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SURE-SPAN DETAILS
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ATTACH EACH FLANGE

CEMCO SSRT RIM-TRACK

ATTACH RIM-TRACK TO TOP OF WALL (SCREW SIZE & SPACING, BY DESIGN)

3 1/2" MIN

10" MIN, TYP.

ATTACH WEB STIFFENER TO JOIST (SCREW SIZE & QUANTITY, BY DESIGN)

ATTACH FLANGE OF JOIST TO TOP OF WALL (SCREW SIZE, QTY & SPACING, BY DESIGN)

PIECE OF CEMCO STUD OR TRACK WEB STIFFENER, 3/8" SHORTER THAN DEPTH OF JOIST (BY DESIGN)

CEMCO SSCJ FLOOR JOISTS

WALL STUD, ALIGN WITH JOISTS

1 JOIST CONNECTION: JOIST BEARING ON EXTERIOR STUD WALL

SCALE: N.T.S.

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SURE-SPAN DETAILS

REV: 2
RELEASE: 02/28/2017
PIECE OF CEMCO STUD OR TRACK WEB STIFFENER, 3/8" SHORTER THAN DEPTH OF JOIST (BY DESIGN)

P.D.F.'S ATTACH RIM-TRACK TO TOP OF STRUCTURAL MEMBER (FASTENER SIZE, TYPE & SPACING, BY DESIGN)

CEMCO SSRT RIM-TRACK

ATTACH EACH FLANGE

3 1/2" MIN

10" MIN, TYP.

ATTACH FLANGE OF JOIST TO TOP OF STRUCTURAL MEMBER (FASTENER SIZE, TYPE & QUANTITY, BY DESIGN)

ATTACH WEB STIFFENER TO JOIST (SCREW SIZE & QUANTITY, BY DESIGN)

STRUCTURAL MEMBER (BY OTHERS)

CEMCO SSCJ FLOOR JOISTS

JOIST CONNECTION: JOIST BEARING ON STEEL STRUCTURAL END MEMBER

CATEGORY: SURE-SPAN DETAILS

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CATEGORY:
SURE-SPAN DETAILS

JOIST CONNECTION: ONE CONTINUOUS JOIST BEARING OVER STUD WALL

SCALE: N.T.S.
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JOIST CONNECTION: NON-CONTINUOUS JOIST OR TWO JOISTS BEARING OVER STUD WALL

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PIECE OF CEMCO STUD OR TRACK WEB STIFFENER, 3/8" SHORTER THAN DEPTH OF JOIST (BY DESIGN)

CEMCO SSRT RIM TRACK
SCREW ATTACH EACH FLANGE

ATTACH FLANGE OF JOIST TO TOP OF WALL (SCREW SIZE, QTY & SPACING, BY DESIGN)

10" MIN, TYP.
3 1/2" MIN

SCREW ATTACH, WEB STIFFENER TO JOIST (SCREW SIZE & QUANTITY, BY DESIGN)

CEMCO SSCJ FLOOR JOISTS
WALL STUDS, ALIGN WITH JOISTS

JOIST CONNECTION: JOIST BEARING AND CANTILEVERED OVER EXTERIOR STUD WALL

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**JOIST CONNECTION: JOIST BEARING AND CANTILEVERED OVER CONCRETE/ MASONRY/ ICF WALL**

**CATEGORY:** SURE-SPAN DETAILS

**SCALE:** N.T.S.

**DISCLAIMER:**

- Piece of CEMCO stud or track web stiffener, 3/8" shorter than depth of joist (by design)
- CEMCO SSRT rim track
- Attach each flange
- 10" min, typ.
- Attach web stiffener to joist (screw size & quantity, by design)
- CEMCO SSCJ floor joist
- Attach joist flange to top of wall (fastener size, type & quantity, by design)
- Concrete/masonry/insulated concrete forms (ICF) wall (by others)
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JOIST CONNECTION: JOIST- CONCRETE/MANSORY WALL CONNECTION WITH CLIP

12

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CATEGORY:
SURE-SPAN DETAILS

DISCLAIMER:
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CATEGORY:
SURE-SPAN DETAILS

JOIST CONNECTION: JOIST-INSULATED CONCRETE FORMS (ICF) WALL WITH CLIP

SCALE: N.T.S.
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ATTACH CLIP TO CONCRETE  
(FASTENER SIZE, TYPE & QTY, BY DESIGN)

ICF WALL (BY OTHERS)

GIRDER SEATED INTO ICF WALL POCKET

ATTACH CLIP TO GIRDER 
(SCREW SIZE & QTY, BY DESIGN)

ATTACH EACH FLANGE 
(SCREW SIZE & SPACING, BY DESIGN)

CEMCO TRACKS, TOP AND BOTTOM

CEMCO SSCJ FLOOR JOIST

SIMPSON CLIP OR EQUIVALENT,  
(BY DESIGN)

10" MIN, TYP.

JOIST CONNECTION: GIRDER-INSULATED CONCRETE FORMS (ICF)  
WALL POCKET CONNECTION WITH CLIP

DISCLAIMER:
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SIMPSON STRONG-TIE S/JCT OR S/HJCT HANGER (BY DESIGN)

ATTACH (SCREW SIZE & QTY, BY DESIGN)

ALTERNATE CONNECTION, WELD SIZE (BY DESIGN)

CEMCO SSCJ FLOOR JOIST

CEMCO TRACKS TOP AND BOTTOM

ATTACH EACH FLANGE (SCREW SIZE & SPACING, BY DESIGN)

CEMCO SSCJ FLOOR JOIST

JOIST CONNECTION: JOIST- GIRDER CONNECTION WITH SIMPSON STRONG-TIE S/JCT OR S/HJCT HANGER

CATEGORY:
SURE-SPAN DETAILS

SCALE: N.T.S.

16

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PITTSBURG, CA 94565
ENG. DEPT. 925.473-9340
FAX 925.473.9124
www.cemcosteel.com

REV. 1
RELEASE: 02/28/2017
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CATEGORY:
SURE-SPAN
DETAILS

JOIST CONNECTION: JOIST - GIRDER CONNECTION WITH SIMPSON STRONG-TIE S/LBV, S/B ORS/BA HANGER

SCALE: N.T.S.
CEMCO TRACKS, TOP AND BOTTOM
CEMCO SSCJ FLOOR JOIST

ATTACH EACH FLANGE
(SCREW SIZE & SPACING, BY DESIGN)

CEMCO TRACKS, TOP AND BOTTOM

ATTACH EACH SIDE
(SCREW SIZE & QTY, BY DESIGN)

ATTACH WEB STIFFENER TO
JOIST (SCREW SIZE & QTY, BY DESIGN)

CEMCO SSCJ FLOOR JOIST

ATTACH (SCREW SIZE & QTY, BY DESIGN)

SIMPSON STRONG-TIE S/LBV, S/B OR S/BA HANGER (BY DESIGN)

ALTERNATE CONNECTION, WELD SIZE (BY DESIGN)

PIECE OF CEMCO STUD OR TRACK
WEB STIFFENER, 3/8" SHORTER THAN DEPTH OF JOIST (BY DESIGN)
ATTACH FASTENER SIZE, TYPE & QTY (BY DESIGN)

SIMPSON STRONG-TIE S/LBV, S/B OR S/BA HANGER (BY DESIGN)

CEMCO TRACKS, TOP AND BOTTOM

ALTERNATE CONNECTION, WELD SIZE (BY DESIGN)

ATTACH EACH SIDE (SCREW SIZE & QTY, BY DESIGN)

ATTACH EACH FLANGE (SCREW SIZE & SPACING, BY DESIGN)

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CATEGORY:

SURE-SPAN DETAILS

<table>
<thead>
<tr>
<th>FLOOR JOIST DEPTH</th>
<th>MINIMUM BLOCKING THICKNESS</th>
<th>BLOCKING LENGTH</th>
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<tr>
<td></td>
<td></td>
<td>12&quot; O.C.</td>
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<tr>
<td>8&quot;</td>
<td>18GA. (43 MIL)</td>
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<tr>
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<tr>
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<td>16GA. (54 MIL)</td>
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</tbody>
</table>

ATTACH CLIP TO JOIST & BLOCKING (SCREW SIZE AND QTY, BY DESIGN)

SIMPSON CLIP OR EQUIVALENT, EACH END, (BY DESIGN)

CEMCO SSCJ FLOOR JOISTS

PIECE OF CEMCO STUD OR TRACK BLOCKING TO MATCH DEPTH OF FLOOR JOIST, @ MAX 8'-0" O.C., BLOCKING THICKNESS BY DESIGN (SEE TABLE 1)
Cemco Engineering
1001-A Pittsburg Antioch Hwy
Pittsburg, CA 94565
Eng. Dept. 925.473-9340
Fax 925.473.9124
www.cemcosteel.com

JOIST BRIDGING: SOLID BLOCKING WITH STUD OR TRACK AND SURE BRIDGING

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CATEGORY:
SURE-SPAN DETAILS

REV: 2
RELEASE: 02/28/2017

ATTACH CLIP TO JOIST & BLOCKING (SCREW SIZE AND QTY, BY DESIGN)

ATTACH CEMCO SURE BRIDGING (SCREW SIZE AND QTY, BY DESIGN)

CEMCO SURE BRIDGING

CEMCO SSCJ FLOOR JOISTS

TABLE 1

<table>
<thead>
<tr>
<th>FLOOR JOIST DEPTH</th>
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</tr>
</tbody>
</table>

PIECE OF CEMCO STUD OR TRACK BLOCKING TO MATCH DEPTH OF FLOOR JOIST, @ MAX 8'-0" O.C., BLOCKING THICKNESS BY DESIGN (SEE TABLE 1)

SIMPSON CLIP OR EQUIVALENT, EACH END (BY DESIGN)
**22**

**JOIST BRIDGING: DOUBLE STRAP WITH STUD OR TRACK BLOCKING**

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**CATEGORY:**

SURE-SPAN

**DETAILS**

- **JOIST BRIDGING:** DOUBLE STRAP WITH STUD OR TRACK BLOCKING
- **SCALE:** N.T.S.
- **REV:** 2
- **RELEASE:** 02/28/2017

**NOTE:**

TOP STRAP NOT REQUIRED IF TOP SIDE IS FULLY/CONTINUOUSLY SHEATHED.
CONTINUOUS DIAGONAL BRIDGING, BY DESIGN

ATTACH EACH FLANGE, TYP

CEMCO SSCJ FLOOR JOISTS

23A JOIST DIAGONAL BRIDGING

SCALE: N.T.S.

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CATEGORY:
SURE-SPAN DETAILS

REV. 1
RELEASE: 02/28/2017
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CATEGORY:
SURE-SPAN DETAILS

NOTE:
TOP STRAP NOT REQUIRED IF TOP SIDE IS FULLY/CONTINUOUSLY SHEATHED.
JOIST BRIDGING: STRONGBACK BRIDGING WITH SOLID BLOCKING

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CEMCO STUD, CONTINUOUS STRONGBACK BRIDGING (BY DESIGN)

CLIP ANGLE (BY DESIGN)

8'-0" O.C. MAX SPACING OF BRIDGING

ATTACH, CLIP ANGLE TO JOIST & STRONGBACK (SCREW SIZE & QTY, BY DESIGN)

ATTACH EACH FLANGE OF STRAP TO JOIST

CEMCO SSCJ FLOOR JOIST

1 1/2" WIDE x 20GA (33 MIL) THICK FLAT STRAP (INSTALL AT ENDS OF FLOOR SYSTEM AND @ MAX 8'-0" O.C.)
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FLOOR ASSEMBLY: 1 1/2 HOUR/ 1 LAYER FLOOR ASSEMBLY (UL-G556), SECTIONS "A-A" & "B-B"

26A

CATEGORY:
SURE-SPAN DETAILS

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26 FLOOR ASSEMBLY: 1 1/2 HOUR/ 1 LAYER FLOOR ASSEMBLY, (UL - G556)

SCALE: N.T.S.

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CATEGORY:
SURE-SPAN DETAILS

RE: 2
RELEASE: 02/28/2017
FLOOR ASSEMBLY: 2 HOUR/1 LAYER FLOOR ASSEMBLY
(UL-G557), SECTIONS "A-A" & "B-B"

<table>
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<tbody>
<tr>
<td>SURE-SPAN DETAILS</td>
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</table>

MIN 3 5/8" THICK GLASS FIBER BATT INSULATION

USG 3/4" THICK STRUCTO-CRETE STRUCTURAL CONCRETE PANEL

1/2" DEEP CEMCO RESILIENT FURRING CHANNEL (RC-1), SPACED MAX 12" O.C.

CEMCO SSCJ FLOOR JOIST, MIN 10" DEEP, MIN 16GA (54 MIL) THICK & SPACED MAX 24" O.C.

(2) LAYERS OF 5/8" THICK USG GYPSUM PANEL TYPES C OR IP-X2 OR IPC-AR

USG 3/4" THICK STRUCTO-CRETE STRUCTURAL CONCRETE PANEL

CEMCO SSCJ FLOOR JOIST, MIN 10" DEEP, MIN 16GA (54 MIL) THICK & SPACED MAX 24" O.C.

(2) LAYERS OF 5/8" THICK USG GYPSUM PANEL TYPES C OR IP-X2 OR IPC-AR

1/2" DEEP CEMCO RESILIENT FURRING CHANNEL (RC-1), SPACED MAX 12" O.C.
FLOOR ASSEMBLY: 2 HOUR/1 LAYER FLOOR ASSEMBLY, (UL - G557)

- USG 3/4" THICK STRUCTO-CRETE STRUCTURAL CONCRETE PANEL
- MIN 3 5/8" THICK GLASS FIBER BATT INSULATION
- (2) LAYERS OF 5/8" THICK USG GYPSUM PANEL TYPES C OR IP-X2 OR IPC-AR
- CEMCO SSCJ FLOOR JOIST, MIN 10" DEEP, MIN 16GA (54 MIL) THICK & SPACED MAX 24" O.C.
- 1/2" DEEP CEMCO RESILIENT FURRING CHANNEL (RC-1), SPACED MAX 12" O.C.

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FLOOR ASSEMBLY: 2 HOUR/ 1 LAYER FLOOR ASSEMBLY, (UL - G559)
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## CATEGORY:

SURE-SPAN DETAILS

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### FLOOR ASSEMBLY: 2 HOUR/ 1 LAYER FLOOR ASSEMBLY

**SCALE:** N.T.S.

**DETAILS:**

**29A**

**FLOOR ASSEMBLY: 2 HOUR/ 1 LAYER FLOOR ASSEMBLY**

**CATEGORY:**

SURE-SPAN DETAILS

**DETAILS:**

- **MIN 9/16" DEEP & 22GA THICK CORRUGATED FLUTED STEEL DECK**
- **MIN 1" THICK ALLIED CUSTOM GYPSUM PLASTERWORKS LLC. ACCU-CRETE OR ACCURADIANT OR ACCULEVEL G40 OR ACCULEVEL SD30**
- **MIN 3 1/2" THICK GLASS FIBER BATT INSULATION**
- **1/2" DEEP CEMCO RESILIENT FURRING CHANNEL (RC-1), SPACED MAX 12" O.C.**
- **1/2" DEEP CEMCO RESILIENT FURRING CHANNEL (RC-1), SPACED MAX 12" O.C.**
- **(1) LAYER OF 5/8" THICK USG GYPSUM PANEL TYPES C OR IP-X2 OR IPC-AR**
- **CEMCO SSCJ FLOOR JOIST, MIN 10" DEEP, MIN 16GA (54 MIL) THICK & SPACED MAX 24" O.C.**
- **(1) LAYER 5/8" THICK USG GYPSUM PANEL TYPES "C" OR IP-X2 OR IPC-AR**

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**29A FLOOR ASSEMBLY: 2 HOUR/ 1 LAYER FLOOR ASSEMBLY**

**SCALE:** N.T.S.

<table>
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<th>DISCUSSION</th>
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<tr>
<td><strong>29A</strong> FLOOR ASSEMBLY: 2 HOUR/ 1 LAYER FLOOR ASSEMBLY <strong>(UL-G580), SECTIONS &quot;A-A&quot; &amp; &quot;B-B&quot;</strong></td>
</tr>
</tbody>
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**1001-A PITTSBURG ANTIOCH HWY PITTSBURG, CA 94565**

**ENG. DEPT. 925.473-9340**

**FAX 925.473.9124**

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GYPSUM PLASTERWORKS LLC.
ACCU-CRETE OR ACCURADIANT
OR ACCULEVEL G40 OR
ACCULEVEL SD30

1/2" DEEP CEMCO
RESILIENT FURRING
CHANNEL (RC-1),
SPACED MAX 12" O.C.
MIN 9/16" DEEP & 22GA
THICK CORRUGATED FLUTED
STEEL DECK

MIN 3 1/2" THICK GLASS
FIBER BATT INSULATION

(1) LAYER OF 5/8" THICK
USG GYPSUM PANEL, TYPES C
OR IP-X2 OR IPC-AR

CEMCO SSCJ FLOOR JOIST,
MIN 9 1/4" DEEP, MIN 16GA
(54 MIL) THICK MIN &
SPACED MAX 24" O.C.

FLOOR ASSEMBLY: 2 HOUR/ 1 LAYER FLOOR ASSEMBLY
(UL - G580)

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or improper application or installation. This
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This drawing is generic in nature and should
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an independent evaluation by a qualified
Architect or Engineer of Record.
**FLOOR ASSEMBLY: 1 OR 2 HOURS/ 2 LAYERS FLOOR ASSEMBLY (UL-G560), SECTIONS "A-A" & "B-B"**

**SCALE:** N.T.S.

**CATEGORY:**

**SURE-SPAN DETAILS**

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**1/2" DEEP CEMCO RESILIENT FURRING CHANNEL (RC-1), SPACED MAX 12" O.C.**

**MIN 3 1/2" THICK GLASS FIBER BATT INSULATION**

**FLOOR TOPPING Mixture*, MIN 1" THICKNESS. MAXXON CORP OR RAPID FLOOR SYSTEMS**

**CORRUGATED FLUTED STEEL DECK, MIN 9/16" THICKNESS**

**CEMCO SSCJ FLOOR JOIST, MIN 9 1/4" DEEP, MIN 16GA (54 MIL) THICK & SPACED MAX 24" O.C.**

**1/2" DEEP CEMCO RESILIENT FURRING CHANNEL (RC-1), SPACED MAX 12" O.C.**

**1 (1) LAYER OF 5/8" THICK USG GYPSUM PANEL TYPES C OR IP-X2 OR IPC-AR**

**CEMCO SSCJ FLOOR JOIST, MIN 10" DEEP, MIN 16GA (54 MIL) THICK & SPACED MAX 24" O.C.**

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FLOOR ASSEMBLY: 1 OR 2 HOURS/ 2 LAYERS FLOOR ASSEMBLY (UL-G574), SECTIONS "A-A" & "B-B"

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**CATEGORY:**
SURE-SPAN DETAILS

**SCALE:** N.T.S.
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**FLOOR ASSEMBLY: 1, 1 1/2 OR 2 HOUR/ 2 LAYERS FLOOR ASSEMBLY (UL-G565), SECTIONS "A-A" & "B-B"**

**SCALE:** N.T.S.

**CATEGORY:** SURE-SPAN DETAILS

**DISCLAIMER:**

1. **1 1/2 HRS**
   - 1/2" DEEP CEMCO RESILIENT FURRING CHANNEL (RC-1), SPACED MAX 12" O.C., TYP
   - (1) LAYER OF 5/8" THICK USG GYPSUM PANEL TYPES C OR IP-X2 OR IPC-AR

2. **2 HRS**
   - CEMCO SSCJ FLOOR JOIST, MIN 10" DEEP, MIN 16GA (54 MIL) THICK & SPACED MAX 24" O.C., TYP
   - (2) LAYERS OF 5/8" THICK USG GYPSUM PANEL TYPES C OR IP-X2 OR IPC-AR

**SECTION A-A**
- FLOOR TOPPING Mixture*, MIN 1" THICKNESS. HACKER INDUSTRIES INC.
- CORRUGATED FLUTED STEEL DECK, MIN 9/16" THICKNESS
- CEMCO SSCJ FLOOR JOIST, MIN 9 1/4" DEEP, MIN 16GA (54 MIL) THICK & SPACED MAX 24" O.C.
- (2) LAYERS OF 5/8" THICK USG GYPSUM PANEL TYPES C OR IP-X2 OR IPC-AR

**SECTION B-B**
- FLOOR TOPPING Mixture*, MIN 1" THICKNESS. HACKER INDUSTRIES INC.
- CORRUGATED FLUTED STEEL DECK, MIN 9/16" THICKNESS, TYP
- 1/2" DEEP CEMCO RESILIENT FURRING CHANNEL (RC-1), SPACED MAX 12" O.C., TYP
- (1) LAYER OF 5/8" THICK USG GYPSUM PANEL TYPES C OR IP-X2 OR IPC-AR
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FLOOR ASSEMBLY: 1 OR 1 1/2 HOUR/ 1 LAYER FLOOR ASSEMBLY (UL-G503), SECTIONS "A-A" & "B-B"

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FLOOR ASSEMBLY: 1, 1 1/2 OR 2 HOURS/ 1 LAYER FLOOR ASSEMBLY
(UL-G588), SECTIONS "A-A" & "B-B"

CATEGORY: SURE-SPAN DETAILS

35

FLOOR ASSEMBLY: 1, 1 1/2 OR 2 HOURS/ 1 LAYER FLOOR ASSEMBLY
(UL-G588), SECTIONS "A-A" & "B-B"

SCALE: N.T.S.

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CATEGORY:
SURE-SPAN DETAILS

JOIST PUNCH-OUT:
GROMMET HOLE PUNCHOUT SPACING

SCALE: N.T.S.

1 11/32" Ø HOLE TYP.
8" O.C. TYP.

4'-0"
**SURE-SPAN DETAILS**

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<table>
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<tr>
<th>SECTION</th>
<th>L1(in)</th>
<th>L2(in)</th>
<th>Minimum spacing between Punch-Outs (in)</th>
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<td>9 15/32</td>
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SURE BRIDGING FOR 1-3/4" FLANGE JOISTS BACK TO BACK

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<thead>
<tr>
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<th>JOIST SPACING</th>
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<tbody>
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</tr>
<tr>
<td>175SB43192</td>
<td>15 1/2&quot;</td>
<td>19.2&quot; O.C.</td>
</tr>
<tr>
<td>175SB4324</td>
<td>20 1/4&quot;</td>
<td>24&quot; O.C.</td>
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SURE BRIDGING FOR 2" FLANGE JOISTS

<table>
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<tr>
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<td>9 3/4&quot;</td>
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SURE BRIDGING FOR 2" FLANGE JOISTS BACK TO BACK

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**SURE-SPAN JOIST BRIDGING:**
SURE BRIDGING DETAIL AND DIMENSIONS

<table>
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**CATEGORY:**
SURE-SPAN DETAILS

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[CEMCO logo]

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PITTSBURG, CA 94565
ENG. DEPT. 925.473-9340
FAX 925.473.9124
www.cemcosteel.com

REV: 3
RELEASE: 01/23/2014
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**RIM TRACK CLIP: 6" SURE-SPAN RIM TRACK (SSRT) CLIP DETAIL AND DIMENSIONS**

**PART NUMBER** | **T (IN)** | **X (IN)** | **Y (IN)** | **GAUGE**
---|---|---|---|---
P000014-11 | 0.1017 | 0.1525 | 2.07 | 12
P000014-12 | 0.0713 | 0.1069 | 2.01 | 14
P000014-13 | 0.0566 | 0.0849 | 1.99 | 16
P000014-14 | 0.0451 | 0.0712 | 1.96 | 18

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RIM TRACK EMBOS: SURE-SPAN RIM TRACK (SSRT)
EMBOSS WITH CLIP DETAIL

SCALE: N.T.S.

CATEGORY:
SURE-SPAN DETAILS

REV: 1
RELEASE: 02/22/2012