

Deck Design Form

Site Plan:

Deck size: ft X ft = ft²

Deck height: ft

Distance to Property Lines:

Rear: ft

Left side: ft

Right side: ft

Front (if applicable): ft

Stairs: Yes or No

Construction Details:

Joist size:(select one)

2X4 or

2X6 or

2X8 or

2X10 or

2X12

Joist spacing:(select one)

8" on centre or

12" on centre or

16" on centre or

24" on centre

Beam Size:(select one)

2X6 or

2X8 or

2X10 or

2X12

Post spacing: ft

Foundation type:(select one)

*Pile:

Screw Pile (engineering):

Stair (when applicable):

Min step run: 255mm (10.2")

Max step rise: 200mm (8")

Min stair width: 860mm (34.4")

Joist Overhang:

Max 18" for 2X6/2X8 Joists

Max 24" for 2X10/2X12 Joists

MAX SPANS (Deck Beams) Supported Length (ft) - means half the sum of the joist spans on both sides of the beam.

SPF No.1/No.2 (SPF)

Supported Length (ft)

2X6

2Ply

8'

3Ply

9'2"

4Ply

10'1"

5Ply

10'10"

2X8

2Ply

10'3"

3Ply

12'1"

4Ply

13'3"

5Ply

12'6"

6'10"

8'

8'10"

9'6"

8'4"

10'3"

11'7"

12'6"

5'11"

7'3"

8'

8'7"

7'2"

8'10"

10'2"

11'3"

5'3"

6'6"

7'5"

8'0"

6'5"

7'10"

9'1"

10'2"

4'10"

5'11"

6'10"

7'6"

5'10"

7'2"

8'4"

9'3"

4'5"

5'5"

6'4"

7'1"

5'5"

6'8"

7'8"

8'7"

4'2"

5'1"

5'11"

6'7"

5'1"

6'3"

7'2"

8'0"

3'11"

4'10"

5'7"

6'3"

4'9"

5'10"

6'9"

7'7"

2X10

2Ply

12'6"

3Ply

15'4"

4Ply

16'11"

5Ply

18'1"

2X12

2Ply

14'6"

3Ply

17'9"

4Ply

19'10"

5Ply

21'0"

10'2"

12'6"

14'5"

15'11"

11'10"

14'6"

16'9"

18'8"

8'9"

10'9"

12'5"

13'11"

10'2"

12'6"

14'5"

16'2"

7'10"

9'8"

11'2"

12'5"

9'1"

11'2"

12'11"

14'5"

7'2"

8'9"

10'2"

11'4"

8'4"

10'2"

11'9"

13'2"

6'8"

8'2"

9'5"

10'6"

7'8"

9'5"

10'11"

12'2"

6'2"

7'7"

8'9"

9'10"

7'2"

8'10"

10'2"

11'5"

5'10"

7'2"

8'3"

9'3"

6'9"

8'4"

9'7"

10'9"

MAX SPANS (Deck Joists)

SPF No.1/No.2 (SPF)

2X4

8" O/C

7'3"

12" O/C

6'4"

16" O/C

5'9"

24" O/C

5'0"

2X6

8" O/C

11'5"

12" O/C

10'0"

16" O/C

9'1"

24" O/C

7'11"

2X8

8" O/C

15'1"

12" O/C

13'2"

16" O/C

11'11"

24" O/C

10'1"

2X10

8" O/C

19'3"

12" O/C

16'10"

16" O/C

15'2"

24" O/C

12'4"

2X12

8" O/C

23'5"

12" O/C

20'3"

16" O/C

17'7"

24" O/C

14'4"

ALL DETAILS FROM SPAN BOOK 2020

***Foundation Notes:** Concrete piles (min 9" in diameter) are to be installed not less than the depth of frost penetration. (Min 4')

All specs/details are references from the National Building Code (2023) AB Edition/Span Book 2020 (A-9.23.4.2.)