
TECHNICAL BULLETIN TB251

USE OF ANSI/AWWA C800 INSERT-STIFFENERS WITH MUNICIPEX PIPE

Product: MUNICIPEX[®] Pipe
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MUNICIPEX is CTS SDR9 PEXa pipe and is manufactured in accordance with the requirements per the ANSI/AWWA C904 standard for crosslinked polyethylene pipe intended for service line applications in underground water distribution systems.

ANSI/AWWA C904 standard *Section II.C.3 Joining Methods and Fittings* states "Fittings used on service line applications should be insert-stiffener type complying with the material and performance requirements of ANSI/AWWA C800 and the manufacturer's requirements for dimensions and tolerances."

Therefore, REHAU recommends that the underground fitting and insert-stiffener used with MUNICIPEX pipe must comply with the material and performance requirements of ANSI/AWWA C800 and must be recommended for use by the fitting manufacturer for CTS SDR9 PEX tubing per the ANSI/AWWA C904 standard.

When using underground compression fittings with MUNICIPEX pipe, an insert-stiffener is required to ensure a proper connection is made. REHAU recognizes that there are both stainless steel-type inserts and plastic-type inserts and both can be used with MUNICIPEX pipe as long as all fitting manufacturer's technical guidelines are met.

To demonstrate the importance of using a proper insert-stiffener, REHAU had a leading manufacturer of AWWA C800 underground fittings perform a test on MUNICIPEX pipe comparing the pull-out force with and without an insert. Based on the results, when used with inserts, MUNICIPEX pipe met both the manufacturer's internal requirements and AWWA requirements.

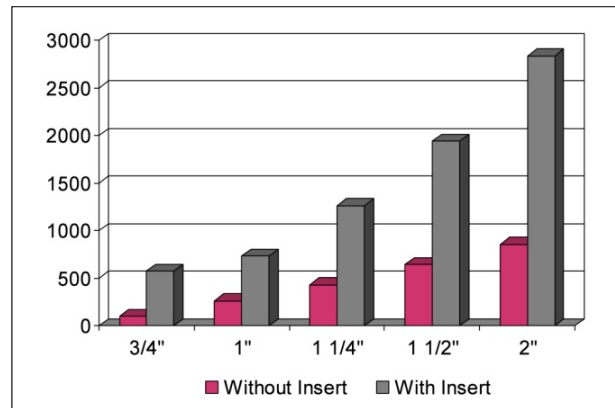
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Table 1: MUNICIPEX Pipe Pull-Out Testing

Pipe Size (in.)	Pull-Out Without Inserts (lb)	Pull-Out With Inserts (lb)
3/4	98	571
1	262	734
1 1/4	430	1261
1 1/2	643	1940
2	856	2840



It should be noted that ANSI/AWWA C904 fittings and insert-stiffeners are not sold by REHAU nor covered by our warranty.

Only those fitting systems sold by REHAU are included in REHAU *Sustainable Building Technology PEXa Limited Warranty*, 855.018 available at na.rehau.com/warranties. REHAU cannot warrant products it does not sell, even if they are connected to, used with, or associated in some way with a REHAU product.