

# TRENCH DRAIN

» 865 SERIES

HydroTec™

## SPECIFICATION

Sioux Chief 865 Series HydroTec™ Maxi 100 trench drain shall be used where necessary for surface drainage. Trench drain shall incorporate a fiber-reinforced concrete channel and ductile iron edge rails, for use with ductile iron grating, having a 'boltless' grate-locking system. Channel shall have a U-shaped flow area and a smooth outer wall to maximize adhesion with concrete encasement and reduce trapped air pockets. Edge rails shall be integrally formed into the channel wall. Concrete thickness and reinforcement shall be per structural engineer's specification for the application. Designed in accordance with ASME A112.6.3

## MATERIALS

**Grating:** Ductile iron (ASTM A536 70-50-05)

**Edge Rails:** Ductile iron (ASTM A536 70-50-05)

**Drain channel:** Fiber-reinforced concrete - sloping profile (0.5%)

Compressive strength: C35/45 (DIN EN 206)

Frost and de-icing salt resistant (DIN EN 1433 Class +R)

Fire Rating: A2 - non-combustible, no smoke, no burning drip (DIN 4102)

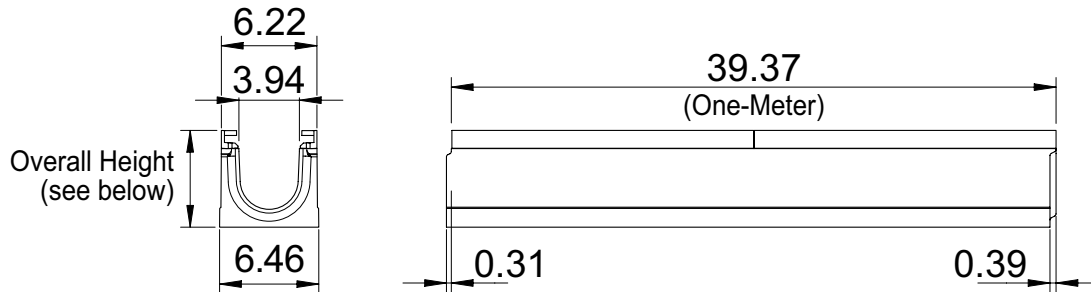
Thermal expansion/contraction:  $1 \times 10^{-6}$  mm/Kelvin\*

Maximum water penetration depth: 8 mm (watertight per DIN EN 1433)

|                  |                 |
|------------------|-----------------|
| ITEM # SUBMITTED | _____           |
| JOB NAME         | _____           |
| LOCATION         | _____           |
| ENGINEER         | _____           |
| CONTRACTOR       | _____           |
| PO#              | _____ TAG _____ |



\* Same as surrounding concrete foundation



## Specify Item Number

### SLOPING (1-METER) CHANNELS - INLET/OUTLET HEIGHT

|                                   |                                    |
|-----------------------------------|------------------------------------|
| <b>865-M4S01</b> = 4.33" / 4.52"  | <b>865-M4S02</b> = 4.52" / 4.72"   |
| <b>865-M4S03</b> = 4.72" / 4.92"  | <b>865-M4S04</b> = 4.95" / 5.12"   |
| <b>865-M4S05</b> = 5.12" / 5.31"  | <b>865-M4S06</b> = 5.31" / 5.51"   |
| <b>865-M4S07</b> = 5.51" / 5.71"  | <b>865-M4S08</b> = 5.71" / 5.91"   |
| <b>865-M4S09</b> = 5.91" / 6.10"  | <b>865-M4S10</b> = 6.10" / 6.30"   |
| <b>865-M4S11</b> = 6.30" / 6.50"  | <b>865-M4S12</b> = 6.50" / 6.69"   |
| <b>865-M4S13</b> = 6.69" / 6.89"  | <b>865-M4S14</b> = 6.89" / 7.09"   |
| <b>865-M4S15</b> = 7.09" / 7.28"  | <b>865-M4S16</b> = 7.28" / 7.48"   |
| <b>865-M4S17</b> = 7.48" / 7.68"  | <b>865-M4S18</b> = 7.68" / 7.87"   |
| <b>865-M4S19</b> = 7.87" / 8.07"  | <b>865-M4S20</b> = 8.07" / 8.27"   |
| <b>865-M4S21</b> = 8.27" / 8.46"  | <b>865-M4S22</b> = 8.46" / 8.66"   |
| <b>865-M4S23</b> = 8.66" / 8.89"  | <b>865-M4S24</b> = 8.89" / 9.06"   |
| <b>865-M4S25</b> = 9.06" / 9.25"  | <b>865-M4S26</b> = 9.25" / 9.45"   |
| <b>865-M4S27</b> = 9.45" / 9.65"  | <b>865-M4S28</b> = 9.65" / 9.84"   |
| <b>865-M4S29</b> = 9.84" / 10.04" | <b>865-M4S30</b> = 10.04" / 10.24" |

### DUCTILE IRON GRATING

|  |
|--|
| <b>865-M4DICH</b> = Half-meter, Class C250, Slotted - Heel-proof |
| <b>865-M4DICT</b> = Half-meter, Class C250, Transverse-Slotted   |
| <b>865-M4DIDL</b> = Half-meter, Class D400, Long-Slotted - ADA   |
| <b>865-M4DIEM</b> = Half-meter, Class E600, High-intake - Mesh   |
| <b>865-M4DIFL</b> = Half-meter, Class F900, Long-Slotted - ADA   |

### Accessories - Available Separately:

|   |
|---|
| 865-M4N105S: Side-outlet section - Half-meter - 6.30" height  |
| 865-M4N10B: Bottom-outlet section - One-meter - 6.30" height  |
| 865-M4N155S: Side-outlet section - Half-meter - 7.28" height  |
| 865-M4N15B: Bottom-outlet section - One-meter - 7.28" height  |
| 865-M4N205S: Side-outlet section - Half-meter - 8.27" height  |
| 865-M4N20B: Bottom-outlet section - One-meter - 8.27" height  |
| 865-M4N255S: Side-outlet section - Half-meter - 9.25" height  |
| 865-M4N25B: Bottom-outlet section - One-meter - 9.25" height  |
| 865-M4N305S: Side-outlet section - Half-meter - 10.20" height |
| 865-M4N30B: Bottom-outlet section - One-meter - 10.20" height |
| 865-M4CB: Catch basin with basket - Half-meter                |
| 865-4LR: Grate-locking rod for Maxi 100 System                |
| 865-4PC: PVC S&D connection pipe for 4" Nom. outlets          |
| 865-4RS: Rubber sleeve/seal for 4" Nom. bottom outlets        |
| 865-4EC: Closed end cap - 2-piece for Maxi 100 System         |
| 865-4OC: Open end cap - 2-piece for Maxi 100 System           |
| 865-4BK: Installation bracket for Maxi 100 System             |
| 865-TOOL: Grate locking/unlocking tool                        |
| 865-SHOVEL: Cleaning shovel for Maxi System                   |