ALTERNATIVE 1.1
Joist Perpendicular to Wall W/ Brick

2015 IRC
Section R403.1.6 Foundation Anchorage
Section R404 Foundations and Retaining Walls
Section R404.1 Concrete and Masonry Foundation Walls

*This figure is provided as an example. This is not an all inclusive list of code requirements.

WALLBOARD
WATER-RESISTIVE BARRIER AND SHEATHING
FRAMING HANGER W/ SHEAR NAILS
PLYWOOD/OSB
JOIST

1" AIR SPACE OR 1" MONITORED SPACE

MASONRY VENEER

3"
METAL TIE
FLASHING
WEEPHOLE

3x LEDGER W/ 1/2" Ø MIN SCREW ANCHORS AT 4'-0" 1 1/2" MAX. SEE SECTIONS R606.11 TYP FOR SPACING AND EMBED LENGTHS

1/2" Ø ANCHOR BOLT OR EQ W/ 7" EMBED INTO CONCRETE SPACED AT 6'-0" MAX (R403.1.6)

a. See Sections R703.8.5, R703.8.6 and R703.4
b. See Sections R703.2 and R703.8.4
c. See Sections R703.8.4.2 and R703.8.4
ALTERNATIVE 1.2
Joist Parallel to Wall W/ Brick

2015 IRC
Section R403.1.6 Foundation Anchorage
Section R404 Foundations and Retaining Walls
Section R404.1 Concrete and Masonry Foundation Walls

*This figure is provided as an example. This is not an all inclusive list of code requirements.

WALLBOARD

SOLID BLOCKING AT FIRST (3) JOIST SPACING

NAILS/SCREWS AT 2” O.C.

PLYWOOD/OSB

2x LEDGER W/ 1/2” Ø MIN
SCREW ANCHORS AT 4’-0” MAX. SEE SECTIONS R606.11
FOR SPACING AND EMBED LENGTHS

1/2” Ø ANCHOR BOLT OR EQ
W/ 7” EMBED INTO CONC
SPACED AT 6’-0” MAX (R403.1.6)

1 1/2” MIN
1” AIR SPACE OR
1” MONITORED SPACE

MASONRY VENEER

WATER-RESISTIVE BARRIER
AND SHEATHING

METAL TIE

FLASHING

WEEPHOLE

a. See Sections R703.8.5, R703.8.6 and R703.4
b. See Sections R703.2 and R703.8.4
c. See Sections R703.8.4.2 and R703.8.4
ALTERNATIVE 1.3

Joist Perpendicular to Wall W/O Brick

2015 IRC
Section R403.1.6 Foundation Anchorage
Section R404 Foundations and Retaining Walls
Section R404.1 Concrete and Masonry Foundation Walls

* This figure is provided as an example. This is not an all inclusive list of code requirements.

WALLBOARD

PLYWOOD/OSB

JOIST

WATER-RESISTIVE BARRIER AND SHEATHING

FRAMING HANGER W/ SHEAR NAILS

3x LEDGER W/ 1/2"Ø MIN SCREW ANCHORS AT 4'-0" MAX. SEE SECTIONS R606.11 FOR SPACING AND EMBED LENGTHS

1 1/2"

1/2"Ø ANCHOR BOLT OR EQ W/ 7" EMBED INTO CONC SPACED AT 6'-0" MAX (R403.1.6)
ALTERNATIVE 1.4

Joist Parallel to Wall W/O Brick

2015 IRC

Section R403.1.6 Foundation Anchorage
Section R404 Foundations and Retaining Walls
Section R404.1 Concrete and Masonry Foundation Walls

* This figure is provided as an example. This is not an all inclusive list of code requirements.

WALLBOARD

NAILS/SCREWS AT 2"O.C.

PLYWOOD/OSB

WATER-RESISTIVE BARRIER AND SHEATHING

1/2"φ ANCHOR BOLT OR EQ W/ 7" EMBED INTO CONC, SPACED AT 6'-0" MAX (R403.1.6)

SOLID BLOCKING AT FIRST (3) JOIST SPACING

2x LEDGER W/ 1/2"φ MIN SCREW ANCHORS AT 4'-0" MAX. SEE SECTIONS R606.11 FOR SPACING AND EMBED LENGTHS

1 1/2"
ALTERNATIVE 2.1

Joist Perpendicular to Wall

2015 IRC

Section R403.1.6 Foundation Anchorage
Section R404 Foundations and Retaining Walls
Section R404.1 Concrete and Masonry Foundation Walls

* This figure is provided as an example. This is not an all inclusive list of code requirements.

NOTE A: Refer to the manufacturers tables for required spacing and placement of FWAZ wall angles.

WALLBOARD

FWAZ WALL ANGLE BY SIMPSON STRONG–TIE OR EQ AT 4’–0” MAX, SEE NOTE A

WATER RESISTIVE BARRIER AND SHEATHING

JOISTS

PER MFR

1 1/2” MAX

RIM JOIST

FOUNDATION

FOUNDATION

(1) 5/8” φ6” EMBED TITEN HD ANCHOR BY SIMPSON STRONG–TIE OR EQ AT EA WALL ANGLE, 4’–0” MAX, SEE NOTE A

SIDE VIEW

FRONT VIEW

1/2” φ ANCHOR BOLT OR EQ W/ 7” EMBED INTO CONC SPACED AT 6’–0” MAX (R403.1.6)
ALTERNATIVE 2.2
Joist Parallel to Wall

2015 IRC
Section R403.1.6 Foundation Anchorage
Section R404 Foundations and Retaining Walls
Section R404.1 Concrete and Masonry Foundation Walls

* This figure is provided as an example. This in not an all inclusive list of code requirements.

NOTE A: Refer to the manufacturers tables for required spacing and placement of FWAZ wall angles

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WALLBOARD

NAILS/SCREWS AT 2" O.C.

PLYWOOD/OSB

SOLID BLOCKING AT FIRST (3) JOIST SPACING

1/2" Ø ANCHOR BOLT OR EQ W/ 7" EMBED INTO CONC SPACED AT 6'-0" MAX (R403.1.6)

WATER RESISTIVE BARRIER AND SHEATHING

FWAZ WALL ANGLE BY SIMPSON STRONG–TIE OR EQ AT 4'-0" MAX, SEE NOTE A

SOLID BLOCKING

JOIST

FOUNDATION

SIDE VIEW

FRONT VIEW

1 1/2" MAX

(1) 5/8" Øx6" EMBED TITEN HD ANCHOR BY SIMPSON STRONG–TIE OR EQ AT EA WALL ANGLE, 4'-0" MAX, SEE NOTE A
ALTERNATIVE 3.1

Joist Perpendicular to Wall W/O Brick

2015 IRC

Section R403.1.6 Foundation Anchorage
Section R404 Foundations and Retaining Walls
Section R404.1 Concrete and Masonry Foundation Walls

* This figure is provided as an example. This is not an all-inclusive list of code requirements.

WALLBOARD

PLYWOOD/OSB

JOIST

WATER-RESISTIVE BARRIER AND SHEATHING

(3) SIMPSON SDS 1/4”x3” SELF DRILLING SCREWS OR EQ CENTERED ON JOIST

L4x3x3/8x0’–3” LG, LLH CENTERED AT EA JOIST

1/2”Φ ANCHOR BOLT OR EQ W/ 7” EMBED INTO CONC SPACED AT 6’–0” MAX (R403.1.6)
ALTERNATIVE 3.2

Joist Parallel to Wall W/O Brick

2015 IRC
Section R403.1.6 Foundation Anchorage
Section R404 Foundations and Retaining Walls
Section R404.1 Concrete and Masonry Foundation Walls

* This figure is provided as an example. This is not an all inclusive list of code requirements.

WALLBOARD

NAILS/SCREWS
AT 2"o.c.

PLYWOOD/OSB

SOLID BLOCKING AT FIRST
(3) JOIST SPACING

(3) SIMPSON SDS 1/4"x3"
SELF DRILLING SCREWS OR
EQ CENTERED ON BLOCKING

L4x3x3/8x0'-3" LG,
LLH AT 16"o.c. MAX

WATER-RESISTIVE
BARRIER AND SHEathing

1/2"φ ANCHOR BOLT OR EQ
W/ 7" EMBED INTO CONC,
SPACED AT 6'-0" MAX
(R403.1.6)
ALTERNATIVE 4

2015 IRC
Section R403.1.6 Foundation Anchorage
Section R404 Foundations and Retaining Walls
Section R404.1 Concrete and Masonry Foundation Walls

* This figure is provided as an example. This is not an all inclusive list of code requirements.

PLAN VIEW OF FOUNDATION

(3) #4 BARS ARE TO BE PLACED HORIZ EVERY
2'-0" FROM THE BASE OF THE FOOTING FOR
WALLS UP TO 9'-0" TALL
(2) #4 BARS ARE TO BE PLACED HORIZ EVERY
2'-0" FROM THE BASE OF THE FOOTING FOR
WALLS LESS THAN 8'-0" TALL

NOTES:
1. (3) #4 BARS CAN BE REPLACED BY (1) #7
2. (2) #4 BARS CAN BE REPLACED BY (1) #6
3. MIN 48 BAR DIAMETER LAP SPLICES
4. GRADE 60 STEEL REINFORCEMENT
This figure is provided as an example. This is not an all inclusive list of code requirements.

Either a filter fabric sock around drain tile or filter fabric on the gravel shall be required, not both unless desired by the contractor.