STANDARD LOW PROFILE FRAMES DEVELOPED FOR GENERIC STATEWIDE PANELS OR OTHER HPL PANELS MEASURING 48" x 24" x ½".
DESCRIPTION
This is the standard single panel low profile frame developed by the Northern Service Center for HPL panels measuring $47\frac{1}{2}'' \times 24'' \times \frac{1}{2}'$, or $24'' \times 48'' \times \frac{1}{2}'$. The smaller size leaves a wider margin between the edges of the panel and the metal legs which makes installation a little easier. Either panel size will fit in the frames.

INSTALLING THE FRAME
The frames need to be fully assembled prior to installing them in the ground in order to maintain proper distance between the legs and to insure that the LEGS REMAIN PARALLEL. If the backing plate is warped, it will be at best difficult to install the interpretive panel and worst case is to not be able to install the HPL panel at all. The frame legs should be set in concrete in holes 24” deep and 12” in diameter as per the installation drawing. This will insure a strong installation and proper ADA clearances. The frames are constructed of separate pieces for ease of transport. When the frames are fabricated completely welded together they are extremely difficult to handle and ship. Proper stainless fasteners are indicated on the drawings but must be purchased separately. The fabricators do not usually supply fasteners.

INSTALLING THE PANEL
The fasteners for attaching the panels to the backing plates are $\frac{1}{4}-20 \times 5/8$ BH Tork T-27, 18-8 SS. These are little button head stainless steel security screws that are 5/8” long. The metal backing plate is 3/16” thick so that leaves 7/16” of threads to go into the panel. This means that the screw is 1/16” too long. To accommodate this, 2 stainless steel washers should be used on each screw. This will keep the fastener from disrupting the surface of the panel. DO NOT OVERTIGHTEN the fasteners in the panels. This could ruin the entire panel. If the insert is stripped out, it will be difficult or even impossible to replace.
Single Panel Frame Assembly
not to scale, must be assembled prior to installation in ground

1/4 20 x 1 sts flat head machine screw

1/4 20 sts lock nut
DPR Standard
Low Profile Panel Stand
single panel, left leg, 1 rqd.

Cap ends, grind all welds smooth

hole location in 2 x 2 angle stock

section A—A'

2 x 2 angle stock
weld
2 x 4 x 1/8 box tube

24"
21"
3/4"
45°
72"

2 x 2 angle stock
2 x 4 x 1/8 box tube

Powdercoat__________ RAL #
section A—A'

hole location in 2 x 2 angle stock

2 x 2 angle stock
right leg
weld
2 x 4 x 1/8 box tube

Cap ends, grind all welds smooth

24" 21"
3/4" 1 1/2

RAL #

Powdercoat__________
DRILL PATTERN FOR 48" PANEL
1/4-20 helicoil threaded insert pattern for back of interpretive panels that measure 24' x 48"
signframe must be fully assembled prior to installation in ground to assure proper alignment for ease of panel fit.
DESCRIPTION
This is the standard side by side low profile frame developed by the Northern Service Center for HPL panels measuring 47½” x 24” x ½”, or 24” x 48” x ½”. The smaller size leaves a wider margin between the edges of the panel and the metal legs which makes installation a little easier. Either panel size will fit in the frames.

INSTALLING THE FRAME
The frames need to be fully assembled prior to installing them in the ground in order to maintain proper distance between the legs and to insure that the LEGS REMAIN PARALLEL. If the backing plate is warped, it will be at best difficult to install the interpretive panel and worst case is to not be able to install the HPL panel at all. The frame legs should be set in concrete in holes 24” deep and 12” in diameter as per the installation drawing. This will insure a strong installation and proper ADA clearances. The frames are constructed of separate pieces for ease of transport. When the frames are fabricated completely welded together they are extremely difficult to handle and ship. Proper stainless fasteners are indicated on the drawings but must be purchased separately. The fabricators do not usually supply fasteners.

INSTALLING THE PANEL
The fasteners for attaching the panels to the backing plates are 1/4-20 x 5/8 BH Tork T-27, 18-8 SS. These are little button head stainless steel security screws that are 5/8” long. The metal backing plate is 3/16” thick so that leaves 7/16” of threads to go into the panel. This means that the screw is 1/16” too long. To accommodate this, 2 stainless steel washers should be used on each screw. This will keep the fastener from disrupting the surface of the panel. DO NOT OVERTIGHTEN the fasteners in the panels. This could ruin the entire panel. If the insert is stripped out, it will be difficult or even impossible to replace.
Side by Side Frame Assembly

not to scale, must be assembled prior to installation in ground

1/4 20 x 1 sts flat head machine screw

1/4 20 sts lock nut
DPR Standard
Low Profile Panel Stands
double panel side by side

2 x 4 x 1/8 box tube

hole location in 2 x 2 angle stock

2 x 2 angle stock

section A  A"

weld

weld

powdercoat

RAL #

Cap ends, grind all
welds smooth

19

21

3/4

1/2

45

24

6/29/11
Cap ends, grind all welds smooth

section A—A'

hole location in 2 x 2 angle stock

2 x 2 angle stock

weld

2 x 4 x 1/8 box tube

21

19

24"

21"

45"

3/4"

1 1/2

72"

Powdercoat

RAL #
DPR Standard
Low Profile Panel Stands
double panel side by side

- 21"
- 24"
- 21"
- 72"
- 19"
- 2 x 2 angle stock
- 2 x 4 x 1/8 box tube
- section A—A'
- Cap ends, grind all welds smooth
- Powdercoat
- RAL #
Low Profile Panel Stands

double panel side by side

5.16" holes, (outside pattern), countersink for 1/4" flathead screws

3/16" holes, (inside pattern), countersink for 1/4" flathead screws

3/8" mild steel plate

5/16" holes, (inside pattern), countersink for 1/4" flathead screws

3/8" mild steel plate

NO countersink

DPR Standard

DESIGNED

DRAWN

CHECKED

REVISIONS

DATE

ACQUISITION

AND

DEVELOPMENT

DIVISION

One Capitol Mall
Suite 500
Sacramento, CA.
95814-3229

DESIGNED

DRAWING NO.
sheet no.

Powdercoat ___________

RAL #

6/29/11
DRILL PATTERN FOR 48" PANEL
1/4-20 helicoil threaded insert pattern for back of interpretive panels that measure 24' x 48"
signframe must be fully assembled prior to installation in ground to assure proper alignment for ease of panel fit

gravel for leveling only, not mandatory

concrete

grade

28

72

24

12"
DESCRIPTION
This is the standard back to back low profile frame developed by the Northern Service Center for HPL panels measuring 47½” x 24” x ½”, or 24” x 48” x ½”. The smaller size leaves a wider margin between the edges of the panel and the metal legs which makes installation a little easier. Either panel size will fit in the frames.

INSTALLING THE FRAME
The frames need to be fully assembled prior to installing them in the ground in order to maintain proper distance between the legs and to insure that the LEGS REMAIN PARALLEL. If the backing plate is warped, it will be at best difficult to install the interpretive panel and worst case is to not be able to install the HPL panel at all. The frame legs should be set in concrete in holes 24” deep and 12” in diameter as per the installation drawing. This will insure a strong installation and proper ADA clearances. The frames are constructed of separate pieces for ease of transport. When the frames are fabricated completely welded together they are extremely difficult to handle and ship. Proper stainless fasteners are indicated on the drawings but must be purchased separately. The fabricators do not usually supply fasteners.

INSTALLING THE PANEL
The fasteners for attaching the panels to the backing plates are 1/4-20 x 5/8 BH Tork T-27, 18-8 SS.. These are little button head stainless steel security screws that are 5/8” long. The metal backing plate is 3/16” thick so that leaves 7/16” of threads to go into the panel. This means that the screw is 1/16” too long. To accommodate this, 2 stainless steel washers should be used on each screw. This will keep the fastener from disrupting the surface of the panel. DO NOT OVERTIGHTEN the fasteners in the panels. This could ruin the entire panel. If the insert is stripped out, it will be difficult or even impossible to replace.
Not to scale, must be assembled prior to installation in ground.
top view, drill pattern for angle stock, 5/16 holes, typical

section A—A'

right leg

weld

2 x 4 x 1/8 box tube

2 x 2 angle stock

Powdercoat__________

RAL #

DPR Standard
Low Profile Double Panel Stand
back to back, leg, 2 rqd.
DPR Standard
Low Profile Double Panel Stand
back panel, 2 rqd.

5/16" holes, (outside pattern), countersink for 1/4" flathead screws
3/16" mild steel plate
3/8" holes, (inside pattern), NO countersink

18"
cutout this area
13"

21" 19" 17"
4" 4"

36"
46 1/4"
48"

7/8" 1"

Powdercoat RAL #
DRILL PATTERN FOR 48" PANEL
1/4-20 helicoil threaded insert pattern for back of interpretive panels that measure 24' x 48"
DPR Standard
Low Profile Panel Stands
installation diagram

signframe must be fully assembled prior to installation in ground to assure proper alignment for ease of panel fit
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<th>PMS Code</th>
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colors are closest PMS match to RAL powdercoat colors