaded plugs are recommended.
11. Sewer line shall exit house at one point. Only 4-in. PVC schedule 40 pipe is permitted within the house. Maximum of 3-ft. outside the foundation or to cleanout. Any pipe run more than 3-ft. from the house must be ASTM 3034.
12. Any pipe under pavement must have premium backfill of a granular material, #411 or #304 stone, to the top of the trench. Said granular material must be placed in 6-in. layers and be properly tamped to achieve compaction.
13. If there is a ground water problem, the contractor will be allowed to dam with clay dirt one section of pipe 13 ft. anywhere on 6-in. service run as long as it is 10 ft. from the house.
14. No ground water, dirt, or debris shall enter the sanitary sewer while the tap is open.
15. All septic tanks must be pumped out and caved in when connecting to public sewer. Bottom must be busted and walls caved in to a minimum of 2 ft. -0 below grade. Only clean dirt is allowed as backfill. This is not a dump site and therefore only rubble allowed within pit is tank sidewalls and top. The abandonment of septic tanks must be per the Toledo Lucas County Health Dept. and the Ohio Dept. of Health Regulations (Sec 3701-29-18 of the OAC).
16. Roof drains, sump pumps, foundation drains, yard drains and all other clean water connections to the sanitary sewer are prohibited.
17. By law, everyone MUST contact the Ohio Utilities Protections Service (OUPS), 1-800-362-2764 or 8-1-1, at least 48 hrs. but no more than 10 working days (excluding weekends and legal holidays) before beginning ANY digging project.
18. The entering of manholes, sewers and tap connection are susceptible to confined space permitted areas. The sewer contractor shall comply with all OSHA safety procedures in accordance with their company.

RC Series & 5000 Series Repair Couplings

The Ultimate RC Couplings - Engineered for resistance to heavy earth loads and shear forces, while providing improved pipe alignment.



5000 Series

316 S.S. Nut and Bolt Clamps



Strong Back RC Series

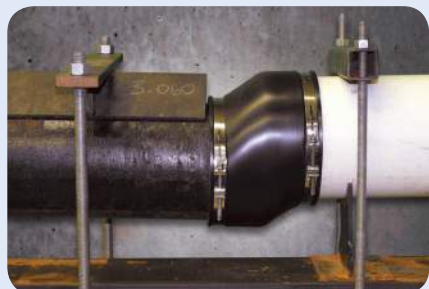
300 S.S. Band Clamps



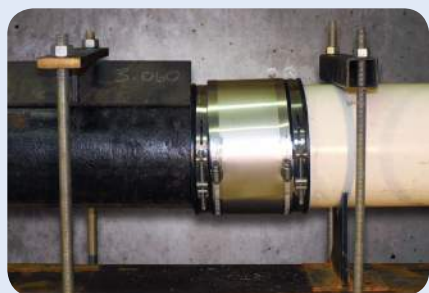
.012" (12mil) Stainless Steel Shield



One Piece Molded-in Bushing Gaskets



Shear Resistance Test using an unshielded sewer coupling per ASTM C 1173 (applied load 50 pounds per nominal inch of pipe diameter)



Shear Resistance Test using a Fernco Repair Coupling per ASTM C 1173 (applied load 50 pounds per nominal inch of pipe diameter)

Meets requirements of:

- **ASTM C 1173** - Standard Specification for Flexible Transition Couplings for Underground Piping Systems
- **ASTM D 5926** - Standard Specification for Poly Vinyl Chloride (PVC) Gaskets for Drain, Waste, and Vent (DWV), Sewer, Sanitary, and Storm Plumbing Systems
- **CSA B602** - mechanical couplings for drain, waste, vent pipe and sewer pipe

Ultimate Shear Resistance - .012" (12mil) 300 series stainless steel shear ring is the heaviest the industry offers with excellent resistance to corrosion.

Ultimate Pipe Alignment - Due to the thickness and strength of the Strong Back RC Series shear ring, you are assured consistent pipe alignment against shear forces from soil compaction, shifting and settling, and improper backfill.

Ultimate Sealing Clamps - Fernco's RC Series Couplings come with 301 series stainless steel worm gear clamps. The 5000 Series Couplings come with 316 series stainless steel nut and bolt clamps. Both offer great corrosion resistance.

Ultimate Sealing Gasket - Designed for same pipe size and material connections as well as differing pipe size and pipe material connections. The gasket has a smooth inside surface providing greater sealing performance than ribbed surfaces. The smooth internal wall of the gasket makes contact 360° over its entire length. This equates to a larger sealing surface and a higher coefficient of friction, providing maximum sealing capabilities as well as preventing slippage under the weight of shear forces. The gaskets have excellent resistance to sewer gas, common household chemicals found in the sewer system, as well as dry rot, fungus growth, ozone and UV. When properly installed Strong Back RC series gaskets will provide decades of problem free service.

Ultimate Transition Connections - When making transition connections of differing pipe sizes or materials, the Strong Back RC Series gasket features a one piece molded-in bushing. *Designated part numbers come with an insert bushing.

Ultimate Versatility - Fernco RC Series & 5000 Series couplings offer the ability to connect clay, concrete, asbestos cement fibre, ductile iron, cast iron, steel, plastic and copper.



United States
PH: 810-653-9626
FX: 810-653-8714

www.fernco.com

Canada
PH: 519-332-6711
FX: 519-332-8610

1001 & 5001 RC Series - Clay to Clay

RC SERIES	5000 SERIES	A		B		C	
1001-44RC	5001-44RC	5.29	134	5.29	134	4.10	104
1001-44WCRC	5001-44WCRC	5.51	140	5.51	140	3.97	101
1001-64RC*	5001-64RC	7.50	191	5.50	140	6.02	153
1001-66RC	5001-66RC	7.50	191	7.50	191	6.02	153
1001-66WCRC	5001-66WCRC	8.00	203	8.00	203	6.00	152
1001-88RC	5001-88RC	9.65	245	9.65	245	5.99	152
1001-88WCRC	5001-88WCRC	10.00	254	10.00	254	6.00	152
1001-1010RC	5001-1010RC	12.40	315	12.40	315	5.90	150
1001-1010WCRC	5001-1010WCRC	12.40	315	12.40	315	5.90	150
1001-1212RC	5001-1212RC	14.51	369	14.51	369	6.38	162
1001-1212WCRC	N/A	15.25	387	15.25	387	6.42	163
1001-1515RC	5001-1515RC	18.14	461	18.14	461	9.89	251
1001-1818RC	5001-1818RC	21.90	556	21.90	556	9.63	245
1001-2424RC	N/A	28.97	736	28.97	736	9.89	251

1002 & 5002 RC Series - Clay to Cast Iron or Plastic

RC SERIES	5000 SERIES	A		B		C	
1002-43RC*	5002-44RC	5.29	134	3.38	86	4.10	104
1002-44RC	5002-44WCRC	5.36	136	4.51	115	4.07	103
1002-44WCRC	N/A	5.44	138	4.55	116	3.96	101
1002-46RC*	5002-46RC	5.13	130	6.60	168	5.74	146
1002-55RC*	5002-55RC	6.60	168	5.50	140	5.74	146
1002-64RC*	5002-64RC	7.50	191	4.50	114	6.02	153
1002-64WCRC*	5002-64WCRC	8.00	203	4.50	116	6.00	152
1002-64WCRC-SDR*	5002-66RC	8.00	203	4.38	111	6.00	152
1002-66RC	5002-66WCRC	7.50	191	6.56	167	5.89	150
1002-66WCRC	5002-86RC	8.04	204	6.38	162	5.91	150
1002-88RC	5002-88RC	9.76	248	8.57	218	5.96	151
1002-88WCRC	5002-88WCRC	10.00	254	8.66	220	6.00	152
1002-1010RC*	5002-1010RC	12.40	315	10.75	273	5.90	150
1002-1010WCRC*	5002-1010WCRC	12.40	315	10.75	273	5.90	150
1002-1210RC*	N/A	14.51	369	10.60	269	6.00	152
1002-1212RC*	5002-1212RC	14.51	369	12.60	320	6.38	162
1002-1212WCRC*	N/A	15.25	387	12.60	320	6.42	163
1002-1215RC*	N/A	14.38	365	15.25	387	6.42	163
1002-1515RC*	5002-1515RC	18.14	461	15.40	391	9.89	251
1002-1818RC*	5002-1818RC	21.90	556	19.00	483	9.63	245
1002-2121RC*	N/A	25.46	647	22.30	566	9.89	251
1002-2424RC*	N/A	28.97	736	25.00	635	9.89	251

1003 & 5003 RC Series - Clay to AC or Ductile Iron

RC SERIES	5000 SERIES	A		B		C	
1003-44RC	5003-44RC	5.41	137	4.94	125	4.07	103
1003-66RC	5003-66RC	7.25	184	6.84	174	5.93	151
1003-66WCRC*	N/A	8.00	203	6.80	173	6.00	152
1003-68RC*	N/A	7.20	183	9.05	230	5.98	152
1003-8-10RC*	N/A	9.65	245	11.22	285	5.97	152
1003-88RC	5003-88RC	9.75	248	9.06	230	5.94	151
1003-1010RC*	N/A	12.40	315	11.12	282	5.90	150
1003-1212RC*	5003-1212RC	14.51	369	13.20	335	6.38	162
N/A	5003-1516RC	18.10	460	18.10	460	9.89	251
1003-1818RC*	N/A	21.90	556	19.50	495	9.63	245

1004 & 5004 RC Series - Concrete to Concrete

RC SERIES	5000 SERIES	A		B		C	
1004-44RC	5004-44RC	5.51	140	5.51	140	3.97	101
1004-66RC	5004-66RC	7.58	193	7.58	193	5.94	151
1004-88RC	5004-88RC	10.38	264	10.38	264	5.90	150

1004-1010RC	5004-1010RC	12.40	315	12.40	315	5.90	150
1004-1212RC	5004-1212RC	15.25	387	15.25	387	6.42	163
N/A	5004-1212LCRC	15.25	387	15.25	387	6.42	163
1004-1515RC	N/A	19.74	501	19.74	501	9.89	251

1006 & 5006 RC Series - Concrete to Cast Iron or Plastic

RC SERIES	5000 SERIES	A		B		C	
1006-44RC*	5006-44RC	5.64	143	4.51	115	3.97	101
1006-64RC*	N/A	7.58	193	4.38	111	5.94	151
1006-66RC*	5006-66RC	7.63	194	6.63	168	5.94	151
1006-86RC*	N/A	10.38	264	6.38	162	5.90	150
1006-88RC*	5006-88RC	10.49	266	8.63	219	5.90	150
1006-1010RC*	5006-1010RC	12.40	315	10.75	273	5.90	150
1006-1212RC*	5006-1212RC	15.25	387	12.60	320	6.42	163
1006-1515RC*	N/A	19.74	501	15.40	391	9.89	251

1051 & 5051 RC Series - AC or Ductile Iron to Cast Iron or Plastic

RC SERIES	5000 SERIES	A		B		C	
1051-44RC	5051-44RC	4.80	122	4.39	112	3.94	100
1051-45RC*	N/A	5.00	127	5.52	140	3.97	101
1051-46RC*	5051-46RC	4.75	121	6.60	168	5.74	146
1051-55RC*	N/A	5.90	150	5.50	140	5.92	150
1051-64RC*	5051-64RC	6.95	177	4.38	111	5.92	150
1051-65RC*	N/A	6.95	177	5.50	140	5.92	150
1051-66RC	5051-66RC	6.69	177	6.69	170	5.91	150
1051-8-10RC*	N/A	9.05	230	10.63	270	5.89	150
1051-88RC	5051-88RC	9.25	235	8.51	216	5.97	152
1051-10-8RC*	N/A	11.02	280	8.38	213	5.97	152
N/A	5051-1010RC	11.02	280	10.52	267	5.85	148
1051-1212RC*	5051-1212RC	13.37	340	12.60	320	5.97	152
N/A	5051-1615RC	18.14	461	15.40	391	9.89	251
1051-1818RC	N/A	19.74	501	19.74	501	9.89	251

1055 & 5055 RC Series - AC or Ductile Iron to AC or Ductile Iron

RC SERIES	5000 SERIES	A		B		C	
1055-44RC	5055-44RC	4.75	121	4.75	121	3.96	101
1055-66RC	5055-66RC	6.65	169	6.65	169	5.92	150
1055-88RC	5055-88RC	9.05	230	9.05	230	5.98	152
1055-1212RC	5055-1212RC	13.37	340	13.37	340	5.97	152

1056 RC Series - Cast Iron, Plastic, Copper, Steel or Lead

RC SERIES	5000 SERIES	A		B		C	
1056-150RC	N/A	1.94	49	1.94	49	3.43	87
1056-22RC	N/A	2.41	61	2.41	61	3.45	88
1056-32RC*	N/A	3.52	89	2.38	60	3.96	101
1056-33RC	N/A	3.46	88	3.46	88	3.98	101
1056-43RC*	5056-43RC	4.58	116	3.38	86	4.02	102
1056-44RC	5056-44RC	4.58	116	4.58	116	4.02	102
1056-54RC*	5056-54RC	5.52	140	4.38	111	3.97	101
1056-55RC	5056-55RC	5.52	140	5.52	140	3.97	101
1056-64RC*	5056-64RC	6.60	168	4.50	114	5.74	146
1056-65RC*	N/A	6.60	168	5.62	143	5.74	146
1056-66RC	5056-66RC	6.60	168	6.60	168	5.74	146
1056-86RC*	N/A	8.64	219	6.63	162	6.04	153
1056-88RC	5056-88RC	8.64	219	8.64	219	6.04	153
1056-1010RC	5056-1010RC	10.63	270	10.63	270	5.89	150
1056-1212RC	5056-1212RC	12.52	318	12.52	318	6.32	161
1056-1515RC	5056-1515RC	15.92	404	15.92	404	9.89	251
1056-1818RC	5056-1818RC	19.10	485	19.10	485	9.89	251
N/A	5056-2424RC	25.10	638	25.10	638	9.89	251