GENERAL JOIST AND DECK NOTES
  BF1000 - JOIST HANDLING AND ERECTION NOTES
  BF1010 - JOIST REINFORCING DETAIL
  BF1020 - STEEL DECK HANDLING AND ERECTION
  BF1030 - STEEL ROOF DECK ERECTION NOTES
  BF1040 - RIDGE TIE PLATE
  BF1050 - ROOF DECK TERMINATION DETAILS
DECK ATTACHMENT DETAIL

2 x 2

GENERAL JOIST AND DECK NOTES

RECOMMENDATIONS FOR HANDLING AND ERECTING NBG STEEL JOISTS

1) CHECK QUANTITIES, MARK NUMBER, AND CONDITION OF JOIST AND ACCESSORIES ON ARRIVAL. NOTE ON THE DELIVERY TICKETS ANY SHORTAGES OR DISCREPANCES. NUCOR BUILDINGS GROUP WILL NOT BE LIABLE FOR ANY SHORTAGES OR DAMAGE NOTED.

2) WHEN UNLOADING BY CRANE, ALWAYS HOIST CHAINS OR SLING TO TOP OR BOTTOM CHORDS AT PANEL POINTS, PREFERABLY AT 1/3 POINTS. NEVER HOIST TO WEB MEMBERS OR JERK WHILE LIFTING. WHEN UNLOADING BY HAND, USE EXTREME CARE WHEN BREAKING BUNDLES AND UNLOAD EACH JOIST SEPARATELY.

3) STORE JOIST IN BUNDLES IN A VERTICAL POSITION ON WOOD BLOCKING PLACED AT PANEL POINTS. LIGHTER JOISTS SHOULD BE STACKED ON HEAVIER JOISTS IF MORE THAN ONE LAYER IS REQUIRED. STORE JOIST ON SIDES IF HEIGHT OF BUNDLE IS GREATER THAN TWICE IT'S WIDTH. JOIST FROM BROKEN BUNDLES SHOULD BE LAD TIED ON BLOCKING TO PREVENT SAGGING OF JOIST. COVER JOIST TO PROTECT PRIME COAT IF THEY ARE NOT ERECTED IMMEDIATELY.

4) ERECTION MUST BE DONE WITH PLANS NOTED “FOR CONSTRUCTION”. REFERENCE ERECTION DRAWINGS FOR ORIENTATION OF TAGGED ENDS OF JOISTS.

5) NUCOR BUILDINGS GROUP MUST BE NOTIFIED AT ONCE IF JOISTS AND/OR ACCESSORIES CANNOT BE ERECTED ACCORDING TO THE FINAL CONSTRUCTION PLANS. NUCOR BUILDINGS GROUP WILL NOT BE RESPONSIBLE FOR ANY FIELD REPAIRS OR CHANGES MADE WITHOUT PRIOR CONSENT.

6) DO NOT COMPLETELY WELD JOIST TO BEARING SUPPORT UNTIL PROPERLY ALIGNED, AS SOON AS THE JOIST IS IN POSITION, ONE END OF THE JOIST SHALL BE ATTACHED TO IT'S SUPPORT IN ACCORDANCE WITH THE NOTES BELOW. BEFORE ALLOWING THE WEIGHT OF AN ERECTOR ON THE JOIST, ALIGN THE JOISTS WHILE INSTALLING THE BRIDGING, DO NOT ATTEMPT TO ALIGN OR STRAIGHTEN JOIST IN GROUPS AFTER INSTALLATION AND PERMANENT ATTACHMENT TO THE BEARING SUPPORTS HAS BEEN MADE.

6a) JOISTS - ENDS OF JOISTS RESTING ON STEEL SUPPORTS SHALL BE CONNECTED THERE TO WITH A MINIMUM OF THE EQUIVALENT OF: SHORT SPAN - (2) 3/16" FILLET WELDS 2 1/2" LONG, OR WITH (2) 1/2" BOLTS; LONGSPAN - (2) 3/16" FILLET WELDS 2 1/2" LONG, OR WITH TWO 3/4" A325 BOLTS. WHEN BOLTED CONNECTIONS ARE USED, BOLTS MUST BE "SNUG TIGHTENED" PER THE LATEST AISC SPECIFICATION. THE NUCOR BUILDINGS GROUP CONSTRUCTION DRAWINGS SHOULD BE REVIEWED TO DETERMINE WHETHER ADDITIONAL WELDING IS REQUIRED DUE TO SPECIAL CONDITIONS.

6b) BOTH ENDS OF ALL STEEL JOISTS OR COLD-FORMED JOISTS SHALL BE FULLY BOLTED AND/OR WELDED TO THE SUPPORT STRUCTURE BEFORE:
   a) RELEASING THE HOISTING CABLES;
   b) ALLOWING AN EMPLOYEE ON THE JOISTS; OR
   c) ALLOWING ANY CONSTRUCTION LOADS ON THE JOISTS.

7) THE ERECTION STABILITY AND HANDLING REQUIREMENTS FOR K-SERIES AND L-SERIES STEEL JOISTS ARE REFLECTED IN THE LATEST AISC SPECIFICATION.

8) NUCOR BUILDINGS GROUP JOISTS ARE FABRICATED TO MEET THE ERECTION REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA). FIELD COMPLIANCE WITH THIS ACT IS NECESSARY. PER OSHA REQUIREMENTS, ALL JOISTS WITH A SPAN OF 40'-0" OR LONGER, AS WELL AS THE JOISTS LISTED IN THE CHART BELOW, ARE TO HAVE A ROW OF BOLTED DIAGONAL BRIDGING INSTALLED PRIOR TO SLACKENING THE HOISTING CABLES. ALL BRIDGING BOLTS ARE TO BE INSTALLED "SNUG TIGHTENED" PER THE LATEST AISC SPECIFICATION.

9) HORIZONTAL BRIDGING FOR WELDED CONNECTIONS ARE SHIPPED IN 20'-0" LENGTHS. HORIZONTAL BRIDGING FOR BOLTED CONNECTIONS WILL BE CUT TO LENGTH. ALL HORIZONTAL BRIDGING SHALL HAVE A STANDARD 3" LAP WITH A MINIMUM OF: SHORTSPAN/LONGSPAN - 3/16" FILLET WELD 1" LONG OR (1) 3/8" BOLT.

10) DO NOT CUT AWAY ANY CHORDS OR WEB.

11) JOIST CHORDS ARE NOT DESIGNED FOR CONCENTRATED LOADS. EITHER PLACE LOADS AT PANEL POINTS OR FIELD WELD AN EXTRA MEMBER FROM POINT OF LOAD TO NEAREST PANEL POINT ON OPPOSITE CHORD AT NO EXPENSE TO NUCOR BUILDINGS GROUP. SEE SPECIFIC DETAILS ON THESE DRAWINGS.

12) CONTRACTOR SHALL PROVIDE MEANS FOR ADEQUATE DISTRIBUTION OF CONCENTRATED LOADS SO THAT THE CARRYING CAPACITY OF ANY JOIST IS NOT EXCEEDED. DO NOT APPLY ANY LOADS TO JOISTS UNTIL ALL BRIDGING IS COMPLETELY INSTALLED AND JOISTS ARE PERMANENTLY FASTENED INTO PLACE.

13) METAL DECK OR CENTERING MUST BE ATTACHED TO THE TOP CHORD OF THE JOIST AT MAXIMUM OF 36" TO PROVIDE THE REQUIRED PERMANENT LATERAL BRACING. FOLLOW THE MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION OF DECK OR CENTERING. SEE DECK ATTACHMENT DETAIL.

14) FIELD WELDING SHALL NOT DAMAGE JOISTS.

15) ERECT BOTTOM CHORD BEARING JOIST WITH CAMBER UPWARD.

16) ONLY MATCHED HALVES OF BOLTED FIELD SPICED JOISTS ARE TO BE BOLTED TOGETHER. REFERENCE INSTRUCTIONS PROVIDED ON NUCOR BUILDINGS GROUP CONSTRUCTION DRAWINGS.

17) NO HOLES ARE PROVIDED IN THE JOISTS FOR THE ATTACHMENT OF OTHER TRADES AND ARE DESIGNED AS SUCH.

18) IT IS RECOMMENDED THAT CFR BUNDLES BE PLACED DIRECTLY ABOVE THE RIGID FRAMES AS STATED IN THE NUCOR BUILDINGS GROUP CFR ERECTION MANUAL.

* THESE ARE GENERAL NOTES ONLY. IF A DISCREPANCY EXISTS BETWEEN THE FINAL PLANS FOR FIELD USE AND THESE NOTES, THEN THE FINAL PLANS TAKE PRECEDENCE.

UNDER NO CIRCUMSTANCES ARE DECK BUNDLES OR CONSTRUCTION LOADS OF ANY DESCRIPTION TO BE PLACED ON UNBRIDGED JOISTS.

<p>|</p>
<table>
<thead>
<tr>
<th>SHORT SPAN (K-series joists)</th>
<th>LONG SPAN (L-series joists)</th>
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<tbody>
<tr>
<td>Only one must be installed</td>
<td>Two rows must be installed</td>
</tr>
<tr>
<td>8K thru 12K</td>
<td>16K thru 24L</td>
</tr>
<tr>
<td>23 feet</td>
<td>33 feet</td>
</tr>
<tr>
<td>14K thru 16K</td>
<td>28L and up</td>
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<tr>
<td>27 feet</td>
<td>40 feet</td>
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<tr>
<td>18K thru 20K</td>
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<td>31 feet</td>
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</tr>
<tr>
<td>22K thru 24K</td>
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<tr>
<td>34 feet</td>
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<tr>
<td>26K</td>
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<tr>
<td>38 feet</td>
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<tr>
<td>28K</td>
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<tr>
<td>40 feet</td>
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Detailer Notes:

1) N/A
GENERAL JOIST AND DECK NOTES

BF1010 - JOIST REINFORCING DETAIL
Download the DWG file by clicking here.

NOTES:
1. A MAXIMUM OF 100 POUNDS CAN BE PLACED ANYWHERE ON JOISTS CHORDS BEFORE ADDING REINFORCING ANGLES, PROVIDED THE LOAD IS ACCOUNTED FOR IN THE ORIGINAL UNIFORM COLLATERAL DEAD LOAD.
2. NO HOLES MAY BE DRILLED IN CHORD ANGLES.
3. LOADS MUST BE EQUALLY SUPPORTED BY BOTH CHORD ANGLES.
4. DO NOT EXCEED 80 POUNDS MAXIMUM FOR ANY LOAD HANGING FROM A PIPE CLAMP FROM ONE ANGLE OF THE TOP OR BOTTOM CHORD.
5. A POINT LOAD GREATER THAN 100 POUNDS BUT LESS THAN 500 POUNDS MUST BE APPLIED AT A POINT OR HAVE EXTRA WEB MEMBERS TRANSFERRING THE LOAD TO WITHIN 3" OF THE OPPOSITE CORD PANEL POINT. THE ERECTOR IS RESPONSIBLE FOR OBTAINING AND FIELD INSTALLING THE EXTRA REINFORCED ANGLE. LOADS OVER 500 POUNDS SHOULD NOT BE INSTALLED UNTIL AUTHORIZED BY METAL BUILDING SUPPLIER.

JOIST REINFORCING DETAIL

Detailer Notes:
1) THIS DETAIL IS REQUIRED ON ALL JOIST PROJECTS
2) NUCOR BUILDINGS GROUP DOES NOT NEED TO PROVIDE ANGLE FOR THIS DETAIL ANY LONGER.

Issued : 07.24.20 (2020.008) CERTIFIED ERECTION DETAILS Detail Size (W x H) : 1 x 1
Issued By : WME
RECOMMENDATIONS FOR HANDLING AND ERECTING OF
NBG STEEL DECK*

1) CHECK QUANTITIES OF DECK AND ACCESSORIES ON ARRIVAL. NOTE ON THE DELIVERY TICKET ANY
SHORTAGES OR DISCREPANCIES. NUCOR BUILDINGS GROUP WILL NOT BE LIABLE FOR ANY SHORTAGES OR
DAMAGE NOT NOTED.

2) WHEN UNLOADING NUCOR BUILDINGS GROUP STEEL DECK USE CARE TO AVOID ANY DAMAGE TO THE
MATERIAL. NUCOR BUILDINGS GROUP IS NOT RESPONSIBLE FOR DAMAGE INCURRED WHILE UNLOADING.

3) NUCOR BUILDINGS GROUP STEEL DECK SHOULD BE STORED OFF THE GROUND WITH ONE END ELEVATED
TO PROVIDE DRAINAGE. A WATERPROOF COVER SHOULD BE PROVIDED WITH PROPER VENTILATION TO
AVOID CONDENSATION.

4) DECK BUNDLES USUALLY WEIGH 4000 POUNDS. CARE MUST BE TAKEN TO AVOID OVERLOADING OF
STRUCTURAL ELEMENTS WHEN PLACING BUNDLES ON THE ROOF OR FLOOR.

5) DO NOT USE NUCOR BUILDINGS GROUP STEEL DECK AS A WORKING PLATFORM UNTIL THE DECK IS
WELDED IN PLACE. LOOSE DECK SHEETS SHALL BE SECURED TO PREVENT THE WIND FROM DISPLACING
THE SHEETS AND CAUSING INJURY TO PERSONS OR PROPERTY.

6) NUCOR BUILDINGS GROUP STEEL DECK SHALL BE ERECTED WITH A MINIMUM BEARING OF 1 1/2” UNLESS
OTHERWISE SHOWN.

7) CUTTING AND FRAMING OF OPENINGS NOT SHOWN ON NUCOR BUILDINGS GROUP ERECTION DRAWINGS
SHALL BE THE RESPONSIBILITY OF THE TRADES INVOLVED.

8) SKEW CUTS SHALL BE THE RESPONSIBILITY OF THE DECK ERECTOR.

9) ALL CONSTRUCTION LIVE LOADS DURING ERECTION, ROOFING, OR POURING OF CONCRETE MUST BE
DISTRIBUTED APPROPRIATE MEANS TO PREVENT DAMAGE TO NUCOR BUILDINGS GROUP STEEL DECK AS
WELL AS ALL STRUCTURAL COMPONENTS.

10) WHEN USING NUCOR BUILDINGS GROUP STEEL DECK WITH INTERLOCKING SIDELAPS, CORRECTLY ALIGN
SHEETS TO OBTAIN PROPER COVERAGE. DO NOT BUTTON-PUNCH SIDELAPS UNTIL ALL DECK IS WELDED IN
PLACE.

11) NUCOR BUILDINGS GROUP 1.5C AND 1.5VLR DECK IS BUNDLED “UPSIDE-DOWN” AND MUST BE INVERTED
WHEN IT IS ERECTED.

12) THE ENDS OF NUCOR BUILDINGS GROUP COMPOSITE DECK SHALL BE BUTTED (NOT LAPPED) TO FACILITATE
THE USE OF STUDS WHEN REQUIRED.

13) IF STUDS ARE BEING APPLIED THROUGH THE DECK ONTO THE STRUCTURAL STEEL, THE STUD WELDS CAN
BE USED TO REPLACE THE PUDDLE WELDS.

14) NUCOR BUILDINGS GROUP DECK ACCESSORIES ARE TO BE POSITIVELY ATTACHED BY WELDING, SCREWING,
OR BUTTON-PUNCHING AS FOLLOWS:
   A) POUR STOP AT 12” ON CENTER.
   B) GIRDLE FILLERS AND SPLIT DECK SHEETS AT 18” ON CENTER.
   C) END CLOSURES AT 36” ON CENTER.
   D) SUMP PANS AT 6” ON CENTER.
   E) FLAT, RIDGE AND VALLEY PLATE AT 12” ON CENTER.

15) NUCOR BUILDINGS GROUP STEEL DECK IS FABRICATED AND PAINTED IN ACCORDANCE WITH SDI
SPECIFICATIONS AND TOLERANCES. THE STANDARD FACTORY APPLIED PAINT FOR DECK IS A PRIMER PAINT
AND IS NOT INTENDED TO WEATHER FOR AN EXTENDED PERIOD OF TIME. FIELD PAINTING, TOUCH-UP
ABRASIONS AND DETERIORATION OF THE PRIMER COAT OR OTHER PROTECTIVE FINISHES ARE THE
RESPONSIBILITY OF THE BUILDER. NUCOR BUILDINGS GROUP DOES NOT OFFER WARRANTIES FOR DECK.

*THESE ARE GENERAL NOTES ONLY. IF A DISCREPANCY EXISTS BETWEEN THE FINAL PLANS FOR FIELD USE
AND THESE NOTES, THE THE FINAL PLANS TAKE PRECEDENCE.

Detailer Notes:
1) N/A
BF1030 - STEEL ROOF DECK ERECTION NOTES

Download the DWG file by clicking here.

**ENGINEER NOTE:** PARTIAL SHEETS SHOULD BE ATTACHED IN EVERY FLUTE. END LAPS TO OCCUR AT SUPPORTS ONLY, MINIMUM 3" LAP.

**1/3 POINT PATTERN**

**1.5B AND 1.5F DECK**

**.6C DECK**

**DECK INFORMATION**

<table>
<thead>
<tr>
<th>TYPE</th>
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<tr>
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<tr>
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**SIDE LAP FASTENERS**

- H1060

**WELD LOCATIONS:**

- 1.5B-5/8" Ø PUDDLE WELD
- 1.5F-5/8" Ø PUDDLE WELD
- 0.6C-3/8" Ø PUDDLE WELD WITH WELD WASHERS

(NOTE: * WELD WASHERS SHOULD BE 16 GA WITH 3/8" DIAMETER HOLES).

**CERTIFIED ERECTION DETAILS**

**Issue**: 07.24.20 (2020.008)  
**Issued By**: WME

**Detailer Notes:**

1) DETAIL BF1030 IS NOT TO BE USED BY NBGUT. CONSULT DESIGN ENGINEER FOR ALTERNATIVE DECK MATERIAL AND FASTENER REQUIREMENTS.

2) THIS DETAIL UTILIZES ATTRIBUTES. TO ACCESS ATTRIBUTES DOUBLE CLICK ON THE DETAIL.
BF1040 - RIDGE TIE PLATE

Download the DWG file by clicking here.

**Detailer Notes:**

1) THIS DETAIL SHOULD ONLY BE USED WHEN SPECIFIED BY THE ENGINEER IN THE DESIGN PACKET
ROOF DECK TERMINATION DETAILS

DECK SUPPLIED BY NUCOR BUILDINGS GROUP
FINISHED ROOFING MATERIALS BY OTHERS
SEE “STEEL ROOF DECK ERECTION NOTES” FOR FASTENER REQUIREMENTS

BF1050

Detailer Notes:
1) ADD THIS DETAIL TO DRAWING SET WHEN SUPPLYING ROOF DECK ONLY (FINISHED ROOFING MATERIALS BY OTHERS)
2) U.N.O. IN CONTRACT, END OF ROOF DECK TERMINATES AT STEEL LINE AS SHOWN ABOVE.

Issued: 07.24.20 (2020.008)  CERTIFIED ERECTION DETAILS  Detail Size (W x H): 1 x 1
Issued By: WME