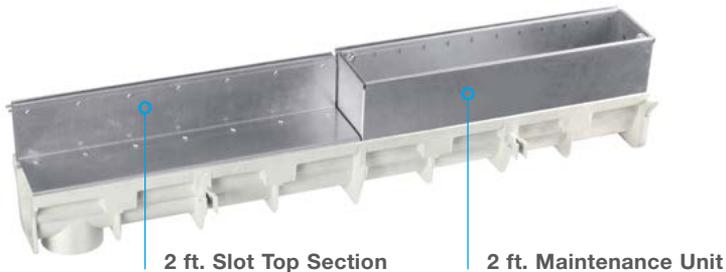


7 Installation of Removable Maintenance Units

Install Removable Maintenance Units at the beginning and end of every run and at intervals of approximately 100 ft. The purpose of the removable maintenance unit is to provide access for removing blockages in the channels. The first and last four feet should consist of 2 ft. of Slot Top + 2 ft. of maintenance unit. The maintenance unit can be installed inside the catch basin at the end of the run.

FIGURE 7: Installation of Maintenance Units



8 Pouring the Concrete Encasement

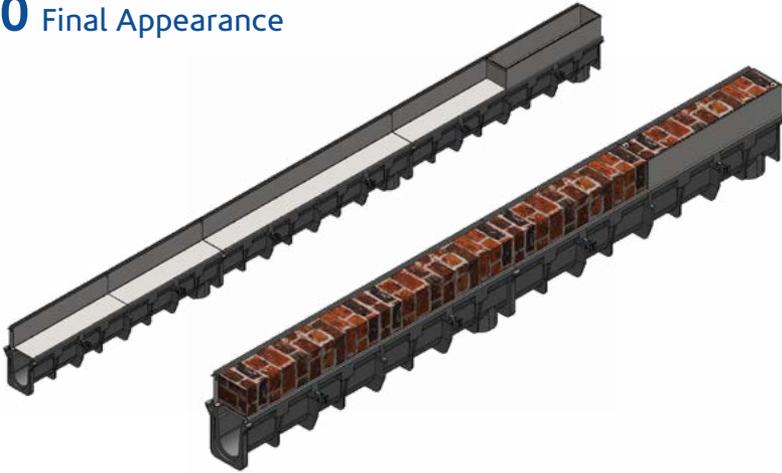
NDS recommends pouring concrete within 14 days of installing the channel sections for optimal performance. Concrete mix design, strength, curing time, and loading are project-specific and shall be per Engineer's recommendations.

- **Rebar Suspension Method:** Place the concrete around the base of the rebar posts on each side of the channel as well as under the channel between the rebar posts. Pour equal amounts on each side of the channel. All concrete shall be a single monolithic pour up to final grade. Vibrate to avoid bubbles using wand vibrator. Curing time shall be per Engineer's specifications.
- **FormBoard Suspension Method:** The first concrete pour shall be around the base and up to the cross bar of the formwork with blank grate in place. Vibrate to avoid bubbles using wand vibrator. Curing time shall be per Engineer's specifications. The second concrete pour shall be up to final grade and occur after removing the forms and blank grate and installing the slot top. Vibrate using wand vibrator. Curing time shall be per Engineer's specifications.

9 Expansion Joints

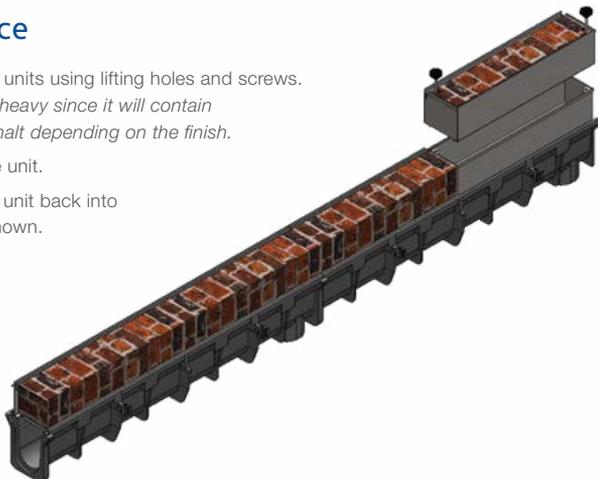
Install expansion joints parallel and perpendicular to channel. NDS standard recommendation on expansion joints is to locate these within 8" of all sides of the channel.

10 Final Appearance



11 Maintenance

- Remove maintenance units using lifting holes and screws.
Note: The unit will be heavy since it will contain bricks/concrete/asphalt depending on the finish.
- Clean out the in-place unit.
- Replace maintenance unit back into the in-place unit as shown.



Summary of Part Numbers

CHANNELS (COMMON TO GRATE TOP & SLOT TOP)

Sloped (3.99" to 12.06" deep)	DS-091 through DS -114
Neutral/Non-Sloped (3.99" to 11.39" deep)	DS-090N, -091N, -094N, -097N, -100N, -103N, -106N, -109N, and -112N

GRATE TOP

Standard	
Up to Car Traffic Loading	660, 661, 661LG, 662, 663, 664, 665
Up to Forklift Loading	DS-231, DS-232, DS-601, DS-602, DS-603, DS-604, DS-609
Up to Semi Truck Loading	DS-221
Heel-proof and ADA Compliant	
Up to Pedestrian Loading	DS-226, DS-228
Up to Car Traffic Loading	DS-670, DS-671
Ductile Iron Frame (Use only with Cast Iron & Ductile Iron Grates)	
Up to Pneumatic Tire Fork Lifts	DS-200H

SLOT TOP

Heel-proof and ADA Compliant	2' Slot top: DS-ST2 and 4' Slot top: DS-ST4
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ACCESSORIES (COMMON TO GRATE TOP AND SLOT TOP)

Catch Basin	DS-340
Universal End Cap	DS-224
Universal End Outlet	DS-227
Bottom Outlet Adapter for SRD-35 pipe	DS-126

ACCESSORIES (GRATE TOP)

Pro-Fit Grate Lock	DS-122
Duraslope Frame and End Screws	DS-123
Grate Screws	629
Optional Security Screws	DS-650
Duraslope Radius Coupling	DSRC
Grates for Radius Coupling	DS-660MG, -661MG, 661LGMG, - 662MG, -663MG, -664MG, -665MG, -681LGMG, -232MG, -226MG, -221MG

ACCESSORIES (SLOT TOP)

Maintenance Unit	DS-STMAINT
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