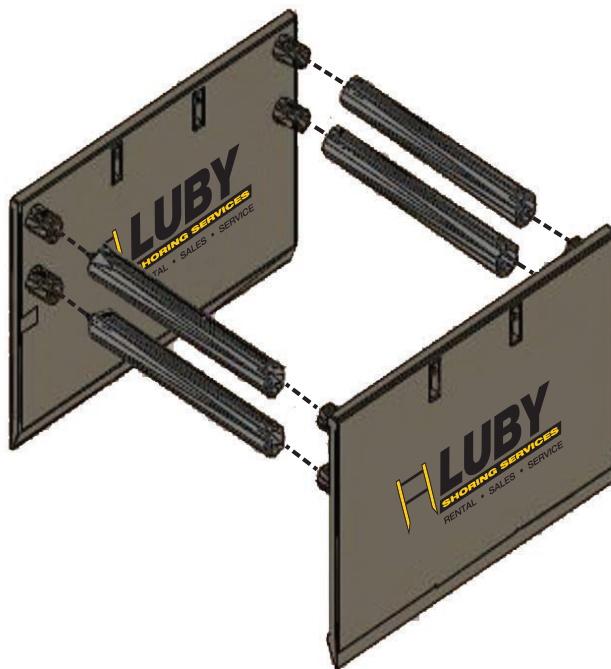


Spreaders

Spreader Sets for Steel Trench Shields



| MODEL | LENGTH | WEIGHT (LBS.) |
|---------|--------|---------------|
| SP-24-4 | 24" | 415 |
| SP-30-4 | 30" | 500 |
| SP-36-4 | 36" | 585 |
| SP-42-4 | 42" | 675 |
| SP-48-4 | 48" | 760 |
| SP-54-4 | 54" | 850 |
| SP-60-4 | 60" | 935 |
| SP-66-4 | 66" | 1020 |
| SP-72-4 | 72" | 1105 |
| SP-78-4 | 78" | 1195 |
| SP-84-4 | 84" | 1280 |
| SP-90-4 | 90" | 1370 |



| MODEL | LENGTH | WEIGHT (LBS.) |
|----------|--------|---------------|
| SP-96-4 | 96" | 1455 |
| SP-102-4 | 102" | 1540 |
| SP-108-4 | 108" | 1630 |
| SP-120-4 | 120" | 1800 |
| SP-132-4 | 132" | 1975 |
| SP-144-4 | 144" | 2150 |
| SP-156-4 | 156" | 2320 |
| SP-168-4 | 168" | 2495 |
| SP-180-4 | 180" | 2670 |
| SP-192-4 | 192" | 2850 |
| SP-204-4 | 204" | 3015 |
| SP-216-4 | 216" | 3535 |
| SP-228-4 | 228" | 3185 |
| SP-240-4 | 240" | 3365 |

Spreader Sets / 8" Sch. 80 / 4-Pipe "I"

Rigging

3/8" X 6' Wire Rope Sling with (4) - 2 Ton Crosby Shackles

3/8" X 8' Wire Rope Sling with (4) - 2 Ton Crosby Shackles

5/8" X 8' Wire Rope Sling with (4) - 13.5 Ton Crosby Shackles

5/8" X 10' Wire Rope Sling with (4) - 13.5 Ton Crosby Shackles

5/8" X 15' Wire Rope Sling with (4) - 13.5 Ton Crosby Shackles



*** All rigging is certified and tagged with size, length, max load, serial number, and date of load test ***

Size A Trench Shield

Soil, Classification, Calculating Depth Ratings, and Sizing a Shield



Determine Depth of Cut

- Slope must start 18 in. or 1-1/2 ft. below the top of the Shield

Determine Soil Conditions

- (See Depth Rating Chart)
 - Type A (25#)
 - Type B (45#)
 - Type C-60 (60#)
 - Type C-80 (80#)
 - Hydrostatic

Determine Width of Trench Shield

- Shield width determined by Outside Diameter (OD) of the pipe or the OD of the excavator bucket.
- Allow 6 in. of clearance on each side of pipe bell.
- Shield should be a minimum of 12 in. wider than the excavator bucket OD.

Determine Length of Trench Shield

- Inside length clearance of pipe is approximately 2 ft. less than the overall length of the shield.
- Shield must be 2 to 4 ft. longer than the pipe.

Determine Machine Lift Capacity

- Lift capacity is 1.5 times the shield weight at 20 ft. radius at grade.

Determine Bucket Width

- Inside shield: 12 in. less than shield

CALCULATING DEPT RATINGS:

PSF ratings and depths are based on temporary loading.

Lateral Pressure Per Foot of Depth:

- Type "A" Soil = 25 lbs.
- Type "B" Soil = 45 lbs.
- Type "C-60" Soil = 60 lbs.
- Type "C-80" Soil = 80 lbs.

Depth Rating Using Shield Capacity (e.g. 1200 lbs.):

- $1200 / 25 = 48$ ft.
- $1200 / 45 = 27$ ft.
- $1200 / 60 = 20$ ft.
- $1200 / 80 = 15$ ft.

Soil types

Type "A" (No Soil Is Type "A" If):

- It is fissured
- It is subject to vibration
- It has been previously disturbed
- It is part of a sloped, layered system, which dips into the excavation on a slope of four horizontal to one vertical [4H:1V] or greater
- It is subject to other factors requiring Classification as less stable

Type "B" Soil:

- Cohesive soil with unconfined compressive strength greater than 0.5 tons per square foot (tsf.), but less than 1.5 tsf.
- Granular cohesion-less soils, e.g., gravel, silt, silt loam, sandy loam
- Type "A" fissured or subject to vibration
- Unstable dry rock
- It is part of a sloped, layered system, which dips into the excavation on a slope less steep than 4H:1V, but only if the material would otherwise be classified as Type "B"

Type "C" Soil:

- Cohesive/non-cohesive soils with unconfined compressive strength of 0.5 tsf or less
- Granular soils including gravel, sand, and loamy sand
- Submerged soil or soil from which water is freely seeping
- Submerged rock that is not stable
- Sloped, layered system which slopes into an excavation at an angle 4H:1V, or steeper

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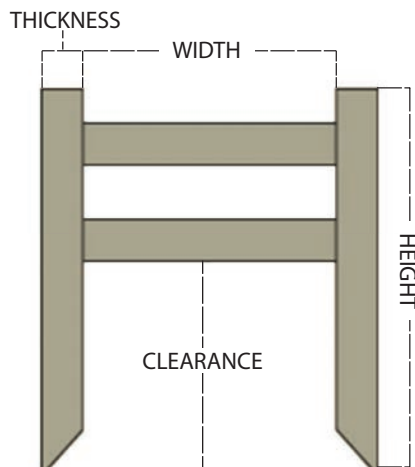
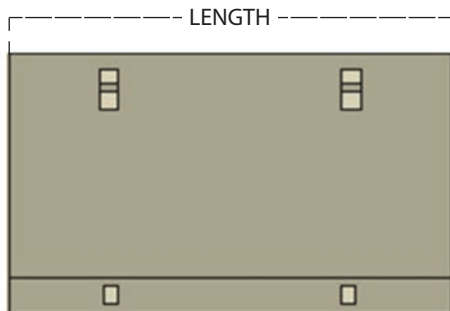
XLD

4" Thick Steel Double Wall Trench Shields

Used with medium crawler excavators in trenches where weight and space are crucial.



| MODEL | WEIGHT (LBS.) | PIPE CLEARANCE | SOIL TYPE (C-60) | SHIELD CAP (PSF) |
|----------|---------------|----------------|------------------|------------------|
| 48 XLD | 2,520 | 22" | 46' | 2,760 |
| 410 XLD | 2,850 | 22" | 46' | 2,760 |
| 412 XLD | 3,380 | 22" | 46' | 2,760 |
| 414 XLD | 3740 | 22" | 34' | 2,040 |
| 416 XLD | 4130 | 22" | 25' | 1,500 |
| 420 XLD | 4970 | 22" | 20' | 1,200 |
| | | | | |
| 88 XLD | 4,380 | 64" | 46' | 2,760 |
| 810 XLD | 5,090 | 64" | 44' | 2,640 |
| 812 XLD | 5,800 | 64" | 34' | 2,040 |
| 814 XLD | 6,580 | 64" | 29' | 1,740 |
| 816 XLD | 7,270 | 64" | 26' | 1,560 |
| 820 XLD | 8,920 | 64" | 22' | 1,320 |
| 1012 XLD | 7,000 | 84" | 33' | 1,980 |
| 1014 XLD | 8,025 | 84" | 22' | 1,320 |



Features

- ◆ Reinforced top rails
- ◆ Adjustable & stackable
- ◆ Thru-wall lifting lugs
- ◆ Four-point lifting system
- ◆ Thru-wall collars
- ◆ Triple vertical tube collar post design
- ◆ Pinned spreader connections
- ◆ Strongest knife edge in industry
- ◆ Professional Engineer design & depth certification
- ◆ Plug welding on double wall shields
- ◆ High strength mill certified steel

Options

- ◆ Pulling lugs
- ◆ Foam filled
- ◆ Pulling blocks
- ◆ Mud plate
- ◆ Corner brackets
- ◆ Custom spreader location
- ◆ Custom paint
- ◆ Stacking pockets
- ◆ T-connection cut-outs

Spreader options

- ◆ 4-Pipe Independent Set
- ◆ 5-Pipe Independent Set
- ◆ 6" Schedule 80
- ◆ 8" Schedule 80 (Standard)

HT6

6" Thick Steel Double Wall Trench Shields

Combines depth capability with lightweight narrow sidewalls, making the most versatile steel shield available. They are designed for medium range excavators.



HT6

| MODEL (HT. x LENGTH) | WEIGHT (LBS.) | PIPE CLEARANCE | SOIL TYPE (C-60) | SHIELD CAP (PSF) |
|-------------------------|------------------|----------------|---------------------|---------------------|
| 4'X20' HT6 | 6,370 | 22" | 24' | 1,440 |
| 4'X24' HT6 | 7,510 | 22" | 19' | 1,140 |
| 8'X20' HT6 | 10,410 | 64" | 26' | 1,560 |
| 8'X24' HT6 | 12,290 | 64" | 19' | 1,140 |
| 10'X16' HT6 | 10,380 | 84" | 28' | 1,680 |
| 10'X20' HT6 | 12,900 | 84" | 24' | 1,440 |
| 10'X24' HT6 | 15,890 | 84" | 20' | 1,200 |

HT8

8" Thick Steel Double Wall Trench Shields

Designed for deeper, more demanding work, while minimizing sidewall deflection and providing extensive shield durability.

HT8

| MODEL (HT. x LENGTH) | WEIGHT (LBS.) | PIPE CLEARANCE | SOIL TYPE (C-60) | SHIELD CAP (PSF) |
|-------------------------|------------------|----------------|---------------------|---------------------|
| 8'X20' HT8 | 10,960 | 64" | 35' | 2,100 |
| 8'X22' HT8 | 12,320 | 64" | 26' | 1,560 |
| 8'X24' HT8 | 13,420 | 64" | 25' | 1,500 |
| 8'X30' HTHD8 | 22,400 | 64" | 25' | 1,500 |
| 10'X20' HT8 | 14,740 | 84" | 32' | 1,920 |
| 10'X24' HT8 | 16,270 | 84" | 28' | 1,680 |
| 10'X30' HT8 | 23,400 | 84" | 20' | 1,200 |

MHXLDW MANHOLE SHIELDS

Designed to be used in two, three, or four-sided configurations, with an independent spreader system. Can also be used with the 6" schedule 80 spreader.

Features

- ◆ Reinforced top rails
- ◆ Stackable
- ◆ Thru-wall lifting lugs
- ◆ Pinned spreader connections
- ◆ Strongest knife edge in the industry
- ◆ Plug welding on double wall shields
- ◆ High strength mill-certified steel

| MODEL (Height x Length) | WEIGHT (LBS.) | PIPE CLEARANCE | SOIL TYPE (C-60) | SHIELD CAPACITY |
|----------------------------|------------------|-------------------|---------------------|--------------------|
| 8'x 8' MHXLDW | 5,170 | 52" | 22' | 1,320 |
| 8'x 10' MHXLDW | 5,840 | 52" | 22' | 1,320 |
| 8'x 12' MHXLDW | 6,860 | 52" | 22' | 1,320 |
| 8'x 14' MHXLDW | 7,570 | 52" | 22' | 1,320 |



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4 in. Steel Double Wall Trench Shield

Uses:

The XLD 4 in. double wall steel shield is the most popular shield in the Efficiency line. They are designed for use with medium crawler excavators in trenches where weight and space are critical.

Features:

- Reinforced top rails.
- Adjustable and stackable.
- Thru-wall lifting lugs.
- Four-point lifting system.
- Thru-wall collars.
- Triple vertical tube collar post design.
- Pinned spreader connections.
- Strongest knife edge in the industry.
- Plug welding on double wall shields.
- High strength mill certified steel.
- Professional Engineer design and depth certification.

Options:

- Pushing blocks.
- Pulling lugs.
- Foam filler.
- Mud plate.
- Corner brackets.
- Custom spreader location.
- Custom paint.
- Stacking Pockets.
- T-connection cut-outs.

Spreader Options:

- 8" schedule 80 (standard).
- 6" schedule 80.
- 4-pipe independent set.
- 5-pipe independent set.
- Custom collar sizes available.



XLD Sidewalls 4 in. Steel Double Wall Trench Shield

| Model (Ht. x Lg.) | Weight (Lbs.) | Pipe Clearance “C” (In.) | Shield Capacity (PSF) | Depth of Cut (Ft.) | | Soil Type |
|----------------------|------------------|-----------------------------|--------------------------|--------------------|------|-----------|
| | | | | B | C-60 | C-80 |
| 48 XLD | 2,520 | 22 | 2,760 | 61 | 46 | 34 |
| 410 XLD | 2,850 | 22 | 2,760 | 61 | 46 | 34 |
| 412 XLD | 3,380 | 22 | 2,760 | 61 | 46 | 34 |
| 414 XLD | 3,740 | 22 | 2,040 | 45 | 34 | 25 |
| 416 XLD | 4,130 | 22 | 1,500 | 33 | 25 | 19 |
| 420 XLD | 4,970 | 22 | 1,200 | 27 | 20 | 15 |
| 424 XLD | 6,130 | 22 | 840 | 19 | 14 | 10 |
| | | | | | | |
| 68 XLD | 3,430 | 41 | 2,760 | 61 | 46 | 34 |
| 610 XLD | 4,120 | 41 | 2,760 | 61 | 46 | 34 |
| 612 XLD | 4,790 | 41 | 2,460 | 55 | 41 | 31 |
| 614 XLD | 5,380 | 41 | 1,920 | 43 | 32 | 24 |
| 616 XLD | 5,970 | 41 | 1,440 | 32 | 24 | 18 |
| 618 XLD | 6,690 | 41 | 1,260 | 28 | 21 | 16 |
| 620 XLD | 7,220 | 41 | 1,380 | 31 | 23 | 17 |
| 622 XLD | 8,100 | 41 | 1,024 | 23 | 17 | 13 |
| 624 XLD | 8,680 | 41 | 900 | 20 | 15 | 11 |
| | | | | | | |
| 88 XLD | 4,380 | 60 | 2,760 | 61 | 46 | 34 |
| 810 XLD | 5,090 | 60 | 2,640 | 59 | 44 | 33 |
| 812 XLD | 5,800 | 60 | 2,040 | 45 | 34 | 25 |
| 814 XLD | 6,580 | 60 | 1,740 | 39 | 29 | 22 |
| 816 XLD | 7,270 | 60 | 1,560 | 35 | 26 | 20 |
| 818 XLD | 8,250 | 60 | 1,380 | 31 | 23 | 17 |
| 820 XLD | 8,920 | 60 | 1,320 | 29 | 22 | 16 |
| 822 XLD | 9,830 | 60 | 900 | 20 | 15 | 11 |
| 824 XLD | 11,420 | 60 | 840 | 19 | 14 | 10 |
| | | | | | | |
| 108 XLD | 5,220 | 69 | 2,760 | 61 | 46 | 34 |
| 1010 XLD | 6,020 | 69 | 2,640 | 59 | 44 | 33 |
| 1012 XLD | 7,000 | 69 | 1,980 | 44 | 33 | 25 |
| 1014 XLD | 7,940 | 69 | 1,320 | 29 | 22 | 16 |
| 1016 XLD | 9,040 | 69 | 1,320 | 29 | 22 | 16 |
| 1020 XLD | 10,890 | 69 | 960 | 21 | 16 | 12 |
| 1024 XLD | 12,910 | 69 | 900 | 20 | 15 | 11 |

HT6

6 In. Hi-Tensile Steel Double Wall Trench Shield

Uses:

The HT6 is the most versatile steel shield available. It combines depth capability with lightweight narrow sidewalls. Designed for medium range excavators.

Features:

- Reinforced top rails.
- Double tube top rails.
- Adjustable and stackable.
- Thru-wall lifting lugs.
- Four-point lifting system.
- Thru-wall collars.
- Triple vertical tube collar post design.
- Pinned spreader connections.
- Strongest knife edge in the industry.
- Plug welding on double wall shields.
- High strength mill certified steel.
- Professional Engineer design and depth certification.

Options:

- Pushing blocks.
- Pulling lugs.
- Foam filler.
- Mud plate.
- Corner brackets.
- Custom spreader location.
- Custom paint.
- Stacking Pockets.
- T-connection cut-outs.

Spreader Options:

- 8" schedule 80 (standard).
- 3-pipe and mud plate set.
- 4-pipe independent set.
- 4-pipe connected set.
- 5-pipe independent set.
- 5-pipe connected set.



HT6 Sidewalls 6 in. Steel Double Wall Trench Shield

| Model (Ht. x Lg.) | Weight (Lbs.) | Pipe Clearance "C" (In.) | Shield Capacity (PSF) | Depth of Cut (Ft.) Soil Type | | |
|----------------------|------------------|-----------------------------|--------------------------|------------------------------|------|------|
| | | | | B | C-60 | C-80 |
| 412 HT6 | 4,090 | 22 | 2,100 | 47 | 35 | 26 |
| 416 HT6 | 5,310 | 22 | 1,860 | 41 | 31 | 23 |
| 418 HT6 | 5,890 | 22 | 1,680 | 37 | 28 | 21 |
| 420 HT6 | 6,370 | 22 | 1,440 | 32 | 24 | 18 |
| 424 HT6 | 7,510 | 22 | 1,140 | 25 | 19 | 14 |
| 427 HT6 | 8,350 | 22 | 780 | 17 | 13 | 10 |
| | | | | | | |
| 616 HT6 | 7,000 | 41 | 2,340 | 52 | 39 | 30 |
| 618 HT6 | 7,680 | 41 | 1,680 | 37 | 28 | 21 |
| 620 HT6 | 8,330 | 41 | 1,440 | 32 | 24 | 18 |
| 622 HT6 | 9,130 | 41 | 1,200 | 27 | 20 | 15 |
| 624 HT6 | 10,210 | 41 | 1,140 | 25 | 19 | 14 |
| 626 HT6 | 10,890 | 41 | 900 | 20 | 15 | 11 |
| 627 HT6 | 11,140 | 41 | 900 | 20 | 15 | 11 |
| | | | | | | |
| 88 HT6 | 4,860 | 64 | 2,880 | 64 | 48 | 36 |
| 812 HT6 | 6,800 | 64 | 2,280 | 50 | 38 | 28 |
| 814 HT6 | 7,580 | 64 | 2,100 | 47 | 35 | 26 |
| 816 HT6 | 8,440 | 64 | 1,980 | 44 | 33 | 25 |
| 818 HT6 | 9,350 | 64 | 1,860 | 41 | 31 | 23 |
| 820 HT6 | 10,410 | 64 | 1,560 | 34 | 26 | 19 |
| 822 HT6 | 11,230 | 64 | 1,200 | 27 | 20 | 15 |
| 824 HT6 | 12,290 | 64 | 1,140 | 25 | 19 | 14 |
| 826 HT6 | 13,110 | 64 | 960 | 21 | 16 | 12 |
| 827 HT6 | 13,240 | 64 | 780 | 17 | 13 | 10 |
| | | | | | | |
| 1012 HT6 | 8,460 | 85 | 2,400 | 53 | 40 | 30 |
| 1016 HT6 | 10,380 | 85 | 1,680 | 37 | 28 | 21 |
| 1018 HT6 | 11,560 | 85 | 1,560 | 34 | 26 | 19 |
| 1020 HT6 | 12,900 | 85 | 1,440 | 32 | 24 | 18 |
| 1022 HT6 | 14,220 | 85 | 1,200 | 27 | 20 | 15 |
| 1024 HT6 | 15,890 | 85 | 1,200 | 27 | 20 | 15 |
| 1027 HT6 | 17,630 | 85 | 960 | 21 | 16 | 12 |

HT8

8 In. Hi-Tensile Steel Double Wall Trench Shield

Uses:

The HT8 is an excellent choice for deeper, more demanding work. The 8 in. double wall construction minimizes sidewall deflection and provides extended shield durability.

Features:

- Reinforced top rails.
- Double tube top rails.
- Adjustable and stackable.
- Thru-wall lifting lugs.
- Four-point lifting system.
- Thru-wall collars.
- Triple vertical tube collar post design.
- Pinned spreader connections.
- Strongest knife edge in the industry.
- Plug welding on double wall shields.
- High strength mill certified steel.
- Professional Engineer design and depth certification.

Options:

- Pushing blocks.
- Pulling lugs.
- Foam filler.
- Mud plate.
- Corner brackets.
- Custom spreader location.
- Custom paint.
- Stacking Pockets.
- T-connection cut-outs.

Spreader Options:

- 8" schedule 80 (standard).
- 3-pipe and mud plate set.
- 4-pipe independent set.
- 4-pipe connected set.
- 5-pipe independent set.
- 5-pipe connected set.



HT8 Sidewalls 8 in. Steel Double Wall Trench Shield

| Model (Ht. x Lg.) | Weight (Lbs.) | Pipe Clearance "C" (In.) | Shield Capacity (PSF) | Depth of Cut (Ft.) Soil Type | | |
|----------------------|------------------|-----------------------------|--------------------------|------------------------------|------|------|
| | | | | B | C-60 | C-80 |
| 416 HT8 | 6,150 | 22 | 2,580 | 57 | 43 | 32 |
| 420 HT8 | 7,120 | 22 | 1,800 | 40 | 30 | 22 |
| 424 HT8 | 8,360 | 22 | 1,260 | 28 | 21 | 16 |
| 427 HT8 | 9,280 | 22 | 1,020 | 23 | 17 | 13 |
| 430 HT8 | 10,080 | 22 | 840 | 10 | 14 | 10 |
| 616 HT8 | 7,930 | 41 | 2,640 | 59 | 44 | 33 |
| 620 HT8 | 9,210 | 41 | 1,800 | 40 | 30 | 22 |
| 624 HT8 | 11,080 | 41 | 1,260 | 28 | 21 | 16 |
| 627 HT8 | 12,330 | 41 | 1,020 | 23 | 17 | 13 |
| 630 HT8 | 13,560 | 41 | 1,020 | 23 | 17 | 13 |
| 814 HT8 | 8,570 | 64 | 2,520 | 56 | 42 | 31 |
| 816 HT8 | 9,150 | 64 | 2,580 | 57 | 43 | 32 |
| 820 HT8 | 10,960 | 64 | 2,100 | 46 | 35 | 26 |
| 822 HT8 | 12,320 | 64 | 1,560 | 19 | 26 | 19 |
| 824 HT8 | 13,420 | 64 | 1,500 | 33 | 25 | 19 |
| 827 HT8 | 14,570 | 64 | 1,140 | 25 | 19 | 14 |
| 830 HT8 | 15,930 | 64 | 840 | 19 | 14 | 10 |
| 1016 HT8 | 12,480 | 85 | 2,220 | 49 | 37 | 28 |
| 1020 HT8 | 14,740 | 85 | 1,920 | 42 | 32 | 24 |
| 1024 HT8 | 16,270 | 85 | 1,680 | 37 | 28 | 21 |
| 1027 HT8 | 18,780 | 85 | 1,200 | 27 | 20 | 15 |
| 1030 HT8 | 20,570 | 85 | 1,020 | 23 | 17 | 13 |

HDHT8

8 In. Heavy Duty Hi-Tensile Steel Double Wall Shield

Uses:

This 8 in. double wall trench shield is available with panels up to 12 ft. high and 36 ft. long. The HDHT8 offers maximum depth ratings to handle the most demanding jobs with larger excavators.

Features:

- Reinforced top rails.
- Double tube top rails.
- Adjustable and stackable.
- Thru-wall lifting lugs.
- Four-point lifting system.
- Thru-wall collars.
- Triple vertical tube collar post design.
- Pinned spreader connections.
- Strongest knife edge in the industry.
- Plug welding on double wall shields.
- High strength mill certified steel.
- Professional Engineer design and depth certification.



Options:

- Pushing blocks.
- Pulling lugs.
- Foam filler.
- Mud plate.
- Corner brackets.
- Custom spreader location.
- Custom paint.
- Stacking Pockets.
- T-connection cut-outs.

Spreader Options:

- 8" schedule 80 (standard).
- 10" schedule 120.
- 3-pipe and mud plate set.
- 4-pipe independent set.
- 4-pipe connected set.
- 5-pipe independent set.
- 5-pipe connected set.

HDHT8 Sidewalls 8 in. Heavy Duty Steel Double Wall Trench Shield

| Model (Ht. x Lg.) | Weight (Lbs.) | Pipe Clearance "C" (In.) | Shield Capacity (PSF) | Depth of Cut (Ft.) Soil Type | | |
|----------------------|------------------|-----------------------------|--------------------------|------------------------------|------|------|
| | | | | B | C-60 | C-80 |
| 616 HDHT8-58 | 7,500 | 41 | 3,480 | 77 | 58 | 43 |
| 620 HDHT8-40 | 9,700 | 41 | 2,400 | 53 | 40 | 30 |
| 624 HDHT8-30 | 12,340 | 41 | 1,800 | 40 | 30 | 22 |
| 626 HDHT8-27 | 14,300 | 41 | 1,620 | 36 | 27 | 20 |
| 627 HDHT8-25 | 14,870 | 41 | 1,500 | 33 | 25 | 19 |
| 628 HDHT8-24 | 14,975 | 41 | 1,440 | 32 | 24 | 18 |
| 630 HDHT8-20 | 16,460 | 41 | 1,200 | 27 | 20 | 15 |
| | | | | | | |
| 816 HDHT8-58 | 9,770 | 64 | 3,480 | 77 | 58 | 43 |
| 820 HDHT8-40 | 12,300 | 64 | 2,400 | 53 | 40 | 30 |
| 824 HDHT8-30 | 14,500 | 64 | 1,800 | 40 | 30 | 22 |
| 826 HDHT8-30 | 20,100 | 64 | 1,800 | 40 | 30 | 22 |
| 827 HDHT8-27 | 18,215 | 64 | 1,620 | 36 | 27 | 20 |
| 828 HDHT8-24 | 21,300 | 64 | 1,440 | 32 | 24 | 18 |
| 830 HDHT8-20 | 19,995 | 64 | 1,200 | 27 | 20 | 15 |
| | | | | | | |
| 1016HDHT8-60 | 13,790 | 85 | 3,600 | 80 | 60 | 45 |
| 1020HDHT8-41 | 16,920 | 85 | 2,460 | 55 | 41 | 31 |
| 1024HDHT8-31 | 17,490 | 85 | 1,860 | 41 | 31 | 23 |
| 1026HDHT8-28 | 19,560 | 85 | 1,620 | 36 | 27 | 20 |
| 1027HDHT8-25 | 20,110 | 85 | 1,500 | 33 | 25 | 19 |
| 1028HDHT8-24 | 22,310 | 85 | 1,440 | 32 | 24 | 18 |
| 1030HDHT8-20 | 23,400 | 85 | 1,200 | 27 | 20 | 15 |

Manhole Shields

4 in. Single and Double Wall Manhole Shields

Manhole Shield w/o Corner End Plates 4 in. Single and Double Wall Shield

| Model (Ht. x Lg.) | Weight (Lbs.) | Pipe Clearance "C" (In.) | Shield Capacity (PSF) | Depth of Cut (Ft.) | | Soil Type |
|--------------------------|------------------|-----------------------------|--------------------------|--------------------|------|-----------|
| | | | | B | C-60 | C-80 |
| <i>4 in. Single Wall</i> | | | | | | |
| 88 MHXLS | 2,500 | 52 | 840 | 19 | 14 | 10 |
| 810 MHXLS | 2,950 | 52 | 660 | 15 | 11 | 8 |
| 812 MHXLS | 3,580 | 52 | 600 | 13 | 10 | 7 |
| 814 MHXLS | 4,090 | 52 | 540 | 12 | 9 | 7 |
| 816 MHXLS | 4,520 | 52 | 480 | 11 | 8 | 6 |
| <i>4 in. Double Wall</i> | | | | | | |
| 88 MHXLD | 3,970 | 52 | 2,220 | 45 | 37 | 28 |
| 810 MHXLD | 4,640 | 52 | 1,980 | 41 | 33 | 25 |
| 812 MHXLD | 5,660 | 52 | 1,680 | 35 | 28 | 21 |



Without Corner Protection

Manhole Shield w/ Corner End Plates

| Model (Ht. x Lg.) | Weight (Lbs.) | Pipe Clearance "C" (In.) | Shield Capacity (PSF) | Depth of Cut (Ft.) | | Soil Type |
|--------------------------|------------------|-----------------------------|--------------------------|--------------------|------|-----------|
| | | | | B | C-60 | C-80 |
| <i>4 in. Single Wall</i> | | | | | | |
| 88 MHXLS-CEP | 3,600 | 52 | 840 | 19 | 14 | 10 |
| 810 MHXLS-CEP | 4,050 | 52 | 660 | 15 | 11 | 8 |
| 812 MHXLS-CEP | 4,680 | 52 | 600 | 13 | 10 | 7 |
| 814 MHXLS-CEP | 5,190 | 52 | 540 | 12 | 9 | 7 |
| 816 MHXLS-CEP | 5,620 | 52 | 480 | 11 | 8 | 6 |
| <i>4 in. Double Wall</i> | | | | | | |
| 88 MHXLD-CEP | 5,070 | 52 | 2,220 | 45 | 37 | 28 |
| 810 MHXLD-CEP | 5,740 | 52 | 1,980 | 41 | 33 | 25 |
| 812 MHXLD-CEP | 6,760 | 52 | 1,680 | 35 | 28 | 21 |
| 814 MHXLD-CEP | 7,470 | 52 | 1,440 | 29 | 24 | 18 |
| 816 MHXLD-CEP | 8,150 | 52 | 1,320 | 27 | 22 | 16 |



Spreaders attach to shield

With Corner End Plate

Manhole Shield w/ Wrap Around Corner End Plates

| Model (Ht. x Lg.) | Weight (Lbs.) | Pipe Clearance "C" (In.) | Shield Capacity (PSF) | Depth of Cut (Ft.) | | Soil Type |
|--------------------------|------------------|-----------------------------|--------------------------|--------------------|------|-----------|
| | | | | B | C-60 | C-80 |
| <i>4 in. Single Wall</i> | | | | | | |
| 88 MHXLSW | 4,900 | 52 | 840 | 19 | 14 | 10 |
| 810 MHXLSW | 5,370 | 52 | 660 | 15 | 11 | 8 |
| 812 MHXLSW | 5,940 | 52 | 600 | 13 | 10 | 7 |
| 814 MHXLSW | 6,410 | 52 | 540 | 12 | 9 | 7 |
| 816 MHXLSW | 6,980 | 52 | 480 | 11 | 8 | 6 |
| <i>4 in. Double Wall</i> | | | | | | |
| 88 MHXLDW | 5,130 | 52 | 1,320 | 29 | 22 | 16 |
| 810 MHXLDW | 5,840 | 52 | 1,320 | 29 | 22 | 16 |
| 812 MHXLDW | 6,430 | 52 | 1,320 | 29 | 22 | 16 |
| 814 MHXLDW | 7,300 | 52 | 1,320 | 29 | 22 | 16 |
| 816 MHXLDW | 7,990 | 52 | 1,320 | 29 | 22 | 16 |



Spreaders attach to End Plates

With Wrap Around Corner End