



Corma Super Coupling (Patent Pending)

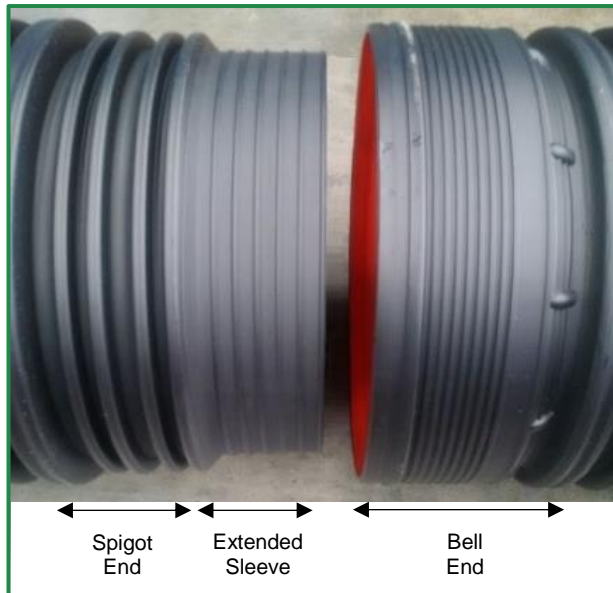
Evolution of Corma's Coupling Technology

Corma's new Super Coupling continues a long history of innovation in coupling technology. We first developed and patented the single layer in-line coupling in 1985, which then led to our patented designs for both the regular and bell & spigot double layer in-line couplings.

In 2016 Corma has developed the Super Coupling (patent pending) as an innovative and cost effective solution that significantly increases the effectiveness of the pipe's seal.

Corma Super Coupling

The Corma Super Coupling utilizes an extended sleeve to create an even more robust seal between the pipe layers within the coupling. In addition, it is also designed to maintain a full seal even during events such as earthquakes, high traffic loads and imperfect installation that cause movements in the soil.



In a situation where the pipe is partially inserted into the coupling, the extended sleeve of the Super Coupling maintains a full seal, reducing the chance of obstructions and maintains the strength and integrity of the joint. In contrast, the overlap on many other couplings on the market are too short and compromise the seal when there are movements in the soil or if the coupling is shifted during installation. This can cause a void between the pipe layers and allow debris to accumulate.

As an evolution of Corma's in-line coupling production capabilities, the Super Coupling can also be manufactured in-line on Corma corrugated plastic pipe production lines. This significantly increases productivity and decreases cost since no downstream bellling machines are required. In addition, only one sealing ring is needed for the pipe connection to form water tight joints.

Super Coupling Configurations

The Super Coupling will be available in the following configurations:

- Bell & Spigot Double Layer Coupling
- Regular Double Layer Coupling
- Bell & Spigot Single Layer Coupling
- Regular Single Layer Coupling

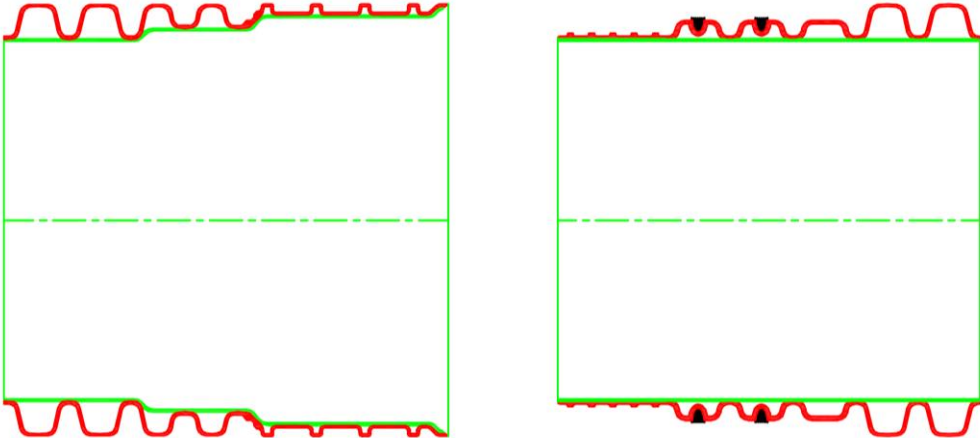
Please contact us if you are interested to learn more about how our Super Coupling technology can improve the strength and durability of your local infrastructure as well as help meet standards that are constantly evolving.

March 2017

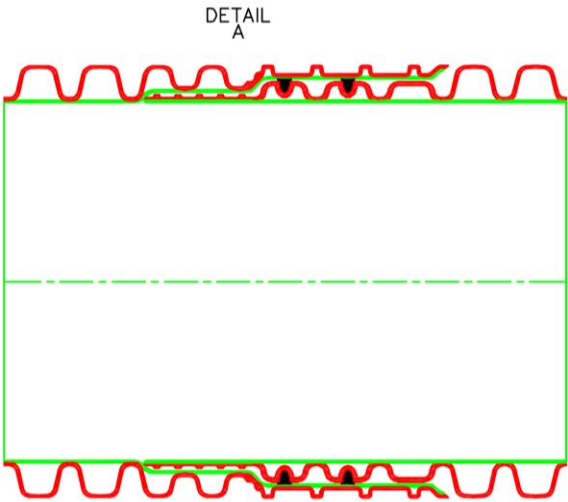
Corma Inc. 10 McCleary Court, L4K 2Z3 Concord (Toronto), ON Canada
Tel. +1-905-669-9397 Email: info@corma.com www.corma.com



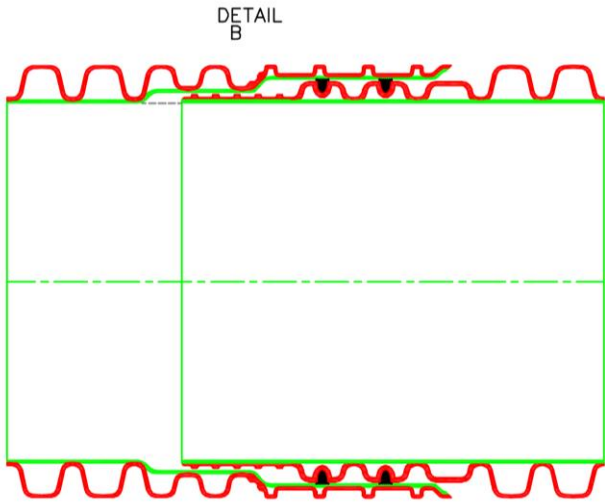
Super Coupling Diagrams – Bell & Spigot Double Layer Design



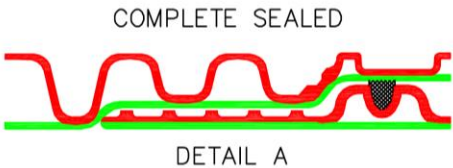
PIPE AFTER TRANSITION PIECES IS CUT OUT



PIPE FULLY INSERTED INTO COUPLING

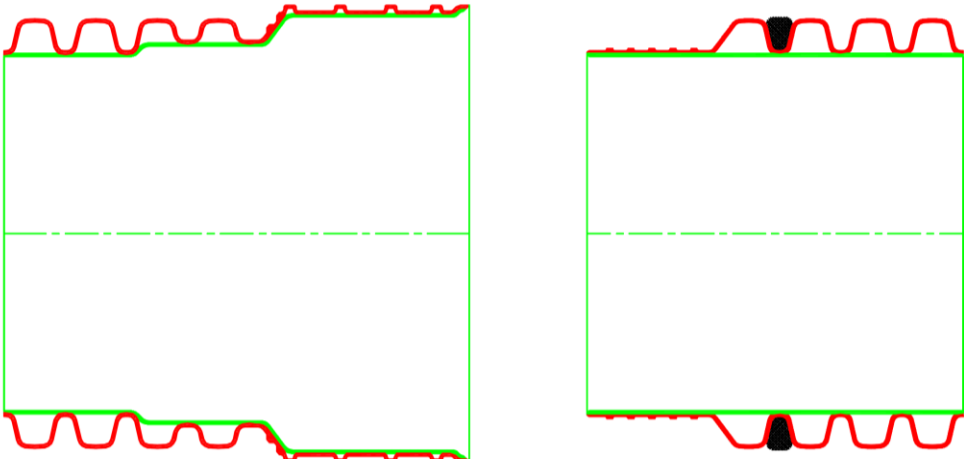


PIPE PARTIALLY INSERTED INTO COUPLING

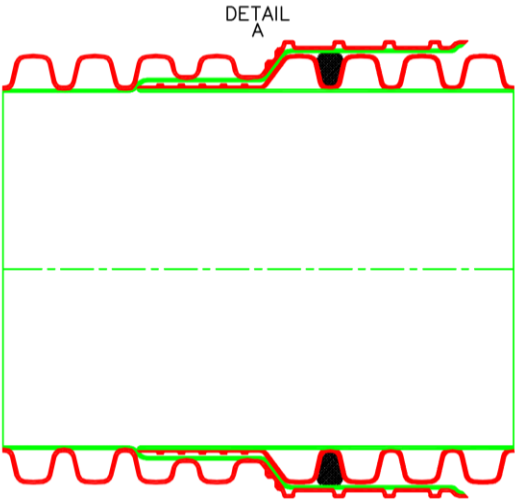




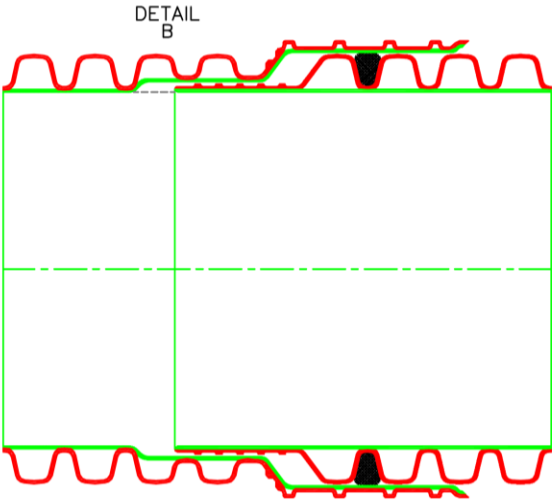
Super Coupling Diagrams – Regular Double Layer Design



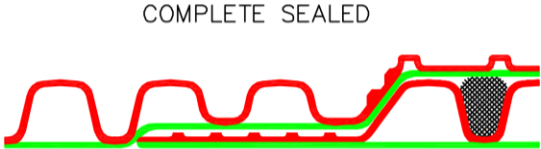
PIPE AFTER TRANSITION PIECES IS CUT OUT



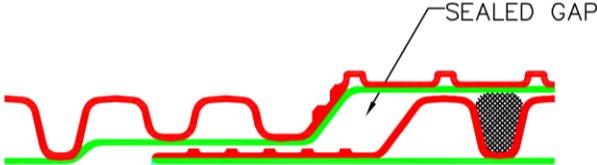
PIPE FULLY INSERTED INTO COUPLING



PIPE PARTIALLY INSERTED INTO COUPLING



DETAIL A



DIM "XX"

DETAIL B



Technical Data

| Corrugator Model Number* Vacuum Forming or Blow Molding | Pipe Range | | | | Maximum Line Speed** | | Maximum Output** | |
|--|------------|-----------|-----------|-----------|----------------------|--------|------------------|--------|
| | mm | | inches | | M/min | ft/min | Kg/hr | lbs/hr |
| | Min. I.D. | Max. O.D. | Min. I.D. | Max. O.D. | | | | |
| 053 | 3 | 20 | 0.12 | 0.8 | 50 | 165 | 30 | 66 |
| 130 | 6 | 110 | 0.25 | 4.5 | 55 | 180 | 360 | 790 |
| 430 | 6 | 160 | 0.25 | 6.3 | 35 | 115 | 450 | 990 |
| 630*** | 50 | 200 | 2.0 | 8.0 | 35 | 115 | 1040 | 2300 |
| 830*** | 50 | 300 | 2.0 | 12.0 | 35 | 115 | 1040 | 2300 |
| 1030 | 50 | 365 | 2.0 | 14.4 | 30 | 100 | 750 | 1650 |
| 1230 | 50 | 400 | 2.0 | 16.0 | 30 | 100 | 800 | 1760 |
| 1530 | 50 | 700 | 2.0 | 27.5 | 23 | 75 | 1000 | 2200 |
| 2030 | 100 | 800 | 4.0 | 32.0 | 10 | 33 | 1300 | 2860 |
| 3030 | 100 | 1200 | 4.0 | 48.0 | 6 | 20 | 1300 | 2860 |
| 4030 | 200 | 1500 | 8.0 | 60.0 | 5 | 16.5 | 1400 | 3100 |
| 6030 | 450 | 1800 | 18.0 | 72.0 | 3 | 10 | 1500 | 3300 |
| P 30/60 | 750 | 1800 | 30.0 | 72.0 | 1 | 3.3 | 1300 | 2860 |
| P 30/120 | 750 | 3000 | 30.0 | 120.0 | 1 | 3.3 | 1500 | 3300 |
| Vertical Corrugator Model Number | | | | | | | | |
| V 053 | 1 | 20 | 0.040 | 0.8 | 50 | 165 | 30 | 66 |
| V 130 | 4 | 100 | 0.160 | 4.0 | 50 | 165 | 215 | 475 |
| V 630 | 20 | 200 | 0.8 | 8.0 | 30 | 100 | 600 | 1320 |
| Rib-Pipe Model Number | | | | | | | | |
| R 2030 | 100 | 700 | 4.0 | 28.0 | 10 | 33 | 1100 | 2420 |
| R 3030 | 100 | 1000 | 4.0 | 40.0 | 10 | 33 | 1300 | 2860 |

* Mold blocks are interchangeable within family groupings. Also, molds from smaller corrugators can be used on larger corrugators, using Corma's carrier adaptors.

**Line speeds and outputs are theoretical and depend on: pipe diameter; type of plastic; machine model; cooling options; mold track length; temperature and quantity of cooling water; profile configuration; extruder capacity, etc.

***630-12 and 830-12 line speed and output based on high speed corrugator configuration