IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE REGULATIONS AND BUILDING CODE REQUIREMENTS CONCERNING THE USE OF THESE PRODUCTS.

IT IS FURTHER THE RESPONSIBILITY OF THE USER TO RESEARCH AND UNDERSTAND SAFE METHODS OF USE AND HANDLING OF THESE PRODUCTS.
I-JOISTS PARALLEL TO QUAD-LOCK

BOLTED METHOD WITH CONCRETE TRANSITION

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Quad-Lock Building Systems
7398 - 132nd Street
Surrey, BC V3W 4M7
Canada
888.711.5625 - Toll Free
604.590.3111
604.590.8412 - fax
www.quadlock.com

DATE DRAWN: 2016-11-29
REVISION NO: N/A
REVISION DATE: 2017-02-03
APPROVED BY: G. KUSTERMANN
REVISION NO: QLU-302

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INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES

QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR

SUBFLOOR

ENGINEERED I-JOISTS AS SPECIFIED

HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

VERTICAL WALL REINFORCEMENT

WATER PROOFING AS SPECIFIED (QUAD-LOCK PEEL & STICK OR EQ.)

SLOPE GRADE AWAY FROM WALL

BACKFILL

PARGING AS SPECIFIED MINIMUM 6" EXPOSED ABOVE GRADE

LEDGER BOARD WITH ANCHOR BOLTS CAST IN PLACE SIZE AND SPACING AS SPECIFIED

VERTICAL FURRING STRIPS

ENGINEERED I-JOISTS AS SPECIFIED

QUAD-LOCK PLUS PANEL FOR WALL TRANSITION 4.25" [108mm] THICK EPS

QUAD-LOCK ULTRA PANEL 3.125" [79mm] THICK EPS

QUAD-LOCK PLASTIC TIE (GREEN SHOWN) SPACED AT 12" [305mm] O/C VER & HOR

HOLES CUT IN EPS PANELS - FILLED WITH CONCRETE AT EVERY BOLT LOCATION MIN. HOLE Ø7.25" [185mm] FOR ULTRA PANELS

FURRING FOR CEILING FINISH ATTACHMENT

SUBFLOOR

VERTICAL WALL REINFORCEMENT

MIN. HOLE Ø7.25" [185mm] FOR ULTRA PANELS

HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

VERTICAL WALL REINFORCEMENT

SEE TABLE 8" [203mm] 

HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

VERTICAL WALL REINFORCEMENT

SEE TABLE 8" [203mm] 

HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

VERTICAL WALL REINFORCEMENT

SEE TABLE 8" [203mm]
IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE REGULATIONS AND BUILDING CODE REQUIREMENTS CONCERNING THE USE OF THESE PRODUCTS. IT IS FURTHER THE RESPONSIBILITY OF THE USER TO RESEARCH AND UNDERSTAND SAFE METHODS OF USE AND HANDLING OF THESE PRODUCTS.

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DATE DRAWN: 2016-11-29
REVISION DATE: 2017-02-03

I-JOISTS PERPENDICULAR TO QUAD-LOCK
BOLTED METHOD

NOT TO SCALE

SCALE: 8.5" x 11" [216mm x 279mm]

APPROVED ON: YYYY-MM-DD
APPROVED BY: G. KUSTERMANN

SUBFLOOR
ENGINEERED I-JOISTS AS SPECIFIED

BLOCKING AS SPECIFIED
HOLES CUT IN EPS PANELS - FILLED WITH CONCRETE AT EVERY BOLT LOCATION MIN. HOLE Ø7.25" [185mm] FOR ULTRA PANELS

QUAD-LOCK ULTRA PANEL 3.125" [79mm] THICK EPS

QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR

FURRING FOR CEILING FINISH ATTACHMENT

JOIST HANGERS AS SPECIFIED

LEDGER BOARD WITH ANCHOR BOLTS CAST IN PLACE SIZE AND SPACING AS SPECIFIED

HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

WALL FINISH AS SPECIFIED

INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ.
FASTEN TO QUAD-LOCK TIE FLANGES

QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR

SUBSHEET:

BOLTED METHOD

QUAD-LOCK R-28 [U-0.21] WALL

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LEDGER BOARD WITH ANCHOR BOLTS CAST IN PLACE SIZE AND SPACING AS SPECIFIED

WALL FINISH AS SPECIFIED

ENGINEERED I-JOISTS AS SPECIFIED FURRING FOR CEILING FINISH ATTACHMENT

HOLES CUT IN EPS PANELS - FILLED WITH CONCRETE AT EVERY BOLT LOCATION MIN. HOLE Ø7.25" [185mm] FOR ULTRA PANELS

QUAD-LOCK ULTRA PANEL 3.125" [79mm] THICK EPS

VERTICAL WALL REINFORCEMENT

HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES

QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR

SUBFLOOR

BLOCKING AS SPECIFIED

HORIZONTAL WALL REINFORCEMENT

VERTICAL WALL REINFORCEMENT
**Quad-Lock R-28 [U-0.21] Wall**

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**Interior Wall Finish:** Gypsum wallboard or equivalent. Fasten to Quad-Lock tie flanges.

**Quad-Lock Plastic Tie** (yellow shown) spaced at 12" [305mm] O/C ver & hor.

**Ledger Board** as specified.

**Joist Hangers** as specified.

**Subfloor Blocking** as specified.

**Engineered I-Joists** as specified.

**Furring** for ceiling finish attachment.

**Simpson ICFVL** cast in place for wood ledger board.

**Simpson ICFVL-CW** (1 1/2" [40mm] for LVL ledger board).

**Simpson ICFVL** cast in place.

**Interior Wall Finish** - Gypsum wallboard or equivalent. Fasten to Quad-Lock tie flanges.

**Quad-Lock Ultra Panel** 3.125" [79mm] thick EPS.

**Vertical Wall Reinforcement** placed alternately left and right of vertical reinforcement.

**Horizontal Wall Reinforcement** placed alternately left and right of vertical reinforcement.

**Brick Ties** cast in place size and spacing as specified.

**Brick Finish** as specified.

**Quadrant I-Joists Perpendicular to Quad-Lock**

**Simpson ICFVL Method**

**Date Drawn:** 2016-11-29

**Revised By:** Z. Prostran

**Approved On:** 2017-02-03

**Not to Scale:**

**Scale:** 8.5" x 11" [216mm x 279mm]
IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE REGULATIONS AND BUILDING CODE REQUIREMENTS CONCERNING THE USE OF THESE PRODUCTS.

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**Quad-Lock Building Systems**
7398 - 132nd Street
Surrey, BC  V3W 4M7
Canada

**Quadrant Ultra Panel**
3.125" [79mm] Thick EPS

**WALL FINISH AS SPECIFIED**

**LEDGER BOARD WITH ANCHOR BOLTS**
CAST IN PLACE
SIZE AND SPACING AS SPECIFIED

**Vertial Wall Reinforcement**

**Horizontal Wall Reinforcement**
PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

**INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES**

**Quad-Lock Plastic Tie (Yellow Shown)**
SPACED AT 12" [305mm] O/C VER & HOR

**Joist Hangers As Specified**

**Subfloor**

**Blocking As Specified**

**Holes Cut In EPS Panels - Filled With Concrete At Every Bolt Location**
MIN. HOLE Ø7.25" [185mm] FOR ULTRA PANELS

**Wood Joists As Specified**

**Quadrant Ultra Panel**
3.125" [79mm] Thick EPS

**NOT TO SCALE**

**Wood Joists Perpendicular To Quadrant**
Bolted Method

**DATE DRAWN:**
2016-11-29

**Drawing No.:**
Z. PROSTRAN

**APPROVED ON:**
2017-02-03

**APPROVED BY:**
G. KUSTERMANN

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WOOD JOISTS PARALLEL TO QUAD-LOCK

BOLTED METHOD

DATE DRAWN: 2016-11-29
SCALE: 8.5" x 11" [216mm x 279mm]

APPROVED ON: 2017-02-03

N/A

Z. PROSTRAN

G. KUSTERMANN

WOOD JOISTS AS SPECIFIED

WALL FINISH AS SPECIFIED

LEDGER BOARD WITH ANCHOR BOLTS
CAST IN PLACE
SIZE AND SPACING AS SPECIFIED

HOLES CUT IN EPS PANELS - FILLED WITH CONCRETE
AT EVERY BOLT LOCATION
MIN. HOLE Ø7.25" [185mm] FOR ULTRA PANELS

QUAD-LOCK ULTRA PANEL
3.125" [79mm] THICK EPS

FURRING FOR CEILING FINISH ATTACHMENT

HORIZONTAL WALL REINFORCEMENT
PLACED ALTERNATELY LEFT AND RIGHT
OF VERTICAL REINFORCEMENT

INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ.
FASTEN TO QUAD-LOCK TIE FLANGES

QUAD-LOCK PLASTIC TIE (YELLOW SHOWN)
SPACED AT 12" [305mm] O/C VER & HOR

BLUE TIE = 4" [102mm]
YELLOW TIE = 6" [152mm]
GREEN TIE = 8" [203mm]
RED TIE = 10" [254mm]
BLACK TIE + XT = 14" [356mm]
BLACK TIE = ETC.

CONCRETE CORE
THICKNESS

TIE NAME
BLUE TIE
YELLOW TIE
GREEN TIE
RED TIE
BLACK TIE + XT
ETC.

CONCRETE CORE
THICKNESS
4" [102mm]
6" [152mm]
8" [203mm]
10" [254mm]
12" [305mm]
14" [356mm]

SUBFLOOR

BLOCKING AS SPECIFIED

NOT TO SCALE
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WOOD JOISTS PERPENDICULAR TO QUAD-LOCK
SIMPSON ICFVL METHOD

INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ.
FASTEN TO QUAD-LOCK TIE FLANGES

QUAD-LOCK PLASTIC TIE (YELLOW SHOWN)
SPACED AT 12" [305mm] O/C VER & HOR

LEDGER BOARD AS SPECIFIED

JOIST HANGERS AS SPECIFIED

SUBFLOOR

BLOCKING AS SPECIFIED

WOOD JOISTS AS SPECIFIED

FURRING FOR CEILING FINISH ATTACHMENT

SIMPSON ICFVL-W (1 1/2" [40mm] FOR WOOD LEDGER BOARD)
OR SIMPSON ICFVL-CW (1 1/2" [40mm] FOR LVL LEDGER BOARD

SIMPSON ICFVL CAST IN PLACE

LEDGER BOARD

QUAD-LOCK ULTRA PANEL
3.125" [79mm] THICK EPS

HORIZONTAL WALL REINFORCEMENT
PLACED ALTERNATELY LEFT AND RIGHT
OF VERTICAL REINFORCEMENT

VERTICAL WALL REINFORCEMENT

BRICK TIES CAST IN PLACE
SIZE AND SPACING AS SPECIFIED

BRICK FINISH AS SPECIFIED
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### Quad-Lock Building Systems

7398 - 132nd Street
Surrey, BC  V3W 4M7
Canada

DRAWN BY: Z. PROSTRAN
DATE DRAWN: 2016-11-29
REVISION NO: N/A
SCALE: 8.5" x 11" [216mm x 279mm]
SHEET SIZE: 8.5" x 11" [216mm x 279mm]
NOT TO SCALE

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**QUAD-LOCK R-28 [U-0.21] WALL**

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**WOOD JOISTS PARALLEL TO QUAD-LOCK**

**SIMPSON ICFVL METHOD**

**INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES**

**QUAD-LOCK PLASTIC TIE (YELLOW SHOWN)**
SPACED AT 12" [305mm] O/C VER & HOR

**LEDGER BOARD AS SPECIFIED**

**BLOCKING AS SPECIFIED**

**SUBFLOOR**

**WOOD JOISTS AS SPECIFIED**

**Furring FOR Ceiling Finish Attachment**

**SIMPSON ICFVL-W (1 9/16" [40mm] FOR WOOD LEDGER BOARD)**
**OR SIMPSON ICFVL-CW (1 13/16" [46mm] FOR LVL LEDGER BOARD)**

**SIMPSON ICFVL CAST IN PLACE**

**LEDGER BOARD**

---

**QUAD-LOCK ULTRA PANEL**
3.125" [79mm] THICK EPS

**HORIZONTAL WALL REINFORCEMENT**
PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

**VERTICAL WALL REINFORCEMENT**

**BRICK FINISH AS SPECIFIED**

**BRICK TIES CAST IN PLACE**
SIZE AND SPACING AS SPECIFIED

**QUAD-LOCK PLASTIC TIE (YELLOW SHOWN)**
SPACED AT 12" [305mm] O/C VER & HOR

---

**CONCRETE CORE THICKNESS**

**TIE NAME**

**QUAD-LOCK R-28 [U-0.21] WALL**

**6" [152mm]**
SEE TABLE

---

**WOOD JOISTS PARALLEL TO QUAD-LOCK**

**SIMPSON ICFVL METHOD**

---

**INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES**

**QUAD-LOCK PLASTIC TIE (YELLOW SHOWN)**
SPACED AT 12" [305mm] O/C VER & HOR

**LEDGER BOARD AS SPECIFIED**

**BLOCKING AS SPECIFIED**

**SUBFLOOR**

**WOOD JOISTS AS SPECIFIED**

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**SIMPSON ICFVL-W (1 9/16" [40mm] FOR WOOD LEDGER BOARD)**
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**SIMPSON ICFVL CAST IN PLACE**

**LEDGER BOARD**

---

**QUAD-LOCK ULTRA PANEL**
3.125" [79mm] THICK EPS

**HORIZONTAL WALL REINFORCEMENT**
PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

**VERTICAL WALL REINFORCEMENT**

**BRICK FINISH AS SPECIFIED**

**BRICK TIES CAST IN PLACE**
SIZE AND SPACING AS SPECIFIED

**QUAD-LOCK PLASTIC TIE (YELLOW SHOWN)**
SPACED AT 12" [305mm] O/C VER & HOR

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**CONCRETE CORE THICKNESS**

**TIE NAME**

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**WOOD JOISTS PARALLEL TO QUAD-LOCK**

**SIMPSON ICFVL METHOD**

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**INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES**

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**LEDGER BOARD AS SPECIFIED**

**BLOCKING AS SPECIFIED**

**SUBFLOOR**

**WOOD JOISTS AS SPECIFIED**

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**SIMPSON ICFVL-W (1 9/16" [40mm] FOR WOOD LEDGER BOARD)**
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**SIMPSON ICFVL CAST IN PLACE**

**LEDGER BOARD**

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**QUAD-LOCK ULTRA PANEL**
3.125" [79mm] THICK EPS

**HORIZONTAL WALL REINFORCEMENT**
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**BRICK FINISH AS SPECIFIED**

**BRICK TIES CAST IN PLACE**
SIZE AND SPACING AS SPECIFIED

**QUAD-LOCK PLASTIC TIE (YELLOW SHOWN)**
SPACED AT 12" [305mm] O/C VER & HOR

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**CONCRETE CORE THICKNESS**

**TIE NAME**

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**WOOD JOISTS PARALLEL TO QUAD-LOCK**

**SIMPSON ICFVL METHOD**

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**INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES**

**QUAD-LOCK PLASTIC TIE (YELLOW SHOWN)**
SPACED AT 12" [305mm] O/C VER & HOR

**LEDGER BOARD AS SPECIFIED**

**BLOCKING AS SPECIFIED**

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**WOOD JOISTS AS SPECIFIED**

**Furring FOR Ceiling Finish Attachment**

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**SIMPSON ICFVL CAST IN PLACE**

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**QUAD-LOCK ULTRA PANEL**
3.125" [79mm] THICK EPS

**HORIZONTAL WALL REINFORCEMENT**
PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

**VERTICAL WALL REINFORCEMENT**

**BRICK FINISH AS SPECIFIED**

**BRICK TIES CAST IN PLACE**
SIZE AND SPACING AS SPECIFIED

**QUAD-LOCK PLASTIC TIE (YELLOW SHOWN)**
SPACED AT 12" [305mm] O/C VER & HOR

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**CONCRETE CORE THICKNESS**

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WOOD TRUSSES PERPENDICULAR TO QUAD-LOCK

BOLTED METHOD

LEDGER BOARD WITH ANCHOR BOLTS CAST IN PLACE SIZE AND SPACING AS SPECIFIED

WALL FINISH AS SPECIFIED

WALL FINISH AS SPECIFIED

INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES

SUBFLOOR

WOOD TRUSSES AS SPECIFIED

HOLES CUT IN EPS PANELS - FILLED WITH CONCRETE AT EVERY BOLT LOCATION MIN. HOLE Ø7.25" [185mm] FOR ULTRA PANELS

WOOD TRUSSES AS SPECIFIED

QUAD-LOCK ULTRA PANEL 3.125" [79mm] THICK EPS

QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR

QUAD-LOCK ULTRA PANEL 3.125" [79mm] THICK EPS

QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR

QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR

VERTICAL WALL REINFORCEMENT

HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

HORIZONTAL WALL REINFORCEMENT
IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE REGULATIONS AND BUILDING CODE REQUIREMENTS CONCERNING THE USE OF THESE PRODUCTS.

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- LEDGER BOARD WITH ANCHOR BOLTS CAST IN PLACE SIZE AND SPACING AS SPECIFIED
- LATERAL BRACING (STRONGBACK) AS SPECIFIED
- FLOOR TRUSSES AS SPECIFIED
- HOLES CUT IN EPS PANELS - FILLED WITH CONCRETE AT EVERY BOLT LOCATION MIN. HOLE Ø7.25" [185mm] FOR ULTRA PANELS
- QUAD-LOCK ULTRA PANEL 3.125" [79mm] THICK EPS
- WALL FINISH AS SPECIFIED

**WOOD TRUSSES PARALLEL TO QUAD-LOCK**

**BOLTED METHOD**

- QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR
- INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES
- WALL FINISH AS SPECIFIED
- HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT
- VERTICAL WALL REINFORCEMENT
- SUBFLOOR
- FURRING FOR CEILING FINISH ATTACHMENT

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**NOT TO SCALE**

**DATE DRAWN:** 2016-11-29
**SCALE:** 8.5" x 11" [216mm x 279mm]
**APPROVED ON:** 2017-02-03
**APPROVED BY:** G. KUSTERMANN

**DRAWN BY:** Z. PROSTRAN
**REVISION DATE:** DRAWING NO:
Quad-Lock R-28 [U-0.21] Wall

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- **Interior Wall Finish** - Gypsum Wallboard or equivalent. Fasten to Quad-Lock tie flanges.
- **Quad-Lock Plastic Tie** (yellow shown) spaced at 12" [305mm] O/C VER & HOR.
- **Ledger Board** as specified.
- **Joist Hangers** as specified.
- **Subfloor**
- **Wood Trusses** as specified.
- **Simpson ICFVL-CW (1 13/16" [46mm] for LVL ledger board)
  - Simpson ICFVL-C (1 9/16" [40mm] for wood ledger board)
- **Simpson ICFVL** cast in place.
- **Interior Wall Finish** - Gypsum Wallboard or equivalent. Fasten to Quad-Lock tie flanges.
- **Concrete Core Thickness**

**Wood Trusses Perpendicular to Quad-Lock**

**Simpson ICFVL Method**

**Date Revised**: 2016-11-29

**Scale**: NOT TO SCALE

**Size**: 8.5" x 11" [216mm x 279mm]

**Drawing NO**: QLU-313
### Quad-Lock R-28 [U-0.21] Wall

#### Tie Name
- **Blue Tie**: 4" (102mm)
- **Yellow Tie**: 6" (152mm)
- **Green Tie**: 8" (203mm)
- **Red Tie**: 10" (254mm)
- **Brown Tie**: 12" (305mm)
- **Black Tie + XT**: 14" (356mm)

#### Concrete Core Thickness

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#### Wood Trusses Parallel to Quad-Lock

**Simpson ICFVL Method**

- **Interior Wall Finish**: Gypsum Wallboard or Eq. Fasten to Quad-Lock Tie Flanges
- **Quad-Lock Plastic Tie**: (Yellow Shown) Spaced at 12" [305mm] O/C Ver & Hor
- **Ledger Board**: As Specified
- **Floor Trusses**: As Specified
- **Subfloor**: Furring for Ceiling Finish Attachment
- **Lateral Bracing**: (Strongback) As Specified
- **Simpson ICFVL-W**: (1 9/16" [40mm] For Wood Ledger Board)
- **Simpson ICFVL-CW**: (1 13/16" [46mm] For LVL Ledger Board)
- **Quad-Lock Cast in Place**: 
- **Quad-Lock Plastic Ties**: (Yellow Shown) Spaced at 12" [305mm] O/C Ver & Hor
- **Brick Finish**: As Specified
- **Brick Ties**: Cast in Place, Size and Spacing As Specified
- **Quad-Lock Ultra Panel**: 3.125" [79mm] Thick EPS
- **Vertical Wall Reinforcement**: Placed Alternately Left and Right of Vertical Reinforcement
- **Horizontal Wall Reinforcement**: Placed Alternately Left and Right of Vertical Reinforcement
- **LEDGER BOARD**: As Specified
- **Furring for Ceiling Finish Attachment**:
- **Simpson ICFVL-Cast in Place**:
- **Lateral Bracing**: (Strongback) As Specified
- **Simpson ICFVL-Cast in Place**:

---

**Quad-Lock Building Systems**

612.0 x 792.0 [216mm x 279mm]

---

**NOT TO SCALE**

**WOOD TRUSSES PARALLEL TO QUAD-LOCK**

**Simpson ICFVL Method**

**Date Drawn**: 2016-11-29

**Scale**: 8.5" x 11" [216mm x 279mm]

**Approved by**: G. Kustermann

---

**Quad-Lock Building Systems**

7298 - 132nd Street

Surrey, BC V3W 4M7

Canada

866.711.5625 - Toll Free

604.590.3111

604.590.8412 - fax

www.quadlock.com

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### Quad-Lock Building Systems
7398 - 132nd Street
Surrey, BC, V3W 4M7
Canada

DRAWN BY: [Name]
DATE DRAWN: YYYY-MM-DD
REVISION NO: N/A
SCALE: 8.5" x 11" [216mm x 279mm]
SHEET SIZE: NOT TO SCALE
APPROVED BY: G. KUSTERMANN
APPROVED ON: 2017-02-03

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**HOLLOW CORE PRECAST PANELS**

**PERPENDICULAR TO QUAD-LOCK**

- **QUAD-LOCK R-28 [U-0.21] WALL**
- **HOLLOW CORE PRECAST PANEL AS SPECIFIED**
- **REINFORCEMENT DOWELS AS SPECIFIED**
- **BREAK SKIN ON TOP OF EACH CORE & FILL WITH CONCRETE**
- **BEARING PAD AND BEARING DISTANCE AS SPECIFIED**
- **QUAD-LOCK METAL TRACK**
- **CONCRETE TOPPING AS SPECIFIED**
- **FLOOR FINISH AS SPECIFIED**
- **FURRING FOR CEILING FINISH ATTACHMENT**
- **QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR**
- **INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES**
- **QUAD-LOCK ULTRA PANEL 3.125" [79mm] THICK EPS**
- **INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES**
- **HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT**
- **VERTICAL WALL REINFORCEMENT**
- **BRICK TIES CAST IN PLACE SIZE AND SPACING AS SPECIFIED**
- **QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR**
- **INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES**
- **BRICK FINISH AS SPECIFIED**
- **HOLLOW CORE PRECAST PANEL AS SPECIFIED**
- **REINFORCEMENT DOWELS AS SPECIFIED**
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**HOLLOW CORE PRECAST PANELS**

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- **QUAD-LOCK METAL TRACK**
- **CONCRETE TOPPING AS SPECIFIED**
- **FLOOR FINISH AS SPECIFIED**
- **FURRING FOR CEILING FINISH ATTACHMENT**

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**QUAD-LOCK R-28 [U-0.21] WALL**

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**QUAD-LOCK ULTRA PANEL 3.125" [79mm] THICK EPS**

**INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES**

**FURRING FOR CEILING FINISH ATTACHMENT**

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**HOLLOW CORE PRECAST PANELS**

**PERPENDICULAR TO QUAD-LOCK**

- **QUAD-LOCK R-28 [U-0.21] WALL**
- **HOLLOW CORE PRECAST PANEL AS SPECIFIED**
- **REINFORCEMENT DOWELS AS SPECIFIED**
- **BREAK SKIN ON TOP OF EACH CORE & FILL WITH CONCRETE**
- **BEARING PAD AND BEARING DISTANCE AS SPECIFIED**
- **QUAD-LOCK METAL TRACK**
- **CONCRETE TOPPING AS SPECIFIED**
- **FLOOR FINISH AS SPECIFIED**
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- **REINFORCEMENT DOWELS AS SPECIFIED**
- **BREAK SKIN ON TOP OF EACH CORE & FILL WITH CONCRETE**
- **BEARING PAD AND BEARING DISTANCE AS SPECIFIED**
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- **CONCRETE TOPPING AS SPECIFIED**
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- **FURRING FOR CEILING FINISH ATTACHMENT**

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BLUE TIE     = YELLOW TIE     = GREEN TIE     = RED TIE     = BROWN TIE     = BLACK TIE + XT

QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR

QUAD-LOCK METAL TRACK

REINFORCEMENT DOWELS AS SPECIFIED

HAMBRO JOISTS AS SPECIFIED

FLOOR FINISH AS SPECIFIED

WALL FINISH AS SPECIFIED

HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

VERTICAL WALL REINFORCEMENT

3 1/8" [89mm] MIN. BEARING FOR 4" SHOE

6" [152mm] SEE TABLE

3 1/2" [79mm]

INTERIOR WALL FINISH: GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES

CONCRETE CORE THICKNESS

QUAD-LOCK METAL TRACK

REINFORCEMENT DOWELS AS SPECIFIED

HAMBRO JOISTS AS SPECIFIED

FLOOR FINISH AS SPECIFIED

WALL FINISH AS SPECIFIED

HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

3 1/8" [89mm] MIN. BEARING FOR 4" SHOE

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CONCRETE CORE THICKNESS

QUAD-LOCK METAL TRACK

REINFORCEMENT DOWELS AS SPECIFIED

HAMBRO JOISTS AS SPECIFIED

FLOOR FINISH AS SPECIFIED

WALL FINISH AS SPECIFIED

HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

3 1/8" [89mm] MIN. BEARING FOR 4" SHOE

6" [152mm] SEE TABLE

3 1/2" [79mm]
QUAD-LOCK R-28 [U-0.21] WALL

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INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES

QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR

QUAD-LOCK METAL TRACK

REMOVE CONTINUOUS STRIP OF EPS

SLAB REINFORCEMENT AS SPECIFIED

FLOOR FINISH AS SPECIFIED

FURRING FOR CEILING FINISH ATTACHMENT

WOOD WHALER (SUPPORTS FURRING) ATTACHED TO PLASTIC TIES OR DIRECTLY TO CONCRETE

REINFORCEMENT DOWELS AS SPECIFIED

HAMBRO JOISTS PARALLEL TO QUAD-LOCK

WALL FINISH AS SPECIFIED

HAMBRO FLANGE HANGER

AS SPECIFIED

HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

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<td>8&quot; [203mm]</td>
</tr>
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<td>RED TIE</td>
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<tr>
<td>BROWN TIE</td>
<td>12&quot; [305mm]</td>
</tr>
<tr>
<td>BLACK TIE + XT</td>
<td>14&quot; [356mm]</td>
</tr>
</tbody>
</table>

OPEN WEB STEEL JOISTS (OWSJ) PERPENDICULAR TO QUAD-LOCK

- QUAD-LOCK R-28 [U-0.21] WALL
- QUAD-LOCK ULTRA PANEL 3.125" [79mm] THICK EPS
- VERTICAL WALL REINFORCEMENT
- HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT
- INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES
- QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR
- CONTINUOUS STEEL ANGLE WELDED TO TOP OF OWSJ CORDS
- REMOVE EPS AT EVERY JOIST LOCATION OR CONTINUOUS STRIP
- CORRUGATED STEEL DECKING AS SPECIFIED
- FLOOR FINISH AS SPECIFIED
- OPEN WEB STEEL JOISTS (OWSJ) AS SPECIFIED
- STEEL ANGLE AT EVERY JOIST OR CONTINUOUS WITH CONCRETE ANCHOR BOLTS AS SPECIFIED

QUAD-LOCK ULTRA PANEL

- 3.125" [79mm] THICK EPS

QUAD-LOCK PLASTIC TIE

- YELLOW SHOWN
- SPACED AT 12" [305mm] O/C VER & HOR

QUAD-LOCK R-28 WALL

- 6" [152mm] SEE TABLE
- NOT TO SCALE

OPEN WEB STEEL JOISTS (OWSJ)

- PERPENDICULAR TO QUAD-LOCK
- 8.5" x 11" [216mm x 279mm]

APPROVED ON: YYYY-MM-DD

APPROVED BY: G. KUSTERMANN

REVISION DATE: 2016-11-29

DRAWN BY: R

DATE DRAWN: 2017-02-03

SHEET SIZE: 8.5" x 11" [216mm x 279mm]

SCALE: NOT TO SCALE

DRAWING NO: QLU-319

QUAD-LOCK BUILDING SYSTEMS
7398 - 132nd Street
Surrey, BC V3W 4M7
Canada
866.711.9625 - Toll Free
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604.590.8412 - fax
www.quadlock.com
IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE REGULATIONS AND BUILDING CODE REQUIREMENTS CONCERNING THE USE OF THESE PRODUCTS.

IT IS FURTHER THE RESPONSIBILITY OF THE USER TO RESEARCH AND UNDERSTAND SAFE METHODS OF USE AND HANDLING OF THESE PRODUCTS.

<table>
<thead>
<tr>
<th>TIE NAME</th>
<th>CONCRETE CORE THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLUE TIE</td>
<td>4&quot; [102mm]</td>
</tr>
<tr>
<td>YELLOW TIE</td>
<td>6&quot; [152mm]</td>
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QUAD-LOCK R-28 [U-0.21] WALL

OPEN WEB STEEL JOISTS (OWSJ) PARALLEL TO QUAD-LOCK WALL

QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR

STEEL ANGLE WITH CONCRETE ANCHOR BOLTS AS SPECIFIED

REMOVE CONTINUOUS STRIP OF EPS

CORRUGATED STEEL DECKING AS SPECIFIED

FLOOR FINISH AS SPECIFIED

OPEN WEB STEEL JOISTS (OWSJ) AS SPECIFIED

WOOD WHALER (SUPPORTS FURRING) ATTACHED TO PLASTIC TIES OR DIRECTLY TO CONCRETE

INTERIOR WALL FINISH - GIPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES

QUAD-LOCK ULTRA PANEL 3.125" [79mm] THICK EPS

VERTICAL WALL REINFORCEMENT

HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

FURRING FOR CEILING FINISH ATTACHMENT

CONCRETE SLAB AS SPECIFIED

FLOOR FINISH AS SPECIFIED

INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ.

FASTEN TO QUAD-LOCK TIE FLANGES

CONCRETE SLAB AS SPECIFIED

FLOOR FINISH AS SPECIFIED

INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ.

FASTEN TO QUAD-LOCK TIE FLANGES
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BRICK FINISH AS SPECIFIED

BRICK TIES CAST IN PLACE SIZE AND SPACING AS SPECIFIED

POCKET BLOCKOUT AT EVERY JOIST BEARING LOCATION SIZE AS SPECIFIED

WELD JOIST TO STEEL PLATE

STEEL PLATE W/ WELDED HEADED ANCHOR STUD AS SPECIFIED

QUAD-LOCK ULTRA PANEL 3.125" [79mm] THICK EPS

VERTICAL WALL REINFORCEMENT

HORIZONTAL WALL REINFORCEMENT PLACED ALTERNATELY LEFT AND RIGHT OF VERTICAL REINFORCEMENT

STEEL ANGLE (WELDED TO TOP OF OWSJ CORDS)

REMOVE EPS AT EVERY JOIST LOCATION OR CONTINUOUS STRIP

CORRUGATED STEEL DECKING AS SPECIFIED

FLOOR FINISH AS SPECIFIED

OPEN WEB STEEL JOISTS (OWSJ) AS SPECIFIED

INTERIOR WALL FINISH - GYPSUM WALLBOARD OR EQ. FASTEN TO QUAD-LOCK TIE FLANGES

QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR

OPEN WEB STEEL JOISTS (OWSJ) PERPENDICULAR TO QUAD-LOCK WALL - BEARING IN POCKETS

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604.590.8412 - fax
www.quadlock.com

QUAD-LOCK R-28 [U-0.21] WALL

<table>
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<td>12&quot; [305mm]</td>
</tr>
<tr>
<td>BLACK TIE + XT</td>
<td>14&quot; [356mm]</td>
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NOT TO SCALE
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<td>14&quot; [356mm]</td>
</tr>
<tr>
<td>ETC</td>
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</table>

INTERIOR WALL FINISH
GYPSUM WALLBOARD OR EQ.
FASTEN TO QUAD-LOCK TIE FLANGES

STEEL ANGLE WITH CONCRETE ANCHOR BOLTS
AS SPECIFIED

REMOVE CONTINUOUS STRIP OF EPS

CORRUGATED STEEL DECKING AS SPECIFIED

FLOOR FINISH AS SPECIFIED

OPEN WEB STEEL JOISTS (OWSJ) AS SPECIFIED

REMOVE EPS PRIOR TO POUR
INSERT BLOCKING AS NEEDED

STEEL BEAM WELDED TO PLATE

STEEL PLATE WITH SHEAR STUDS AS SPECIFIED
CAST IN PLACE

VERTICAL WALL REINFORCEMENT

HORIZONTAL WALL REINFORCEMENT
PLACED ALTERNATELY LEFT AND RIGHT
OF VERTICAL REINFORCEMENT
HORIZONTAL WALL REINFORCEMENT

STEEL BEAM POCKET
WITH OPEN WEB STEEL JOISTS (OWSJ)

QUAD-LOCK ULTRA PANEL
3.125" [79mm] THICK EPS

QUAD-LOCK PLASTIC TIE (GREEN SHOWN)
SPACED AT 12" [305mm] O/C VER & HOR

REINFORCED CONCRETE CORE

BRICK FINISH AS SPECIFIED

BRICK TIES CAST IN PLACE
SIZE AND SPACING AS SPECIFIED

QUAD-LOCK R-28 [U-0.21] WALL

STEEL BEAM POCKET
WITH OPEN WEB STEEL JOISTS (OWSJ)

<table>
<thead>
<tr>
<th>DATE DRAWN</th>
<th>SCALE</th>
<th>NOT TO SCALE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016-11-29</td>
<td>8.5&quot; x 11&quot; [216mm x 279mm]</td>
<td>QLU-322</td>
</tr>
</tbody>
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QUAD-LOCK WALL
FIRE RATED WOOD FLOOR ON BOTH SIDES

<table>
<thead>
<tr>
<th>Tie Name</th>
<th>Concrete Thickness</th>
<th>Intertek Design No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue Tie</td>
<td>4&quot; [102mm]</td>
<td>2 HOURS</td>
</tr>
<tr>
<td>Yellow Tie</td>
<td>6&quot; [152mm]</td>
<td>3 HOURS</td>
</tr>
<tr>
<td>Green Tie</td>
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<td>4 HOURS</td>
</tr>
<tr>
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![Diagram of Quad-Lock Wall with Fire Rated Wood Floor on Both Sides](image-url)