

Driven by Service. Defined by Quality.

Direct Ply Hand Set Modular Forming System



CONTENTS

STANDARD PLYWOOD	4
PANELS	5
FILLERS	6
STEEL FILLERS	8
FILLER ANGLES	9
OUTSIDE CORNERS	10
INSIDE CORNERS	11
HINGED OUTSIDE CORNERS	12
HINGED INSIDE CORNERS	13
CONNECTING HARDWARE	14
ONE PIECE WALER CLAMPS	15
WALER HARDWARE	15
STRONGBACK TIES	16
J STRONGBACK HOOKS	16
GANG WALER HARDWARE	17
HANDSET FORMING ACCESSORIES	18
SCAFFOLD BRACKETS	18
HEAVY DUTY LOOP TIES	19
STANDARD X FLAT TIES	20
ADJUSTABLE SHEAR WALL BRACKETS	21
DOUBLE DUTY LIFT BRACKETS	21
CAEETY EVEC	22



Houston, TX • Rialto, CA
Phoenix, AZ • Willamsport, MD
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DISCLAIMERS

DSS recommends that all concrete forming professionals follow all applicable industry standards and safe practices established by the American Concrete Institute (ACI), American National Standards Institute (ANSI), the Scaffolding, Shoring and Forming Institute (SSFI), and the Occupational Safety and Health Administration (OSHA).

DSS recommends that all the job layouts be designed by a qualified professional engineer and that all erection and dismantling be performed by qualified personnel.

Always consider the load bearing capabilities of all components in the system and static loads when using this equipment.

Published values are true for components in good condition. DSS recommends inspecting each component before use.

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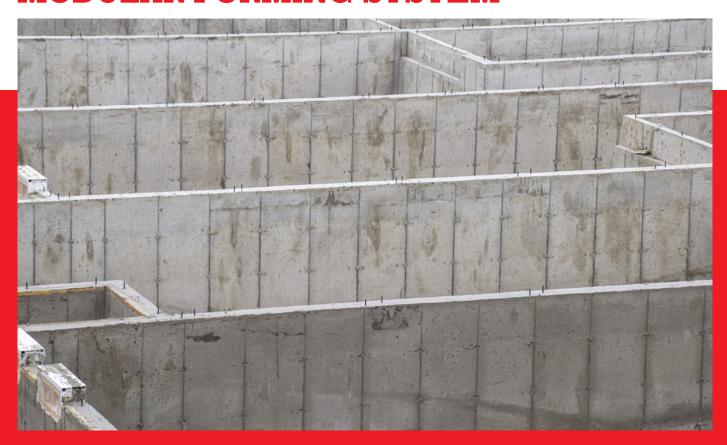
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DIRECT PLY HAND SET MODULAR FORMING SYSTEM



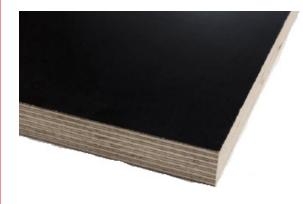
DSS Direct Ply is a pre-engineered, factory built, reusable modular forming system with endless application in handset and gang configurations. Direct Ply formwork can be used in residential, commercial, industrial, and heavy highway construction, and because there is no left, right, up, or down to the form itself, structures of almost any shape or size can be accomplished.

Direct Ply comes in standard panel and filler sizes that can easily be combined to create custom dimensions. The system simplifies the forming process, saving time and reducing costs compared to traditional job-built formwork, which requires extensive measuring, cutting and fabrication specific to each project. When using Direct Ply, no matter the application, the same basic components and methods are used time and time again. The only tool required for erection and tear down is a hammer.

Concrete crew performance becomes consistent and predictable with just a few simple hardware attachments to build virtually any size wall or structure. High-quality laminated birch plywood secured to high-strength steel frames will produce an equally high-quality concrete finish, and because the system is engineered, designed, and manufactured with a defined 1,000 PSF capacity, engineers, owners, and contractors can know the Direct Ply system will perform safely and efficiently on every project.

STANDARD PLYWOOD

DIRECT PLY



Facing panels are made from birch plywood for Direct Ply panels and fillers. Birch is an extremely durable and moisture-resistant construction material that is used in a wide variety of applications, such as beams, bridges, industrial, and commercial form construction.

The choice of form face material can significantly impact both the performance of the form itself, as well as the quality of the finished product. We have chosen birch plywood for its unique properties and exceptional performance.

- Birch plywood features a tight grain structure that provides superior strength compared to traditional fir plywood, resists moisture absorption, and maintains structural integrity use after use.
- The multi-ply manufacturing process, using a combination of long and short grain directional veneers, ensures consistent flatness and dimensional stability.
- 220/220 phenolic overlay on both the front and the back of the birch plywood prevents moisture absorption and extends the useful life of the form face.
- To further enhance the water resistance of cut-to-size pieces, the exposed plywood edges are sealed after saw cutting to minimize water penetration.

All formwork should be treated with a suitable form release agent before concrete pours. This good practice will maximize the lifespan of the form face and simplify the cleaning process.

Choosing birch plywood as the form face for our Direct Ply system provides numerous advantages that contribute to both the strength and aesthetic quality of your concrete structures. Superior performance characteristics combined with careful manufacturing and finishing processes make our birch plywood the best possible choice for your projects.

ADDITIONAL INFORMATION

• Size - Long Grain Direction: 2440 x 1220 mm, 2500 x 1250 mm

• Size - Cross Grain Direction: 1220 x 2440 mm, 1250 x 2500 mm

• **Thickness:** 1/2" / 12.5 mm

• **Tolerance:** + / - .3mm

• **Ply:** 10

Film Density: 220 / 220

• Film Color: Black

Surface: Smooth (F/F)

PANELS

DIRECT PLY



Direct Ply Panels are stocked in 3, 4, 5, 6 and 8 foot lengths, and are compatible with steel-ply style forms in the market. They are supplied standard with birch plywood facing. The maximum allowable pour pressure for the Direct Ply system is 1,000 psf.

ADDITIONAL INFORMATION

• Material: High Strength Steel Alloy

• Finish: Powder Coated

• Facing: Stocked with 1/2" thick, 10 ply- 220/220 Birch Plywood



WARNING
Handles are not
to be used as
tie off points.

FWDPS4X24

Part No.	Description	Width	Height	Weight
FWDPS3X24	24" x 3' Panel	24" / 609.6 mm	3′ / 914.4 mm	33.4 lb / 15.2 kg
FWDPS4X24	24" x 4' Panel	24" / 609.6 mm	4′ / 1219.2 mm	43.6 lb / 19.8 kg
FWDPS5X24	24" x 5' Panel	24" / 609.6 mm	5′ / 1524 mm	53.9 lb / 24.5 kg
FWDPS6X24	24" x 6' Panel	24" / 609.6 mm	6′ / 1828.8 mm	67.8 lb / 30.8 kg
FWDPS8X24	24" x 8' Panel	24" / 609.6 mm	8′ / 2438.4 mm	83.8 lb / 38.1 kg

DIRECT PLY



FWDPS4X10



WARNINGHandles are not to be used as tie off points.

Direct Ply Fillers are stocked in even inch increments from 4" to 22" widths and multiple lengths. They are constructed of the same steel and plywood as the full 24" wide panels.

ADDITIONAL INFORMATION

• Material: High Strength Steel Alloy

• Finish: Powder Coated

• Facing: Stocked with 1/2" thick, 10 ply- 220/220 Birch Plywood

Part No.	Description	Width	Height	Weight
FWDPS3X4	4" x 3' Filler	4" / 101.6 mm	3′ / 76.2 mm	13.2 lb / 6 kg
FWDPS3X6	6" x 3' Filler	6" / 152.4 mm	3′ / 76.2 mm	15.2 lb / 6.9 kg
FWDPS3X8	8" x 3' Filler	8" / 203.2 mm	3′ / 76.2 mm	17.2 lb / 7.8 kg
FWDPS3X10	10" x 3' Filler	10" / 254 mm	3′ / 76.2 mm	19.4 lb / 8.8 kg
FWDPS3X12	12" x 3' Filler	12" / 304.8 mm	3′ / 76.2 mm	21.3 lb / 9.7 kg
FWDPS3X14	14" x 3' Filler	14" / 355.6 mm	3′ / 76.2 mm	23.3 lb / 10.6 kg
FWDPS3X16	16" x 3' Filler	16" / 406.4 mm	3′ / 76.2 mm	25.7 lb / 11.7 kg
FWDPS3X18	18" x 3' Filler	18" / 457.2 mm	3′ / 76.2 mm	27.5 lb / 12.5 kg
FWDPS3X20	20" x 3' Filler	20" / 508 mm	3′ / 76.2 mm	29.5 lb / 13.4 kg
FWDPS3X22	22" x 3' Filler	22" / 558.8 mm	3′ / 76.2 mm	31.5 lb / 14.3 kg
FWDPS4X4	4" x 4' Filler	4" / 101.6 mm	4' / 101.6 mm	17.4 lb / 7.9 kg
FWDPS4X6	6" x 4' Filler	6" / 152.4 mm	4' / 101.6 mm	20 lb / 9.1 kg
FWDPS4X8	8" x 4' Filler	8" / 203.2 mm	4' / 101.6 mm	22.4 lb / 10.2 kg
FWDPS4X10	10" x 4' Filler	10" / 254 mm	4' / 101.6 mm	25.3 lb / 11.5 kg
FWDPS4X12	12" x 4' Filler	12" / 304.8 mm	4' / 101.6 mm	27.9 lb / 12.7 kg
FWDPS4X14	14" x 4' Filler	14" / 355.6 mm	4' / 101.6 mm	30.6 lb / 13.9 kg
FWDPS4X16	16" x 4' Filler	16" / 406.4 mm	4' / 101.6 mm	33.4 lb / 15.2 kg
FWDPS4X18	18" x 4' Filler	18" / 457.2 mm	4′ / 101.6 mm	35.9 lb / 16.3 kg
FWDPS4X20	20" x 4' Filler	20" / 508 mm	4' / 101.6 mm	38.3 lb / 17.4 kg
FWDPS4X22	22" x 4' Filler	22" / 558.8 mm	4′ / 101.6 mm	40.9 lb / 18.6 kg
FWDPS5X4	4" x 5' Filler	4" / 101.6 mm	5′ / 127 mm	21.6 lb / 9.8 kg
FWDPS5X6	6" x 5' Filler	6" / 152.4 mm	5′ / 127 mm	24.9 lb / 11.3 kg
FWDPS5X8	8" x 5' Filler	8" / 203.2 mm	5′ / 127 mm	27.9 lb / 12.7 kg
FWDPS5X10	10" x 5' Filler	10" / 254 mm	5′ / 127 mm	31.2 lb / 14.2 kg
FWDPS5X12	12" x 5' Filler	12" / 304.8 mm	5′ / 127 mm	34.5 lb / 15.7 kg
FWDPS5X14	14" x 5' Filler	14" / 355.6 mm	5′ / 127 mm	37.6 lb / 17.1 kg
FWDPS5X16	16" x 5' Filler	16" / 406.4 mm	5′ / 127 mm	41.4 lb / 18.8 kg
FWDPS5X18	18" x 5' Filler	18" / 457.2 mm	5′ / 127 mm	44.4 lb / 20.2 kg
FWDPS5X20	20" x 5' Filler	20" / 508 mm	5′ / 127 mm	47.5 lb / 21.6 kg
FWDPS5X22	22" x 5' Filler	22" / 558.8 mm	5′ / 127 mm	50.6 lb / 23 kg

FILLERS - CONT.

DIRECT PLY

				1
Part No.	Description	Width	Height	Weight
FWDPS6X4	4" x 6' Filler	4" / 101.6 mm	6′ / 152.4 mm	26 lb / 11.8 kg
FWDPS6X6	6" x 6' Filler	6" / 152.4 mm	6′ / 152.4 mm	29.5 lb / 13.4 kg
FWDPS6X8	8" x 6' Filler	8" / 203.2 mm	6′ / 152.4 mm	33.2 lb / 15.1 kg
FWDPS6X10	10" x 6' Filler	10" / 254 mm	6′ / 152.4 mm	37.2 lb / 16.9 kg
FWDPS6X12	12" x 6' Filler	12" / 304.8 mm	6′ / 152.4 mm	40.9 lb / 18.6 kg
FWDPS6X14	14" x 6' Filler	14" / 355.6 mm	6′ / 152.4 mm	44.9 lb / 20.4 kg
FWDPS6X16	16" x 6' Filler	16" / 406.4 mm	6′ / 152.4 mm	54.1 lb / 24.6 kg
FWDPS6X18	18" x 6' Filler	18" / 457.2 mm	6′ / 152.4 mm	55.7 lb / 25.3 kg
FWDPS6X20	20" x 6' Filler	20" / 508 mm	6′ / 152.4 mm	59.6 lb / 27.1 kg
FWDPS6X22	22" x 6' Filler	22" / 558.8 mm	6′ / 152.4 mm	63.6 lb / 28.9 kg
FWDPS8X4	4" x 8' Filler	4" / 101.6 mm	8′ / 203.2 mm	34.3 lb / 15.6 kg
FWDPS8X6	6" x 8' Filler	6" / 152.4 mm	8′ / 203.2 mm	39.2 lb / 17.8 kg
FWDPS8X8	8" x 8' Filler	8" / 203.2 mm	8′ / 203.2 mm	44 lb / 20 kg
FWDPS8X10	10" x 8' Filler	10" / 254 mm	8' / 203.2 mm	49.3 lb / 22.4 kg
FWDPS8X12	12" x 8' Filler	12" / 304.8 mm	8′ / 203.2 mm	54.1 lb / 24.6 kg
FWDPS8X14	14" x 8' Filler	14" / 355.6 mm	8′ / 203.2 mm	59.2 lb / 26.9 kg
FWDPS8X16	16" x 8' Filler	16" / 406.4 mm	8' / 203.2 mm	64.5 lb / 29.3 kg
FWDPS8X18	18" x 8' Filler	18" / 457.2 mm	8′ / 203.2 mm	69.3 lb / 31.5 kg
FWDPS8X20	20" x 8' Filler	20" / 508 mm	8′ / 203.2 mm	74.1 lb / 33.7 kg
FWDPS8X22	22" x 8' Filler	22" / 558.8 mm	8′ / 203.2 mm	79 lb / 35.9 kg



FWDPS8X16



WARNING
Handles are not
to be used as
tie off points.

DIRECT PLY

Direct Ply Steel Fillers are formed U-shaped steel available in 1", 1-1/2", and 2" widths and are stocked in 3, 4, 5, 6, and 8 foot lengths. Connection to adjacent forms is accomplished with Long Bolts or Adjustable Long Bolts up to 3" maximum.

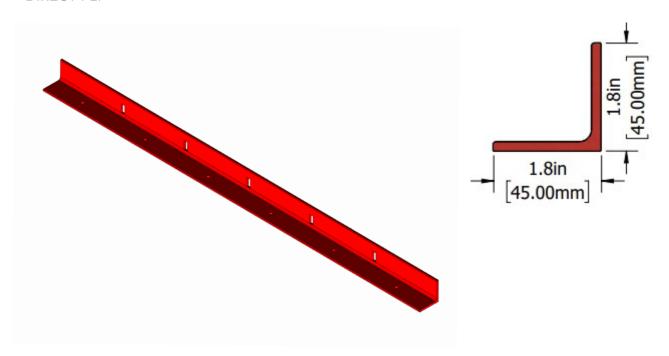
ADDITIONAL INFORMATION

• Material: Steel

	1			
Part No.	Description	Width	Height	Weight
FWDPSF0301	1" x 3' Steel Filler	1" / 25.4 mm	3′ / 914.4mm	7.8 lb / 3.6kg
FWDPSF0401	1" x 4' Steel Filler	1" / 25.4 mm	4′ / 1219.2mm	10.4 lb / 4.7kg
FWDPSF0501	1" x 5' Steel Filler	1" / 25.4 mm	5′ / 1524mm	13 lb / 5.9kg
FWDPSF0601	1" x 6' Steel Filler	1" / 25.4 mm	6′ / 1828.8mm	15.6 lb / 7.1kg
FWDPSF0801	1" x 8' Steel Filler	1" / 25.4 mm	8′ / 2438.4mm	20.8 lb / 9.4kg
FWDPSF0315	1.5" x 3' Steel Filler	1.5" / 38.1 mm	3′ / 914.4mm	8.5 lb / 3.9kg
FWDPSF0415	1.5" x 4' Steel Filler	1.5" / 38.1 mm	4′ / 1219.2mm	11.4 lb / 5.2kg
FWDPSF0515	1.5" x 5' Steel Filler	1.5" / 38.1 mm	5′ / 1524mm	14.2 lb / 6.4kg
FWDPSF0615	1.5" x 6' Steel Filler	1.5" / 38.1 mm	6′ / 1828.8mm	17.1 lb / 7.7kg
FWDPSF0815	1.5" x 8' Steel Filler	1.5" / 38.1 mm	8′ / 2438.4mm	22.8 lb / 10.3kg
FWDPSF0302	2" x 3' Steel Filler	2" / 50.8 mm	3′ / 914.4mm	9 lb / 4.1kg
FWDPSF0402	2" x 4' Steel Filler	2" / 50.8 mm	4′ / 1219.2mm	12 lb / 5.5kg
FWDPSF0502	2" x 5' Steel Filler	2" / 50.8 mm	5′ / 1524mm	15.1 lb / 6.8kg
FWDPSF0602	2" x 6' Steel Filler	2" / 50.8 mm	6′ / 1828.8mm	18 lb / 8.2kg
FWDPSF0802	2" x 8' Steel Filler	2" / 50.8 mm	8′ / 2438.4mm	24.1 lb / 10.9kg

FILLER ANGLES

DIRECT PLY



Direct Ply Filler Angles allow for the construction of job-built fillers using ¾" plywood, attaching to the side rails of adjacent Direct Ply forms. Filler angles are recommended where rebar and pipe penetrations must extend through the face of a form, eliminating damage to standard forms.

ADDITIONAL INFORMATION

• Material: Steel

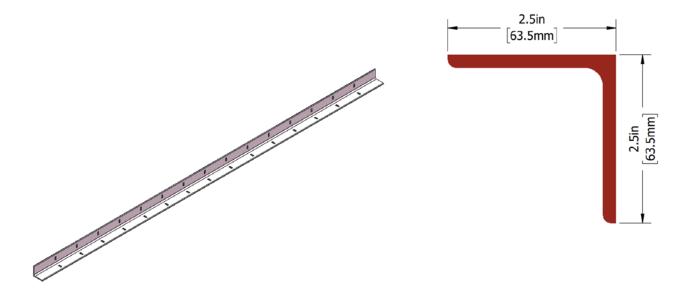
• Finish: Powder Coated

• Maximum recommended job-built filler is 12" wide without additional support

Part No.	Description	Height	Weight
FWDPFA3	3' Filler Angle	3′ / 914.4 mm	5.41 lb / 2.46 kg
FWDPFA4	4' Filler Angle	4′ / 1219.2 mm	7.22 lb / 3.28 kg
FWDPFA5	5' Filler Angle	5′ / 1524 mm	9.02 lb / 4.1 kg
FWDPFA6	6' Filler Angle	6′ / 1828.8 mm	10.82 lb / 4.92 kg
FWDPFA8	8' Filler Angle	8′ / 2438.4 mm	14.39 lb / 6.54kg

OUTSIDE CORNERS

DIRECT PLY



Direct Ply Outside Corners are all-steel right angle corners that lock adjoining panels and/or fillers together to form outside corners.

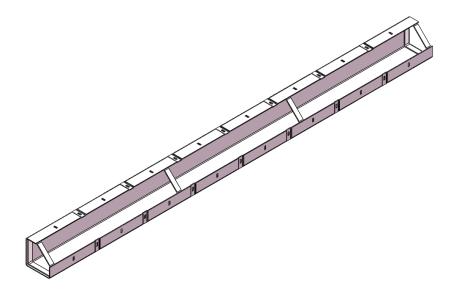
ADDITIONAL INFORMATION

• Material: Steel

Part No.	Description	Height	Weight
FWDPSCO02	2' Outside Corner	2′ / 609.6 mm	6.42 lb / 2.89 kg
FWDPSCO03	3' Outside Corner	3′ / 914.4 mm	7.45 lb / 3.38 kg
FWDPSCO04	4' Outside Corner	4' / 1219.2 mm	9.92 lb / 4.5 kg
FWDPSCO05	5' Outside Corner	5′ / 1524 mm	7.45 lb / 3.38 kg
FWDPSCO06	6' Outside Corner	6′ / 1828.8 mm	9.92 lb / 4.5 kg
FWDPSCO08	8' Outside Corner	8′ / 2438.4 mm	12.38 lb / 5.61 kg

INSIDE CORNERS

DIRECT PLY



Direct Ply Inside Corners are all-steel right angle corners that lock adjoining panels and/or fillers together. Inside Corners are available in $4" \times 4"$ and $6" \times 6"$ profiles.

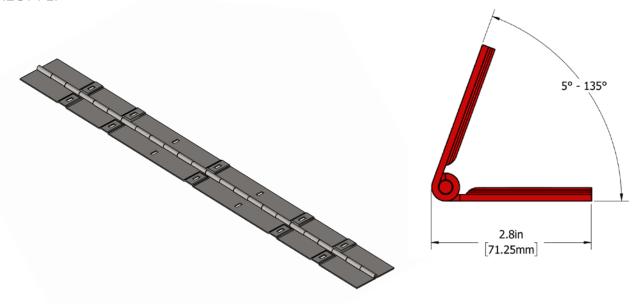
ADDITIONAL INFORMATION

• Material: Steel

Part No.	Description	Width	Height	Weight
FWDPSCI0304	3' x 4" Inside Corner	4" / 101.6 mm	3′ / 914.4 mm	19.17 lb / 8.7 kg
FWDPSCI0404	4' x 4" Inside Corner	4" / 101.6 mm	4' / 1219.2 mm	25.04 lb / 11.36 kg
FWDPSCI0504	5' x 4" Inside Corner	4" / 101.6 mm	5' / 1524 mm	31.19 lb / 14.15 kg
FWDPSCI0604	6' x 4" Inside Corner	4" / 101.6 mm	6′ / 1828.8 mm	37.06 lb / 16.81 kg
FWDPSCI0804	8' x 4" Inside Corner	4" / 101.6 mm	8′ / 2438.4 mm	48.79 lb / 22.14 kg
FWDPSCI0206	2' x 6" Inside Corner	6" / 152.4 mm	2′ / 609.6 mm	18.13 lb / 8.22 kg
FWDPSCI0306	3' x 6" Inside Corner	6" / 152.4 mm	3′ / 914.4 mm	25.92 lb / 11.76 kg
FWDPSCI0406	4' x 6" Inside Corner	6" / 152.4 mm	4' / 1219.2 mm	33.71 lb / 15.3 kg
FWDPSCI0506	5' x 6" Inside Corner	6" / 152.4 mm	5' / 1524 mm	41.96 lb / 19.04 kg
FWDPSCI0606	6' x 6" Inside Corner	6" / 152.4 mm	6′ / 1828.8 mm	49.75 lb / 22.57 kg
FWDPSCI0806	8' x 6" Inside Corner	6" / 152.4 mm	8′ / 2438.4 mm	65.34 lb / 29.65 kg

OUTSIDE HINGED CORNER

DIRECT PLY



Direct Ply Outside Hinged Corners are used between two forms to form outside corners with angles ranging from 5° minimum to 135° maximum without interference.

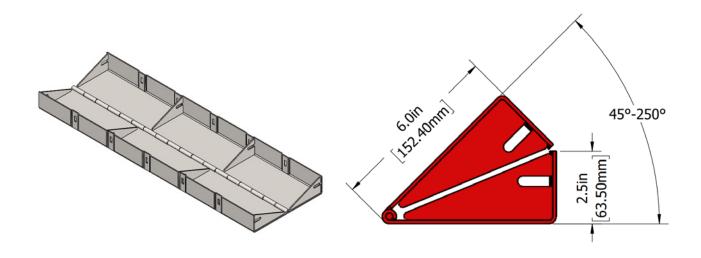
ADDITIONAL INFORMATION

• Material: Steel

Part No.	Description	Height	Weight
FWDPSOHC3	3' Outside Hinged Corner	3′ / 914.4 mm	7.45 lb / 3.38 kg
FWDPSOHC4	4' Outside Hinged Corner	4′ / 1219.2 mm	9.92 lb / 4.5 kg
FWDPSOHC5	5' Outside Hinged Corner	5′ / 1524 mm	12.38 lb / 5.61 kg
FWDPSOHC6	6' Outside Hinged Corner	6′ / 1828.8 mm	14.85 lb / 6.73 kg
FWDPSOHC8	8' Outside Hinged Corner	8′ / 2438.4 mm	19.8 lb / 8.98 kg

INSIDE HINGED CORNERS

DIRECT PLY



Direct Ply Inside Hinged Corners have a 6"x6" face dimension and can be used to form inside corners to a minimum 45° and a maximum of 250° .

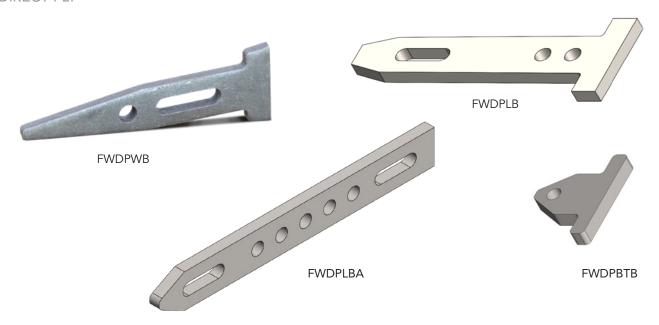
ADDITIONAL INFORMATION

• Material: Steel

Part No.	Description	Height	Weight
FWDPSIHC3	3' Inside Hinged Corner	3′ / 914.4 mm	2438.4 lb / 62.15 kg
FWDPSIHC4	4' Inside Hinged Corner	4′ / 1219.2 mm	1828.8 lb / 46.57 kg
FWDPSIHC5	5' Inside Hinged Corner	5′ / 1524 mm	1524 lb / 39.12 kg
FWDPSIHC6	6' Inside Hinged Corner	6′ / 1828.8 mm	1219.2 lb / 31.22 kg
FWDPSIHC8	8' Inside Hinged Corner	8′ / 2438.4 mm	914.4 lb / 23.54 kg

CONNECTING HARDWARE

DIRECT PLY



Direct Ply connecting hardware is utilized to connect adjacent panels, fillers, and corners.

They may also be utilized to attach various other Direct Ply components.

ADDITIONAL INFORMATION

- Standard Wedge Bolts: act as a lock-set for all standard connections
- Long Bolts: used in conjunction with a standard wedge bolt to connect steel fillers to adjacent panels/fillers
- Adjustable Long Bolts: used when two steel fillers are side-by-side, up to a maximum of 3 inches
- Base Tie Bolts: allow a tie to be utilized at an endrail or siderail up against an existing concrete wall or footing
- Material: Normalized Steel
- Finish: Black

Part No.	Description	Length	Weight
FWDPWB	Standard Wedge Bolt	3.88" / 98.43 mm	0.12 lb / 0.06 kg
FWDPLB	Long Bolt	4.30" / 109.22 mm	0.16 / 0.07 kg
FWDPLBA	Adjustable Long Bolt	5.75" / 146.05 mm	0.17 / 0.08 kg
FWDPBTB	Base Tie Bolt	1.06" / 26.92 mm	0.04 / 0.02 kg

ONE PIECE WALER CLAMPS

DIRECT PLY



The One-Piece Waler Bracket attaches to any side rail wedge bolt slot and will function with either a single or double 2x4 waler.

ADDITIONAL INFORMATION

• Material: Steel

• Finish: Powder Coated

Part No.	Description	Weight
FWDPWC+10	One Piece Waler Clamp	1.91 lb / 0.87 kg

WALER HARDWARE

DIRECT PLY



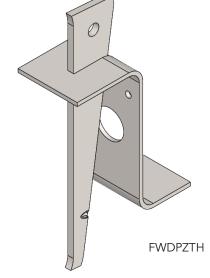
Direct Ply Waler Ties used in conjunction with a Z-Tie Holder, serve to secure either double 2x4 or 2x6 waler lumber with a proper sized Waler Tie connected to the form with Standard Wedge Bolts.

ADDITIONAL INFORMATION

Material: Steel

• Waler Ties Finish: Black

• Z Tie Holder Finish: Powder Coated



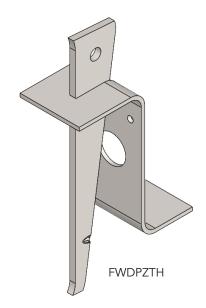
Part No.	Description	Length	Weight
FWDPWT2X4	2x4 Waler Tie	6.38" / 162 mm	0.13 lb / 0.06 kg
FWDPWT2X6	2x6 Waler Tie	8.38" / 212.8 mm	0.15 lb / 0.07 kg
FWDPZTH	Z-Tie Holder		0.81 lb / 0.37 kg

STRONGBACK TIES

DIRECT PLY



Direct Ply Strongback Ties in conjunction with a Z-Tie Holder will secure either 2x4 or 2x6 strongbacks to the walers and the form system. When Strongback Ties are used with lumber walers, the need for a Waler Tie is eliminated at that connection.



ADDITIONAL INFORMATION

Material: SteelFinish: Black

Part No.	Description	Length	Weight
FWDPST4X4	4x4 Strongback Tie	9.83" / 249.8 mm	0.18 lb / 0.08 kg
FWDPST4X6	4x6 Strongback Tie	11.83" / 300.6 mm	0.20 lb / 0.09 kg
FWDPZTH	Z-Tie Holder		0.81 lb / 0.37 kg

J STRONGBACK HOOKS

DIRECT PLY



Direct Ply J-Strongback Hooks are a one piece unit and will secure either 2x4 or 2x6 strongbacks to the lumber walers. Because of the design, the J-Strongback Hook simply hooks over one member of the double waler at any point.

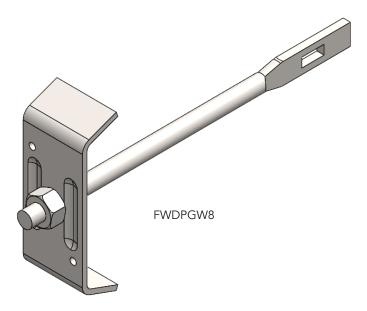
ADDITIONAL INFORMATION

Material: SteelFinish: Black

Part No.	Description	Weight
FWDPSBJ2424	J Strongback Hook 4x4	1.364 lb / 0.65 kg
FWDPSBJ2624	J Strongback Hook 4x6	1.05 lb / 0.48 kg

GANG WALER HARDWARE

DIRECT PLY



Direct Ply Gang Waler Assembly consists of a Gang Waler Rod, Gang Waler Plate, and a Coil Nut to secure a waler to either handset forms or in a gang situation. Loose Gange Waler Rods are stocked in two sizes, 8" and 14".

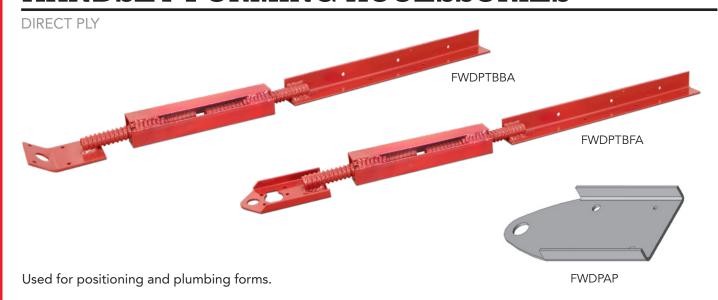
ADDITIONAL INFORMATION

• Material: Steel

Plate Finish: ElectroplatedRod & Nut Finish: Black

Part No.	Description	Weight
FWDPGW8	8" Gang Waler Assembly Includes rod, plate & nut	1.06 lb / 0.48 kg
FWDPGW12	12" Gang Waler Assembly Includes rod, plate & nut	
FWDPGW14	14" Gang Waler Assembly Includes rod, plate & nut	
FWDPGWP	Gang Waler Plate	0.55 lb / 0.25 kg
FWDPGWR8	8" Gang Waler Rod	0.44 lb / 0.20 kg
FWDPGWR12	12" Gang Waler Rod	
FWDPGWR14	14" Gang Waler Rod	0.88 lb / 0.40 kg
FWTRCN05	1/2" Coil Nut	0.066 lb / 0.03 kg

HANDSET FORMING ACCESSORIES



ADDITIONAL INFORMATION

• Material: Steel

• Finish: Powder Coated

Part No.	Description	Max Height	Width	Weight
FWDPTBBA	HD Bent Plate Turnbuckle Brace	41.73" / 1,060 mm	2.9" / 76 mm	7.28 lb / 3.30 kg
FWDPTBFA	HD Flat Plate Turnbuckle Brace	41.50" / 1,054 mm	2.9" / 76 mm	7.05 lb / 3.20 kg
FWDPAP	Attachment Plate	7.30" / 185 mm	3.90" / 99 mm	1.1 lb / 0.5 kg

SCAFFOLD BRACKETS

DIRECT PLY



Part No.	Description	Length	Capacity	Weight
FWDPSBA	Scaffold Bracket	38.6" / 981 mm	500 lb / 226.8 kg	16.4 lb / 7.43 kg

Material: Steel

HEAVY DUTY LOOP TIES

DIRECT PLY



Direct Ply Heavy Duty Loop Ties are used to space and secure modular concrete forms.

ADDITIONAL INFORMATION

Material: SteelFinish: Black

• Capacity: 3,000 lb Safe Working Load at 2:1 Safety Factor

• Standard Breakback: 1"

Part No.	Description	Wall Thickness	Weight
FWDPLTHD06	6" Heavy Duty Loop Tie	6" / 152.4 mm	0.18 lb / 0.08 kg
FWDPLTHD07	7" Heavy Duty Loop Tie	7" / 177.8 mm	0.19 lb / 0.09 kg
FWDPLTHD08	8" Heavy Duty Loop Tie	8" / 203.2 mm	0.2 lb / 0.09 kg
FWDPLTHD09	9" Heavy Duty Loop Tie	9" / 228.6 mm	0.22 lb / 0.1 kg
FWDPLTHD10	10" Heavy Duty Loop Tie	10" / 254 mm	0.24 lb / 0.11 kg
FWDPLTHD11	11" Heavy Duty Loop Tie	11" / 279.4 mm	0.25 lb / 0.11 kg
FWDPLTHD12	12" Heavy Duty Loop Tie	12" / 304.8 mm	0.26 lb / 0.12 kg
FWDPLTHD13	13" Heavy Duty Loop Tie	13" / 330.2 mm	0.29 lb / 0.13 kg
FWDPLTHD14	14" Heavy Duty Loop Tie	14" / 355.6 mm	0.3 lb / 0.14 kg
FWDPLTHD15	15" Heavy Duty Loop Tie	15" / 381 mm	0.3 lb / 0.014 kg
FWDPLTHD16	16" Heavy Duty Loop Tie	16" / 406.4 mm	0.31 lb / 0.14 kg
FWDPLTHD17	17" Heavy Duty Loop Tie	17" / 431.8 mm	0.32 lb / 0.15 kg
FWDPLTHD18	18" Heavy Duty Loop Tie	18" / 457.2 mm	0.33 lb / 0.15 kg
FWDPLTHD19	19" Heavy Duty Loop Tie	19" / 482.6 mm	0.34 lb / 0.15 kg
FWDPLTHD20	20" Heavy Duty Loop Tie	20" / 508 mm	0.35 lb / 0.16 kg
FWDPLTHD21	21" Heavy Duty Loop Tie	21" / 533.4 mm	0.36 lb / 0.16 kg
FWDPLTHD22	22" Heavy Duty Loop Tie	22" / 558.8 mm	0.37 lb / 0.17 kg
FWDPLTHD23	23" Heavy Duty Loop Tie	23" / 584.2 mm	0.41 lb / 0.19 kg
FWDPLTHD24	24" Heavy Duty Loop Tie	24" / 609.6 mm	0.42 lb / 0.19 kg
FWDPLTHD30	30" Heavy Duty Loop Tie	30" / 762 mm	0.54 lb / 0.25 kg
FWDPLTHD36	36" Heavy Duty Loop Tie	36" / 914.4 mm	0.63 lb / 0.29 kg
FWDPLTHD48	48" Heavy Duty Loop Tie	48" / 1219.2 mm	0.82 lb / 0.37 kg
FWDPLTHD60	60" Heavy Duty Loop Tie	60" / 1524 mm	1.01 lb / 0.46 kg

STANDARD X FLAT TIES

DIRECT PLY



Direct Ply Standard X Flat Ties are used to space and secure modular concrete forms.

ADDITIONAL INFORMATION

Material: SteelFinish: Black

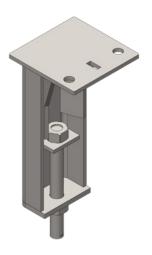
• Capacity: 3,000 lb Safe Working Load at 2:1 Safety Factor

• Standard Breakback: 1/4"

Part No.	Description	Wall Thickness	Weight
FWDPXFT06	6" Standard X Flat Tie	6" / 152.4 mm	0.3 lb / 0.14 kg
FWDPXFT08	8" Standard X Flat Tie	8" / 203.2 mm	0.36 lb / 0.16 kg
FWDPXFT10	10" Standard X Flat Tie	10" / 254 mm	0.41 lb / 0.19 kg
FWDPXFT12	12" Standard X Flat Tie	12" / 304.8 mm	0.46 lb / 0.21 kg
FWDPXFT14	14" Standard X Flat Tie	14" / 355.6 mm	0.52 lb / 0.24 kg
FWDPXFT16	16" Standard X Flat Tie	16" / 406.4 mm	0.57 lb / 0.26 kg
FWDPXFT18	18" Standard X Flat Tie	18" / 457.2 mm	0.63 lb / 0.29 kg
FWDPXFT20	20" Standard X Flat Tie	20" / 508 mm	0.68 lb / 0.31 kg
FWDPXFT22	22" Standard X Flat Tie	22" / 558.8 mm	0.73 lb / 0.33 kg
FWDPXFT24	24" Standard X Flat Tie	24" / 609.6 mm	0.79 lb / 0.36 kg

ADJUSTABLE SHEAR WALL BRACKETS

DIRECT PLY



Direct Ply Adjustable Shear Wall Brackets are ideal for the vertical support of ganged or handset modular form systems.

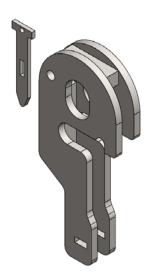
ADDITIONAL INFORMATION

- Bracket has 2-3/8" of vertical adjustment in place
- Safe Working Load Rating when mounted flush in 3,500 psi concrete is 3,000 lb at a 3:1 safety factor
- Material: SteelFinish: Painted

Part No.	Description	Safe Working Load	Weight
FWDPASWB	Adjustable Shear Wall Bracket	3,000 lb / 13.34 kN	9.02 lb / 4.06 kg

DOUBLE DUTY LIFT BRACKETS

DIRECT PLY



Two or more Direct Ply Double Duty Lift Brackets attach at the side rails of two adjoining panels and are secured with the included special long bolt cabled to the part, along with a Standard Wedge Bolt.

Install 16d nail and clinch over after installing Wedge Bolt in special connecting bolt.

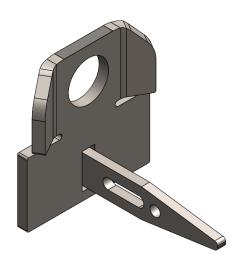
ADDITIONAL INFORMATION

- Material: Steel
- Finish: Powder Coated
- Capacity: 2,000 lb Safe Working Load at 5:1 Safety Factor, capacity drops to 1,000 lb at 45°

Part No.	Description	Safe Working Load	Weight
FWDPDDLB	Double Duty Lift Bracket	2,000 lb / 8.89 kN	6.78 lb / 3.07 kg

SAFETY EYES

DIRECT PLY



Direct Ply Safety Eyes allow easy attachment of safety belts through a 1" diameter hole when necessary to work on the forms. The Safety Eye is installed at the vertical side rails or end rails with an integral special bolt and secured to the form joint with a Standard Wedge Bolt.

Secure Wedge Bolt to plywood with 16d nail.

ADDITIONAL INFORMATION

- The part was designed and tested in accordance with general scaffold safety standard 29 CFR Part 1926 subpart M Appendix C and is suitable for tying off a single person
- The part can be used for both horizontal and vertical rail orientations

Material: SteelFinish: Painted

Part No.	Description	Weight
FWDPSE	Safety Eye	0.682 lb / 0.31 kg





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