

MiTek Open Web Floor System

Posi-STRUT



C.C.M.C. Acceptance No. : 12691-R

MiTek Canada Inc.'s **Posi-Strut** open web floor system offers the **ultimate in design flexibility!** With **longer clear spans** than conventional lumber, architects and engineers can now enjoy clear span flexibility and building design freedom.

Its **open web design** eliminates the need for cutting and drilling; so plumbing, electrical and ventilation services are installed quickly, **saving time and money.** Posi-Strut trusses also permit the installation of strongback bridging which **reduces vibration.**

Longer Clear Spans

Open Web Design Saves Time & Money !



Posi-Strut...

- Available in **9-1/4", 11-1/4", 11-7/8", 12-3/4", 14" & 16" depths** to match most conventional or engineered lumber products.
- Manufactured to precise engineering specifications, for a **strong; rigid truss system.**
- Delivers **reliable performance.**

The Posi-Strut open web floor system is **lightweight** so it's easy to handle and install. Plus, its **wide nailing surface** speeds up installation of floor sheathing. The **top chord bearing detail** allows support beams to be hidden without the extra cost of installing joist hangers. Our Intertek/Warnock-Hersey Listed **one-hour, single-layer drywall fire-rating** simplifies compliance with building codes.

MiTek's **Posi-Strut** trusses **minimize the environmental footprint** by incorporating renewable as well as recycled materials to fight climate change by **reducing greenhouse gases.**

MiTek Canada, Inc.

100 Industrial Rd., Bradford, ON

Canada, L3Z 3G7

800/268-3434 Fax 905/952-2903

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MiTek Open Web Floor System

TRIMMABLE POSI-STRUT



C.C.M.C. Acceptance No. : 12691-R

MiTek Canada Inc.'s **trimmable POSI-STRUT** system offers the ultimate in **design flexibility!** Using the same engineering support that has become the standard in the structural component industry, our **on site trimmable detail** eliminates headaches due to bearing location discrepancies or design changes and assures that **every floor system fits perfectly.**

Its **open web design** eliminates the need for cutting and drilling; so plumbing, electrical and ventilation services are installed quickly, **saving time and money.**

MiTek's trimmable POSI-STRUT trusses **minimize the environmental footprint** by incorporating renewable as well as recycled materials to fight climate change by **reducing greenhouse gases.**

Trimmable on site

Rigid floor system

Available when you need it

Mechanical service openings

Simple to use...



MiTek Authorized Supplier



MiTek Canada, Inc.

100 Industrial Rd., Bradford, ON

Canada, L3Z 3G7

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Residential Floor

L/360 - Live Load Deflection

Nailed & Glued Subfloor

No Ceiling applied

DESIGN CRITERIA

This truss is designed for the floor requirements of **Part 4, NBCC 2010/2015**.

This design complies with:
CSA 086-09 /14
CCMC: 12691-R

TC LL:	40 PSF
TC DL:	10 PSF
BC LL:	0 PSF
BC DL:	5 PSF
Total:	55 PSF
LL Defl. Bare Joist:	L/360
LL Defl. System:	L/360
TL Defl.:	L/180

PS-10V2	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	16'-4"	14'-4"	12'-11"	11'-6"	18'-3"	16'-6"	15'-5"	13'-8"
9 1/4"	SPF MSR 1650f-1.5E	16'-9"	15'-1"	14'-3"	13'-0"	18'-9"	16'-11"	15'-9"	14'-7"
	SPF MSR 2100f-1.8E	17'-10"	16'-1"	15'-1"	13'-11"	19'-1"	17'-11"	16'-10"	15'-5"
	SPF MSR 2400f-2.0E	18'-5"	16'-8"	15'-7"	14'-5"	19'-1"	18'-7"	17'-5"	16'-0"
PS-12	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	18'-8"	16'-0"	14'-9"	12'-11"	21'-2"	18'-9"	17'-5"	15'-6"
11 1/4"	SPF MSR 1650f-1.5E	19'-8"	17'-9"	16'-8"	14'-11"	21'-7"	19'-10"	18'-8"	17'-2"
	SPF MSR 2100f-1.8E	20'-7"	18'-11"	17'-9"	16'-3"	22'-8"	21'-1"	19'-9"	17'-10"
	SPF MSR 2400f-2.0E	21'-4"	19'-7"	18'-5"	16'-11"	22'-10"	21'-8"	20'-3"	18'-0"
PS-12i	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	19'-3"	16'-6"	15'-3"	13'-5"	21'-10"	19'-9"	17'-11"	15'-11"
11 7/8"	SPF MSR 1650f-1.5E	20'-5"	18'-6"	17'-4"	15'-6"	22'-3"	20'-8"	19'-4"	17'-6"
	SPF MSR 2100f-1.8E	21'-5"	19'-7"	18'-5"	16'-11"	23'-5"	21'-8"	20'-6"	17'-6"
	SPF MSR 2400f-2.0E	22'-0"	20'-4"	19'-0"	17'-6"	23'-9"	22'-3"	20'-11"	17'-6"
PS-13	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	20'-1"	16'-8"	15'-10"	14'-0"	22'-9"	20'-7"	18'-7"	16'-9"
12 3/4"	SPF MSR 1650f-1.5E	20'-10"	19'-5"	18'-4"	16'-7"	23'-3"	21'-8"	20'-5"	18'-10"
	SPF MSR 2100f-1.8E	22'-5"	20'-8"	19'-5"	17'-10"	24'-5"	22'-8"	21'-7"	19'-2"
	SPF MSR 2400f-2.0E	22'-11"	20'-10"	20'-1"	18'-0"	25'-1"	23'-5"	22'-0"	19'-2"
PS-14V3	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	21'-2"	17'-7"	16'-8"	14'-9"	24'-0"	21'-6"	19'-8"	17'-8"
14"	SPF MSR 1650f-1.5E	21'-11"	20'-4"	19'-1"	17'-3"	24'-7"	22'-7"	21'-3"	18'-11"
	SPF MSR 2100f-1.8E	23'-8"	21'-7"	20'-3"	18'-7"	25'-9"	23'-8"	22'-7"	18'-11"
	SPF MSR 2400f-2.0E	24'-4"	22'-4"	20'-11"	18'-9"	26'-6"	24'-7"	23'-0"	18'-11"
PS-16V3	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	22'-2"	19'-8"	17'-5"	16'-0"	26'-0"	22'-10"	21'-5"	18'-8"
16"	SPF MSR 1650f-1.5E	24'-5"	22'-3"	20'-5"	18'-6"	26'-6"	24'-8"	23'-1"	18'-11"
	SPF MSR 2100f-1.8E	25'-7"	23'-9"	22'-5"	18'-10"	27'-10"	25'-10"	23'-1"	18'-11"
	SPF MSR 2400f-2.0E	26'-3"	24'-6"	23'-1"	18'-10"	28'-7"	26'-7"	23'-1"	18'-11"

GENERAL NOTES

- Spans shown are overall spans and include 1.5" bearing on each end of the Posi truss. Spans are in units of feet and inches.
- Some spans require specific webbing configurations (such as double webbing). These tables cannot be used on their own for fabrication of the Posi-Strut system. Consult MiTek engineering drawings for final webbing configuration of each Posi-Strut design.
- Minimum bearing size as indicated on the Posi-Strut design drawings but must be at least 1.5 inches.
- Provide restraints at supports to ensure lateral stability. The Posi-strut system requires lateral restraints on top and bottom edges.
- Vibration has been checked using SPF No. 2 strongbacks (2x6 for spans < 24 ft. and 2x8 for all others). Posi-Strut floor spacing of 12" o.c. may require heavier strongback configurations.
- Alternate strongback sizes than those indicated in note [5] may also be acceptable. Consult with the Posi-Strut floor supplier for alternate strongback configurations.
- See individual Posi-Strut design drawings for strongback sizes and locations.
- Subfloor sheathing must possess the span rating for the anticipated spacing of the Posi-Strut floor (minimum 5/8" subfloor thickness).
- Design assumes dry lumber at time of fabrication (moisture content ≤ 19%).

STRESS INCREASES:

DOL Lumber = 1.00
 Nail = 1.00
 Bending = 1.10
 Compression = 1.10
 Shear = 1.10
 Tension = 1.10

Residential Floor

L/360 - Live Load Deflection

Nailed & Glued Subfloor

1x3 Strapping + Gypsum 1/2"

DESIGN CRITERIA

This truss is designed for the floor requirements of **Part 4, NBCC 2010/2015**.

This design complies with:
CSA 086-09 /14
CCMC: 12691-R

TC LL:	40 PSF
TC DL:	10 PSF
BC LL:	0 PSF
BC DL:	5 PSF
Total:	55 PSF
LL Defl. Bare Joist:	L/360
LL Defl. System:	L/360
TL Defl.:	L/180

PS-10V2	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	16'-4"	14'-4"	12'-11"	11'-6"	18'-3"	16'-6"	15'-5"	13'-8"
9 1/4"	SPF MSR 1650f-1.5E	16'-9"	15'-1"	14'-3"	13'-0"	18'-9"	16'-11"	15'-9"	14'-7"
	SPF MSR 2100f-1.8E	17'-10"	16'-1"	15'-1"	13'-11"	19'-1"	17'-11"	16'-10"	15'-5"
	SPF MSR 2400f-2.0E	18'-5"	16'-8"	15'-7"	14'-5"	19'-1"	18'-7"	17'-5"	16'-0"

PS-12	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	18'-8"	16'-0"	14'-9"	12'-11"	21'-4"	18'-9"	17'-5"	15'-6"
11 1/4"	SPF MSR 1650f-1.5E	19'-8"	17'-9"	16'-8"	14'-11"	21'-11"	19'-10"	18'-8"	17'-2"
	SPF MSR 2100f-1.8E	20'-11"	18'-11"	17'-9"	16'-3"	23'-1"	21'-1"	19'-9"	17'-10"
	SPF MSR 2400f-2.0E	21'-8"	19'-7"	18'-5"	16'-11"	23'-1"	21'-10"	20'-5"	18'-0"

PS-12i	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	19'-3"	16'-6"	15'-3"	13'-5"	22'-3"	19'-9"	17'-11"	15'-11"
11 7/8"	SPF MSR 1650f-1.5E	20'-5"	18'-6"	17'-4"	15'-6"	22'-10"	20'-8"	19'-4"	17'-6"
	SPF MSR 2100f-1.8E	21'-9"	19'-8"	18'-5"	16'-11"	24'-0"	22'-0"	20'-6"	17'-6"
	SPF MSR 2400f-2.0E	22'-5"	20'-4"	19'-0"	17'-6"	24'-3"	22'-8"	21'-2"	17'-6"

PS-13	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	20'-1"	16'-8"	15'-10"	14'-0"	23'-5"	20'-7"	18'-7"	16'-9"
12 3/4"	SPF MSR 1650f-1.5E	21'-7"	19'-5"	18'-4"	16'-7"	23'-11"	21'-10"	20'-5"	18'-10"
	SPF MSR 2100f-1.8E	22'-11"	20'-9"	19'-5"	17'-10"	25'-0"	23'-1"	21'-8"	19'-2"
	SPF MSR 2400f-2.0E	23'-7"	21'-6"	20'-1"	18'-0"	25'-8"	23'-11"	22'-4"	19'-2"

PS-14V3	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	21'-2"	17'-7"	16'-8"	14'-9"	24'-6"	21'-6"	19'-8"	17'-8"
14"	SPF MSR 1650f-1.5E	22'-5"	20'-4"	19'-1"	17'-3"	25'-2"	22'-8"	21'-3"	18'-11"
	SPF MSR 2100f-1.8E	23'-11"	21'-7"	20'-3"	18'-7"	26'-4"	24'-1"	22'-7"	18'-11"
	SPF MSR 2400f-2.0E	24'-9"	22'-4"	20'-11"	18'-9"	27'-1"	24'-11"	23'-0"	18'-11"

PS-16V3	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	22'-2"	19'-8"	17'-5"	16'-0"	26'-9"	22'-10"	21'-5"	18'-8"
16"	SPF MSR 1650f-1.5E	24'-11"	22'-3"	20'-5"	18'-6"	27'-3"	25'-1"	23'-1"	18'-11"
	SPF MSR 2100f-1.8E	26'-4"	23'-11"	22'-5"	18'-10"	28'-6"	26'-5"	23'-1"	18'-11"
	SPF MSR 2400f-2.0E	27'-0"	24'-9"	23'-1"	18'-10"	29'-3"	27'-2"	23'-1"	18'-11"

GENERAL NOTES

- Spans shown are overall spans and include 1.5" bearing on each end of the Posi truss. Spans are in units of feet and inches.
- Some spans require specific webbing configurations (such as double webbing). These tables cannot be used on their own for fabrication of the Posi-Strut system. Consult MiTek engineering drawings for final webbing configuration of each Posi-Strut design.
- Minimum bearing size as indicated on the Posi-Strut design drawings but must be at least 1.5 inches.
- Provide restraints at supports to ensure lateral stability. The Posi-strut system requires lateral restraints on top and bottom edges.
- Vibration has been checked using SPF No. 2 strongbacks (2x6 for spans ≤ 24 ft. and 2x8 for all others). Posi-Strut floor spacing of 12" o.c. may require heavier strongback configurations.
- Alternate strongback sizes than those indicated in note [5] may also be acceptable. Consult with the Posi-Strut floor supplier for alternate strongback configurations.
- See individual Posi-Strut design drawings for strongback sizes and locations.
- Subfloor sheathing must possess the span rating for the anticipated spacing of the Posi-Strut floor (minimum 5/8" subfloor thickness).
- Design assumes dry lumber at time of fabrication (moisture content ≤ 19%).

STRESS INCREASES:

DOL Lumber = 1.00
 Nail = 1.00
 Bending = 1.10
 Compression = 1.10
 Shear = 1.10
 Tension = 1.10

Residential Floor

L/480 - Live Load Deflection

Nailed & Glued Subfloor

No Ceiling applied

DESIGN CRITERIA

This truss is designed for the floor requirements of **Part 4, NBCC 2010/2015**.

This design complies with:
CSA 086-09 /14
CCMC: 12691-R

TC LL:	40 PSF
TC DL:	10 PSF
BC LL:	0 PSF
BC DL:	5 PSF
Total:	55 PSF
LL Defl. Bare Joist:	L/360
LL Defl. System:	L/480
TL Defl.:	L/240

PS-10V2	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	16'-2"	14'-4"	12'-11"	11'-6"	17'-11"	16'-3"	15'-3"	13'-8"
9 1/4"	SPF MSR 1650f-1.5E	16'-7"	15'-1"	14'-3"	13'-0"	18'-4"	16'-8"	15'-8"	14'-7"
	SPF MSR 2100f-1.8E	17'-6"	16'-0"	14'-11"	13'-11"	19'-1"	17'-7"	16'-10"	15'-5"
	SPF MSR 2400f-2.0E	18'-1"	16'-6"	15'-4"	14'-5"	19'-1"	18'-2"	17'-1"	16'-0"
PS-12	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	18'-8"	16'-0"	14'-9"	12'-11"	21'-0"	18'-9"	17'-5"	15'-6"
11 1/4"	SPF MSR 1650f-1.5E	19'-5"	17'-8"	16'-8"	14'-11"	21'-7"	19'-7"	18'-6"	17'-2"
	SPF MSR 2100f-1.8E	20'-7"	18'-9"	17'-9"	16'-3"	22'-8"	20'-9"	19'-6"	17'-10"
	SPF MSR 2400f-2.0E	21'-3"	19'-4"	18'-3"	16'-11"	22'-10"	21'-6"	20'-2"	18'-0"
PS-12i	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	19'-3"	16'-6"	15'-3"	13'-5"	21'-10"	19'-9"	17'-11"	15'-11"
11 7/8"	SPF MSR 1650f-1.5E	20'-4"	18'-6"	17'-4"	15'-6"	22'-3"	20'-6"	19'-3"	17'-6"
	SPF MSR 2100f-1.8E	21'-5"	19'-7"	18'-5"	16'-11"	23'-5"	21'-8"	20'-4"	17'-6"
	SPF MSR 2400f-2.0E	22'-0"	20'-3"	19'-0"	17'-6"	23'-9"	22'-3"	20'-11"	17'-6"
PS-13	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	20'-1"	16'-8"	15'-10"	14'-0"	22'-9"	20'-7"	18'-7"	16'-9"
12 3/4"	SPF MSR 1650f-1.5E	20'-10"	19'-5"	18'-4"	16'-7"	23'-3"	21'-7"	20'-4"	18'-10"
	SPF MSR 2100f-1.8E	22'-5"	20'-8"	19'-5"	17'-10"	24'-5"	22'-4"	21'-6"	19'-2"
	SPF MSR 2400f-2.0E	22'-11"	20'-10"	20'-0"	18'-0"	25'-1"	23'-5"	22'-0"	19'-2"
PS-14V3	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	21'-2"	17'-7"	16'-8"	14'-9"	24'-0"	21'-6"	19'-8"	17'-8"
14"	SPF MSR 1650f-1.5E	21'-11"	20'-4"	19'-1"	17'-3"	24'-7"	22'-6"	21'-1"	18'-11"
	SPF MSR 2100f-1.8E	23'-8"	21'-7"	20'-3"	18'-7"	25'-9"	23'-8"	22'-5"	18'-11"
	SPF MSR 2400f-2.0E	24'-4"	22'-2"	20'-10"	18'-9"	26'-6"	24'-7"	23'-0"	18'-11"
PS-16V3	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	22'-2"	19'-8"	17'-5"	16'-0"	26'-0"	22'-10"	21'-5"	18'-8"
16"	SPF MSR 1650f-1.5E	24'-5"	22'-3"	20'-5"	18'-6"	26'-6"	24'-8"	23'-1"	18'-11"
	SPF MSR 2100f-1.8E	25'-7"	23'-9"	22'-5"	18'-10"	27'-10"	25'-10"	23'-1"	18'-11"
	SPF MSR 2400f-2.0E	26'-3"	24'-6"	23'-1"	18'-10"	28'-7"	26'-7"	23'-1"	18'-11"

GENERAL NOTES

- Spans shown are overall spans and include 1.5" bearing on each end of the Posi truss. Spans are in units of feet and inches.
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- Minimum bearing size as indicated on the Posi-Strut design drawings but must be at least 1.5 inches.
- Provide restraints at supports to ensure lateral stability. The Posi-strut system requires lateral restraints on top and bottom edges.
- Vibration has been checked using SPF No. 2 strongbacks (2x6 for spans < 24 ft. and 2x8 for all others). Posi-Strut floor spacing of 12" o.c. may require heavier strongback configurations.
- Alternate strongback sizes than those indicated in note [5] may also be acceptable. Consult with the Posi-Strut floor supplier for alternate strongback configurations.
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- Subfloor sheathing must possess the span rating for the anticipated spacing of the Posi-Strut floor (minimum 5/8" subfloor thickness).
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STRESS INCREASES:

DOL Lumber = 1.00
 Nail = 1.00
 Bending = 1.10
 Compression = 1.10
 Shear = 1.10
 Tension = 1.10

Residential Floor

L/480 - Live Load Deflection

Nailed & Glued Subfloor

1x3 strapping + Gypsum 1/2"

DESIGN CRITERIA

This truss is designed for the floor requirements of **Part 4, NBCC 2010/2015**.

This design complies with:
CSA 086-09 /14
CCMC: 12691-R

TC LL:	40 PSF
TC DL:	10 PSF
BC LL:	0 PSF
BC DL:	5 PSF
Total:	55 PSF
LL Defl. Bare Joist:	L/360
LL Defl. System:	L/480
TL Defl.:	L/240

PS-10V2	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	16'-2"	14'-4"	12'-11"	11'-6"	17'-11"	16'-3"	15'-3"	13'-8"
9 1/4"	SPF MSR 1650f-1.5E	16'-7"	15'-1"	14'-3"	13'-0"	18'-4"	16'-8"	15'-8"	14'-7"
	SPF MSR 2100f-1.8E	17'-6"	16'-0"	14'-11"	13'-11"	19'-1"	17'-7"	16'-10"	15'-5"
	SPF MSR 2400f-2.0E	18'-1"	16'-6"	15'-4"	14'-5"	19'-1"	18'-2"	17'-1"	16'-0"

PS-12	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	18'-8"	16'-0"	14'-9"	12'-11"	21'-4"	18'-9"	17'-5"	15'-6"
11 1/4"	SPF MSR 1650f-1.5E	19'-5"	17'-8"	16'-8"	14'-11"	21'-11"	19'-7"	18'-6"	17'-2"
	SPF MSR 2100f-1.8E	20'-11"	18'-9"	17'-9"	16'-3"	23'-1"	20'-9"	19'-6"	17'-10"
	SPF MSR 2400f-2.0E	21'-8"	19'-4"	18'-3"	16'-11"	23'-1"	21'-10"	20'-5"	18'-0"

PS-12i	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	19'-3"	16'-6"	15'-3"	13'-5"	22'-3"	19'-9"	17'-11"	15'-11"
11 7/8"	SPF MSR 1650f-1.5E	20'-4"	18'-6"	17'-4"	15'-6"	22'-10"	20'-6"	19'-3"	17'-6"
	SPF MSR 2100f-1.8E	21'-9"	19'-8"	18'-5"	16'-11"	23'-10"	22'-0"	20'-4"	17'-6"
	SPF MSR 2400f-2.0E	22'-5"	20'-3"	19'-0"	17'-6"	24'-3"	22'-5"	21'-2"	17'-6"

PS-13	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	20'-1"	16'-8"	15'-10"	14'-0"	23'-5"	20'-7"	18'-7"	16'-9"
12 3/4"	SPF MSR 1650f-1.5E	21'-4"	19'-5"	18'-4"	16'-7"	23'-9"	21'-10"	20'-4"	18'-10"
	SPF MSR 2100f-1.8E	22'-11"	20'-9"	19'-5"	17'-10"	25'-0"	23'-1"	21'-8"	19'-2"
	SPF MSR 2400f-2.0E	23'-5"	21'-6"	20'-0"	18'-0"	25'-8"	23'-11"	22'-4"	19'-2"

PS-14V3	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	21'-2"	17'-7"	16'-8"	14'-9"	24'-6"	21'-6"	19'-8"	17'-8"
14"	SPF MSR 1650f-1.5E	22'-5"	20'-4"	19'-1"	17'-3"	25'-2"	22'-8"	21'-1"	18'-11"
	SPF MSR 2100f-1.8E	23'-11"	21'-7"	20'-3"	18'-7"	26'-4"	24'-1"	22'-5"	18'-11"
	SPF MSR 2400f-2.0E	24'-9"	22'-2"	20'-10"	18'-9"	27'-1"	24'-11"	23'-0"	18'-11"

PS-16V3	SIZE ►	3x2 SPF				4x2 SPF			
	GRADE ▼	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Depth	SPF no. 2	22'-2"	19'-8"	17'-5"	16'-0"	26'-9"	22'-10"	21'-5"	18'-8"
16"	SPF MSR 1650f-1.5E	24'-11"	22'-3"	20'-5"	18'-6"	27'-3"	25'-1"	23'-1"	18'-11"
	SPF MSR 2100f-1.8E	26'-3"	23'-11"	22'-5"	18'-10"	28'-6"	26'-5"	23'-1"	18'-11"
	SPF MSR 2400f-2.0E	27'-0"	24'-9"	23'-1"	18'-10"	29'-3"	27'-2"	23'-1"	18'-11"

GENERAL NOTES

- Spans shown are overall spans and include 1.5" bearing on each end of the Posi truss. Spans are in units of feet and inches.
- Some spans require specific webbing configurations (such as double webbing). These tables cannot be used on their own for fabrication of the Posi-Strut system. Consult MiTek engineering drawings for final webbing configuration of each Posi-Strut design.
- Minimum bearing size as indicated on the Posi-Strut design drawings but must be at least 1.5 inches.
- Provide restraints at supports to ensure lateral stability. The Posi-strut system requires lateral restraints on top and bottom edges.
- Vibration has been checked using SPF No. 2 strongbacks (2x6 for spans ≤ 24 ft. and 2x8 for all others). Posi-Strut floor spacing of 12" o.c. may require heavier strongback configurations.
- Alternate strongback sizes than those indicated in note [5] may also be acceptable. Consult with the Posi-Strut floor supplier for alternate strongback configurations.
- See individual Posi-Strut design drawings for strongback sizes and locations.
- Subfloor sheathing must possess the span rating for the anticipated spacing of the Posi-Strut floor (minimum 5/8" subfloor thickness).
- Design assumes dry lumber at time of fabrication (moisture content ≤ 19%).

STRESS INCREASES:

DOL Lumber = 1.00
 Nail = 1.00
 Bending = 1.10
 Compression = 1.10
 Shear = 1.10
 Tension = 1.10



Longer clear spans provide design flexibility



Open web design makes installation of mechanical services easy

Top chord bearing detail reduces the need for joist hangers



Wide nailing surface speeds installation of floor sheathing

Precision engineering and consistent quality for reliable performance



Strongback bridging system dampens floor vibrations

Intertek/Warnock-Hersey Listed fire-rated assemblies that meet CAN/ULC-S101 and ASTM-E119 standards (1 hour / single-layer drywall)

Reduced construction costs with overall savings in labour, time and materials

Posi-Strut trusses minimize the environmental footprint by incorporating renewable as well as recycled materials

MiTek Posi-Strut System...

**For more
information
contact your
MiTek authorized
Posi-Strut supplier**

Newco Diamond Truss Inc.

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1489 Farms Rd, Woodville ON K0M 2T0

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