PAVEMENT MIN. COVER FINAL BACKFILL MIN. COVER TO RIGID TO FLEXIBLE **PAVEMENT PAVEMENT INITIAL BACKFILL SPRINGLINE HAUNCH** 4" (100mm) FOR 12"-36" **BEDDING** (300-900mm) PIPE 6" (300mm) FOR 42"-60" (1050-1500) PIPE PROPER FOUNDATION SUITABLE SUB-GRADE UNDISTURBED SOIL MIN. TRENCH WIDTH SEE TABLE

POLYPROPYLENE DUAL-WALL STANDARD TRENCH DETAIL

MINIMUM RECOMMENDED TRENCH WIDTHS (ASTM D2321)	
PIPE DIA. in (mm)	MIN. TRENCH WIDTH in (mm)
4 (100)	21 (525)
6 (150)	23 (575)
8 (200)	26 (650)
10 (250)	28 (700)
12 (300)	30 (750)
15 (375)	34 (850)
18 (450)	39 (975)
24 (600)	47 (1175)
30 (750)	56 (1400)
36 (900)	63 (1600)
42 (1050)	72 (1800)
48 (1200)	80(2000)
60 (1500)	96 (2400)

MINIMUM COVER FOR H-25 LOADING* PIPE DIAMETER H-25 in (mm) in (mm) 4-48 (100-1200) 12 (300) 60 (1500) 18 (450)

*PLEASE CONSULT A PRINSCO ENGINEER FOR APPLICATIONS WHERE LOADS EXCEED H-25

NOTES:

- INSTALL ALL PIPE IN ACCORDANCE WITH ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS. LATEST EDITION.
- 2. FOUNDATION: TRENCH BOTTOMS WITH UNSTABLE OR UNYIELDING MATERIAL SHALL BE EXCAVATED TO A DEPTH DIRECTED BY THE ENGINEER AND REPLACED WITH SUITABLE MATERIAL. FOR UNSTABLE MATERIALS, GEOTEXTILE MAY BE USED TO STABILIZE THE TRENCH BOTTOM, IF DIRECTED BY THE ENGINEER..
- 3. BEDDING: APPROPRIATE BEDDING IS REQUIRED TO PROVIDE UNIFORM SUPPORT FOR THE PIPE AND TO SUSTAIN GRADE. BEDDING MATERIAL SHALL BE CLASS I, II OR III. AVOID BLOCKING TO BRING THE PIPE TO GRADE AND DO NOT ALLOW ROCKS OVER 1½ INCHES (38 mm) TO COME IN CONTACT WITH PIPE SURFACES. A SHOVEL OR RAKE SHOULD BE USED TO LEVEL THE SURFACE.
- 4. HAUNCHING: ADEQUATE HAUNCH SUPPORT IS CRITICAL TO THE INSTALLED PERFORMANCE OF BURIED PIPE. THE HAUNCH AREA ENCOMPASSES THE BEDDING ZONE UP TO THE SPRINGLINE OF THE PIPE. IF COMPACTION IS NECESSARY, AVOID DISTURBING PIPE ALIGNMENT DURING COMPACTION OPERATIONS. ALWAYS WORK ENOUGH MATERIAL UNDER THE HAUNCH TO PROVIDE ADEQUATE COMPACTION.
- 5. BACKFILLING: CLASS I, II OR III MATERIAL SHALL BE USED IN THE PIPE ZONE. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. DURING BACKFILL PLACEMENT, CARE SHOULD BE TAKEN TO PREVENT ROCKS LARGER THAN 1 ½ INCHES (38 mm) FROM ENTERING THE BACKFILL MATERIAL IMMEDIATELY AROUND THE PIPE.
- 6. MINIMUM COVER: TO WITHSTAND H-25 LOADING, THE AMOUNT OF COVER ABOVE THE PIPE CROWN SHOULD BE NO LESS THAN 12" (300 mm) FOR 12"-48" (300-1200 mm) DIAMETER PIPE AND 18" (450 mm) FOR 60" (1500 mm) DIAMETER PIPE. SPECIAL CARE SHOULD BE TAKEN TO REROUTE HEAVY CONSTRUCTION TRAFFIC TO ENSURE THE PIPE IS PROTECTED FROM TEMPORARY OVERLOADING AND DAMAGE. IF HEAVY CONSTRUCTION TRAFFIC CANNOT BE REROUTED, AND THE PIPE IS BURIED RATHER SHALLOW, ADDITIONAL COMPACTED SOIL SHOULD BE MOUNDED OVER THE PIPE TO CREATE AT LEAST 3 FEET (1 m) OF COVER OVER THE PIPE CROWN. THIS MOUND CAN THEN BE GRADED AT THE END OF CONSTRUCTION WHEN HEAVY TRAFFIC IS NO LONGER PRESENT.

THIS DETAIL DEPICTS RECOMMENDED INSTALLATION PRACTICES AND IS NOT INTENDED TO SUPERSEDE ANY NATIONAL, STATE OR LOCAL SPECIFICATIONS. PRINSCO BEARS NO RESPONSIBILITY FOR ANY ALTERATIONS, REVISION AND/OR DEVIATION FROM THIS STANDARD DETAIL. PRINSCO HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICE FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION TO VERIFY SUITABILITY. @ PRINSCO, INC.



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