Recommendation: Review the Advantage ICF System Installation Videos.

They can be found at [www.plastifab.com/applications/advantageicf/installation_video.html](http://www.plastifab.com/applications/advantageicf/installation_video.html)

When building with the Advantage ICF System please review your local building code requirements with your local building officials before your permitting stage.
## Typical Advantage ICF System Detail Drawings Index

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<th><strong>200-mm (8”) Advantage ICF Installation Detail Drawing Description</strong></th>
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NOTES:

1. DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL.

2. DOWEL FROM FOOTING TO MATCH SIZE OF VERTICAL REBAR AT A MAXIMUM SPACING OF 24” O.C. WITH MINIMUM 8” TOTAL EMBEDMENT INTO FOOTING AND 3” COVER THICKNESS OR AS PER LOCAL CODE. IF FOOTING IS LESS THAN 11” THICK, USE "L" SHAPE DOWEL.
NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
6" ADVANTAGE ICF SYSTEM
TYPICAL DIMENSIONS

LEDGER CONNECTION
SEE NOTE BELOW

SPACING AS PER MANUFACTURER DETAILS

NOTES:

1. FOR SIMPSON STRONG-TIE LEDGER CONNECTION SYSTEM
   SEE MANUFACTURER DETAILS AND TABLE @ www.strongtie.com

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   SEE MANUFACTURER DETAILS AND TABLE @ www.icfconnect.com
NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL

SUB-FLOOR
NOTE: LOCATION OF SQUASH BLOCKS AND PERPENDICULAR BLOCKING AS PER FLOOR MANUFACTURER SPECS.
BLOCKING AS REQUIRED

TYPICAL 2x6 FRAMING

TRUSS JOIST OR FLOOR JOIST AS PER REST OF FLOOR

RIM JOIST

SILL PLATE C/W ANCHOR BOLTS AS PER LOCAL BUILDING CODE

2-10M CONTINUOUS IN TOP OF WALL TYPICAL
NOTE: LOCATION OF JOIST BLOCKING AS PER FLOOR MANUFACTURER SPECS.

SUB-FLOOR

AIR SPACE

MASONRY TIE

BRICK VENEER WITH STEEL ANGLE SUPPORT

SILL PLATE C/W ANCHOR BOLTS AS PER LOCAL BUILDING CODE

2-10M CONTINUOUS IN TOP OF WALL TYPICAL

BRICK LEDGE ANGLE SEE TECHNICAL MANUAL FOR DESIGN DETAILS

ANCHOR BOLTS OR HILTI BOLTS OR EQUAL

TYPICAL 8" HIGH X 4" WIDE BLOCKOUT IN THE FOAM INSULATION

NOTE: DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
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3. ENGINEER TO CONFIRM BEARING CAPACITY REQUIRED FOR SPECIFIC BEAMS.
NOTE:
COLUMN DIMENSIONS AS REQUIRED BY ENGINEER

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3. SEE TECHNICAL MANUAL FOR REINFORCING.
NOTES:
1. DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL.
2. REBAR OVERLAP TO BE 450 MM (18") FOR 10M AND 650 MM (26") FOR 15M.
3. MULTI STRAPS INSTALLED PRIOR TO POUR AS PER INSTALLATION MANUAL.
TO MATCH WALL HORIZONTAL REINFORCEMENT TYPICAL ALTERNATE LAYERS REVERSED

NOTE: CORNER BARS ALTERNATE OVERLAP (LEG LEFT FIRST COURSE, LEG RIGHT SECOND COURSE) PER VERTICAL COURSE OF BLOCK

1 EXTRA VERTICAL BAR

24" TYPICAL EACH LEG

NOTE: TEES REQUIRE EXTRA BRACING ON BACK AND INSIDE CORNERS DURING CONCRETE POUR SEE INSTALLATION MANUAL

NOTE: DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
EXTERIOR FINISH AS REQUIRED BY CODE

GYPSUM WALL BOARD
INSULSPAN SIP PANEL

SUB FLOOR

FLOOR JOIST

2" x 12" SILL PLATE C/W ANCHOR BOLTS AS PER LOCAL BUILDING CODE

TOP ROW TAPERED TOP BLOCK.

NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL

EXTERIOR FINISH AS REQUIRED BY CODE

GYPSUM WALL BOARD

INSULSPAN SIP PANEL

SILL PLATE C/W ANCHOR BOLTS AS PER LOCAL BUILDING CODE

CONCRETE SLAB

STEEL DOWEL RECOMMENDED
TIE BLOCK ABOVE BRICK LEDGE DOWN WITH ADVANTAGE BANDING, ZIP STRAP, OR REBAR WIRE TO KEEP TOP BLOCK FROM FLOATING

GLUE THESE JOINTS WITH LOW EXPANSION FOAM ADHESIVE CONTINUOUS

10M STIRRUP SEE TECHNICAL MANUAL PAGE 8 OR PER LOCAL ENGINEER

GLUE THESE JOINTS WITH LOW EXPANSION FOAM ADHESIVE CONTINUOUS

NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
TIE BLOCK ABOVE BRICK LEDGE DOWN WITH ADVANTAGE BANDING, ZIP STRAP, OR REBAR WIRE TO KEEP TOP BLOCK FROM FLOATING

2x4 TREATED LEDGE PLATE C/W BOLTS AS PER LOCAL BUILDING CODE

10M STIRRUP SEE TECHNICAL MANUAL PAGE 8 OR PER LOCAL ENGINEER

GLUE THESE JOINTS WITH LOW EXPANSION FOAM ADHESIVE CONTINUOUS

NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
SPACE BETWEEN FLOOR JOISTS & EPS 1/2"—3/4"
KEEP FROM SQUEAKING

FLOOR JOIST TYPICAL

BLOCKING BETWEEN FLOOR JOISTS PER JOIST SUPPLIER'S REQUIREMENTS

NOTE:
FOR USE WITH DETAIL D.14.6

NOTE:
FASTEN FLOOR JOISTS TO 2x SILL PLATE AS PER LOCAL BUILDING CODE REQUIREMENTS

NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
TIE BLOCK ABOVE BRICK
LEDGE DOWN WITH ADVANTAGE
BANDING, ZIP STRAP, OR
REBAR WIRE TO KEEP TOP
BLOCK FROM FLOATING

2x4 TREATED LEDGE
PLATE C/W BOLTS AS
PER LOCAL BUILDING
CODE

GLUE THESE JOINTS
WITH LOW EXPANSION
FOAM ADHESIVE
CONTINUOUS

10M STIRRUP SEE
TECHNICAL MANUAL
PAGE 8 OR PER
LOCAL ENGINEER

GLUE THESE JOINTS
WITH LOW EXPANSION
FOAM ADHESIVE
CONTINUOUS

NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE
ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
NOTES:
1. ENSURE APPROPRIATE FROST COVER.
2. THIS IS A LATERALLY UNSUPPORTED WALL. REFER TO LOCAL BUILDING CODES.
3. DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL.
4. HORIZONTAL AND VERTICAL REBAR OVERLAP TO BE 450 mm (18") FOR 10M AND 650 mm (26") FOR 15M.
SILL PLATE C/W ANCHOR BOLTS AS PER LOCAL BUILDING CODE

2–10M IN TOP OF WALL TYPICAL

VERTICAL REBAR PLACED TO THE WALL CENTRELINE

11½"

2 5/8" TYPICAL

2–10M TOP OF FIRST POUR

½" DIAMETER ANCHOR BOLTS

SEE D2.6 OR D3.6 FOR TYP. ATTACHMENT DETAILS

CONCRETE BLOCKOUTS FOR LEDGER BOLTS SPACING
SEE TECHNICAL MANUAL

2% SLOPE

VERTICAL REBAR PLACED TO THE INSIDE FACE OF WALL

DOWELS PER D.1.6

DIMPLED MEMBRANE OR DAMPPROOF AS PER LOCAL BUILDING CODE

FREE DRAINING GRANULAR FILL C/W WEEPING TILE

REFER TO LOCAL BUILDING CODES FOR FOOTING SIZES

NOTES:
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2. HORIZONTAL AND VERTICAL REBAR OVERLAP TO BE 450 mm (18") FOR 10M AND 650 mm (26") FOR 15M.
ENGINEERED WOOD FLOOR
SEE ARCHITECTURAL PLANS

SILL PLATE C/W ANCHOR BOLTS AS PER LOCAL BUILDING CODE

2-10M IN TOP OF WALL TYPICAL

1/2" GYPSUM BOARD

VERTICAL REBAR PLACED TO THE INSIDE FACE OF WALL (SEE REINFORCING TABLE)

2 3/8" TYPICAL

DOWELS PER D.1.6

DIMPLED MEMBRANE OR DAMP PROOF TO LOCAL BUILDING CODE

FREE DRAINING GRANULAR FILL C/W WEEPING TILE

REFER TO LOCAL BUILDING CODES FOR FOOTING SIZES

NOTES:
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SILL PLATE C/W ANCHOR BOLTS AS PER LOCAL BUILDING CODE

1-10M CONTINUOUS IN TOP OF WALL

STEEL DOWEL RECOMMENDED

FREE DRAINING FILL SEE LOCAL BUILDING CODES

VERTICAL REBAR PLACED TO THE CENTRELINE OF WALL

DOWELS PER D.1.6

WEEPING TILE AS PER LOCAL CODE

REFER TO LOCAL BUILDING CODES FOR FOOTING SIZES

NOTES:
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2. HORIZONTAL AND VERTICAL REBAR OVERLAP TO BE 450 mm (18") FOR 10M AND 650 mm (26") FOR 15M.
BRICK LEDGE FACTORED DESIGN LOAD: 16 KN/m

1-10M CONT. EXTRA IN BRICK LEDGE

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8" ADVANTAGE ICF SYSTEM
TYPICAL DIMENSIONS

LEDGER PLATE CONNECTION

BOLT DIA. AND SPACING PER DESIGN REQUIREMENT

JOIST HANGER

CONCRETE BLOCKOUTS

WOOD PROTECTED FROM CONCRETE AS PER LOCAL BUILDING CODE.

NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
8" ADVANTAGE ICF SYSTEM
TYPICAL DIMENSIONS

LEDGER CONNECTION
SEE NOTE BELOW

SPACING AS PER MANUFACTURER DETAILS

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2. FOR ICF CONNECT LEDGER CONNECTION SYSTEM
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TYPICAL 2x6 FRAMING

NOTE: LOCATION OF SQUASH BLOCKS AND PERPENDICULAR BLOCKING AS PER FLOOR MANUFACTURER SPECS.

TRUSS JOIST OR FLOOR JOIST AS PER REST OF FLOOR

RIM JOIST

SUB-FLOOR

NOTE: 2-10M CONTINUOUS IN TOP OF WALL TYPICAL

SILL PLATE C/W ANCHOR BOLTS AS PER LOCAL BUILDING CODE

NOTE:

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ICF SYSTEM TECHNICAL & INSTALLATION MANUAL

AIR SPACE
MASONRY TIE
BRICK VENEER WITH
STEEL ANGLE SUPPORT
LEDGER CONSTRUCTION
SEE D.3.8
BRICK LEDGE ANGLE SEE
TECHNICAL MANUAL
FOR DESIGN DETAILS
ANCHOR BOLTS OR
HILTI BOLTS OR
EQUAL
TYPICAL 8” HIGH X
4” WIDE BLOCKOUT
IN THE FOAM
INSULATION
NOTE:
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3. ENGINEER TO CONFIRM BEARING CAPACITY REQUIRED FOR SPECIFIC BEAMS
NOTE:
COLUMN DIMENSIONS AS REQUIRED BY ENGINEER

TYPICAL WOOD OR STEEL BEAM
COLUMN TO RUN TO FOOTING

NOTE:
1. DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
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3. SEE TECHNICAL MANUAL FOR REINFORCING.
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NOTE: CORNER BARS ALTERNATE OVERLAP (LEG LEFT FIRST COURSE, LEG RIGHT SECOND COURSE) PER VERTICAL COURSE OF BLOCK

1 EXTRA VERTICAL BAR

24" TYPICAL EACH LEG

TO MATCH WALL HORIZONTAL REINFORCEMENT TYPICAL ALTERNATE LAYERS REVERSED

NOTE: TEES REQUIRE EXTRA BRACING ON BACK AND INSIDE CORNERS DURING CONCRETE POUR SEE INSTALLATION MANUAL

NOTE: DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
EXTERIOR FINISH AS REQUIRED BY CODE

GYPSUM WALL BOARD

INSULSPAN SIP PANEL

SUB FLOOR

FLOOR JOIST

2" x 12" SILL PLATE C/W ANCHOR BOLTS AS PER LOCAL BUILDING CODE

NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE
ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
TIE BLOCK ABOVE BRICK LEDGE DOWN WITH ADVANTAGE BANDING, ZIP STRAP, OR REBAR WIRE TO KEEP TOP BLOCK FROM FLOATING

GLUE THESE JOINTS WITH LOW EXPANSION FOAM ADHESIVE CONTINUOUS

10M STIRRUP SEE TECHNICAL MANUAL PAGE 8 OR PER LOCAL ENGINEER

GLUE THESE JOINTS WITH LOW EXPANSION FOAM ADHESIVE CONTINUOUS

NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
TIE BLOCK ABOVE BRICK LEDGE DOWN WITH ADVANTAGE BANDING, ZIP STRAP, OR REBAR WIRE TO KEEP TOP BLOCK FROM FLOATING

2X4 TREATED LEDGE PLATE C/W BOLTS AS PER LOCAL BUILDING CODE

GLUE THESE JOINTS WITH LOW EXPANSION FOAM ADHESIVE CONTINUOUS

10M STIRRUP SEE TECHNICAL MANUAL PAGE 8 OR PER LOCAL ENGINEER

GLUE THESE JOINTS WITH LOW EXPANSION FOAM ADHESIVE CONTINUOUS

NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
NOTE:
FOR USE WITH DETAIL D.14.8

NOTE:
FASTEN FLOOR JOISTS TO 2x SILL PLATE AS PER LOCAL BUILDING CODE REQUIREMENTS

NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
TIE BLOCK ABOVE BRICK LEDGE DOWN WITH ADVANTAGE BANDING, ZIP STRAP, OR REBAR WIRE TO KEEP TOP BLOCK FROM FLOATING

2x4 TREATED LEDGE PLATE C/W BOLTS AS PER LOCAL BUILDING CODE

GLUE THESE JOINTS WITH LOW EXPANSION FOAM ADHESIVE CONTINUOUS

10M STIRRUP SEE TECHNICAL MANUAL PAGE 8 OR PER LOCAL ENGINEER

GLUE THESE JOINTS WITH LOW EXPANSION FOAM ADHESIVE CONTINUOUS

NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
NOTE:
DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL
NOTES:
1. ENSURE APPROPRIATE FROST COVER.
2. THIS IS A LATERALLY UNSUPPORTED WALL. REFER TO LOCAL BUILDING CODES.
3. DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL.
4. HORIZONTAL AND VERTICAL REBAR OVERLAP TO BE 450 mm (18") FOR 10M AND 650 mm (26") FOR 15M.
NOTES:
1. DETAIL TO BE USED IN CONJUNCTION WITH ADVANTAGE ICF SYSTEM TECHNICAL & INSTALLATION MANUAL.
2. HORIZONTAL AND VERTICAL REBAR OVERLAP TO BE 450 mm (18") FOR 10M AND 650 mm (26") FOR 15M.
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SILL PLATE C/W ANCHOR BOLTS AS PER LOCAL BUILDING CODE

2–10 M IN TOP OF WALL TYPICAL
VERTICAL REBAR PLACED TO THE WALL CENTRELINE

13 ¼"
2⅛" TYPICAL
CONCRETE BLOCKOUTS FOR LEDGER BOLTS SPACING SEE TECHNICAL MANUAL

½" DIAMETER ANCHOR BOLTS
SEE D2.8 OR D3.8 FOR TYP. ATTACHMENT DETAILS
VERTICAL REBAR PLACED TO THE WALL CENTRELINE

½" DIAMETER ANCHOR BOLTS
SEE D2.8 OR D3.8 FOR TYP. ATTACHMENT DETAILS
CONCRETE BLOCKOUTS FOR LEDGER BOLTS SPACING SEE TECHNICAL MANUAL

2% SLOPE
DIMPLED MEMBRANE OR DAMPPROOF TO LOCAL BUILDING CODE

VERTICAL REBAR PLACED TO THE INSIDE FACE OF WALL
DOWELS PER D.1.8

FREE DRAINING GRANULAR FILL C/W WEEPING TILE

REFER TO LOCAL BUILDING CODES FOR FOOTING SIZES

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Advantage ICF System Specifications

General Product Description

EPS Insulation: Complies with CAN/ULC-S701, Type 2 and ASTM C578, Type II
Contains no CFCs, HCFCs, HFCs or formaldehyde.
ECP-Certified Insulation

Concrete: 20 MPa (2900 psi) at 28 days
Nominal thickness 152-mm (6") or 203-mm (8")

Sound Transmission: STC Rating 50

Fire Resistance Rating: 3-hour rating for 152-mm (6") or 4-hour 203-mm (8") concrete wall per National Building

Air & Vapour Barrier: Provided by combination of monolithic concrete thickness and EPS insulation.

Code Evaluation Reports: CCMC 13101-R (Canada) and ICC-ES ESR-1578 (USA)

Energy Efficiency - Typical Effective Thermal Resistance (R-Value):

Below Grade: Advantage ICF System @ R-22.7 (RSI - 3.99)
Note: R-Value based upon typical construction with 1/2" (127 mm) gypsum board on interior face.

Above Grade: Advantage ICF System @ R-23.5 (RSI - 4.14)
Note: R-Value based upon typical construction with 1/2" (127 mm) gypsum board on interior face and vinyl or
metal siding on exterior face.

Contact Information

Contact Plasti-Fab® Ltd.
Tel: 1 888 446 5377
www.advantageicf.com

Made with ECP-Certified Insulation

Better building ideas

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