

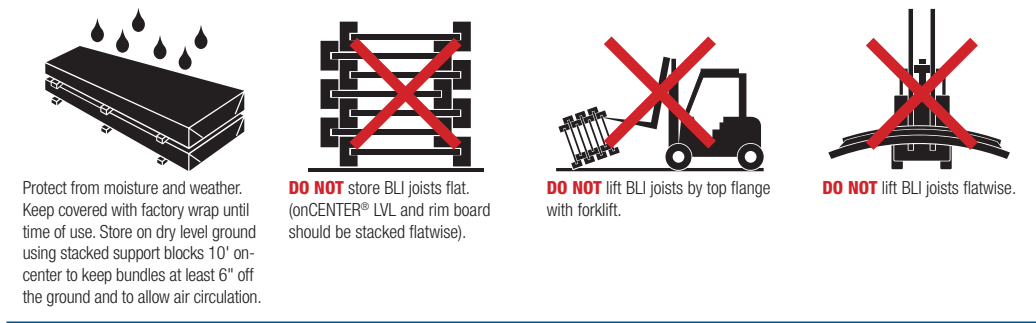
# onCENTER®

## BlueLinx Engineered Products

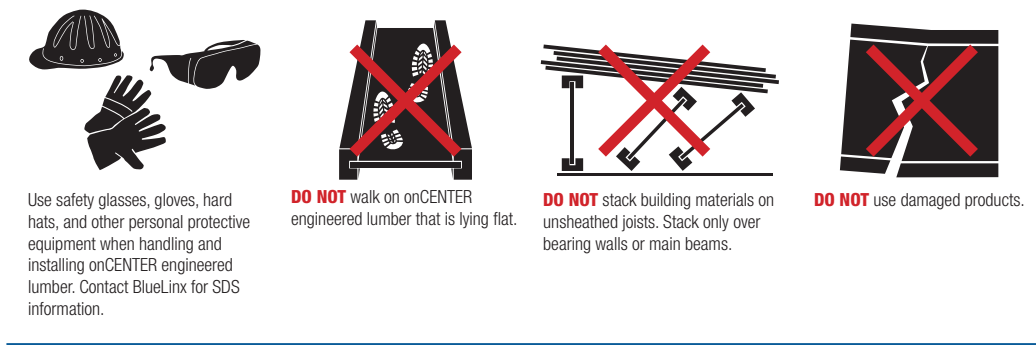
### INSTALLATION GUIDE

#### Residential Floor & Roof Systems

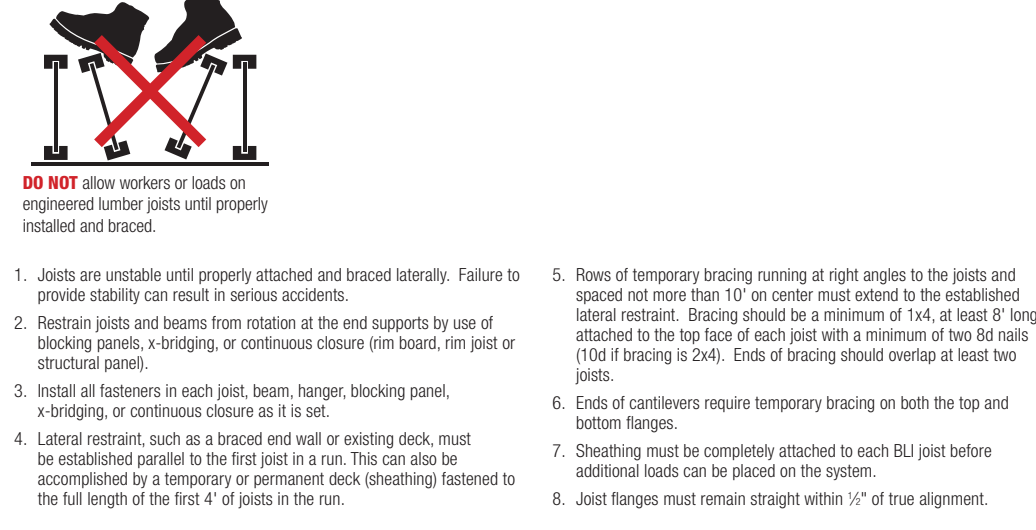
### STORAGE & HANDLING



### SAFETY PRECAUTIONS



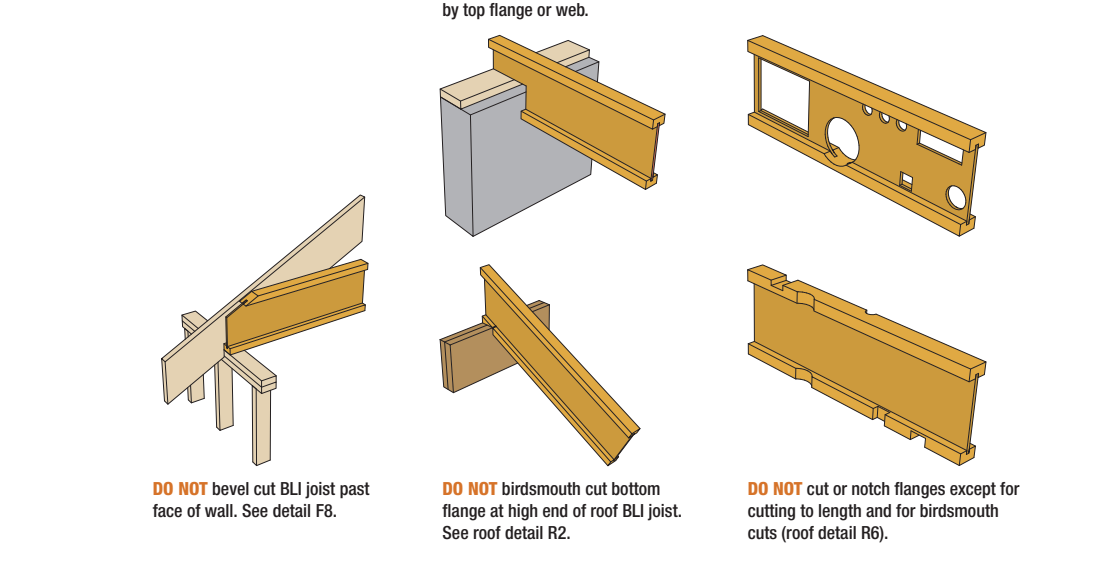
### BRACING REQUIREMENTS



### INSTALLATION NOTES

- BlueLinx onCENTER joists must be protected from weather and used only in covered dry conditions...
- BU joists must be supported by the bottom flange on walls or beams or hangers...
- For BU joists, minimum end-bearing length is 11"; minimum intermediate bearing length is 10".
- BU joists and LVL must be restrained from rotation at ends and each support...
- For BU joists, minimum end-bearing length is 11"; minimum intermediate bearing length is 10".
- When not specified in this guide, common, box or anchors must be used.
- When nailing to the wide flange of BU joist flanges, maintain spacing within the following ranges:
- Minimum Spacing and Distance for Joists Installed into onCENTER LVL

### INSTALLATION CAUTIONS



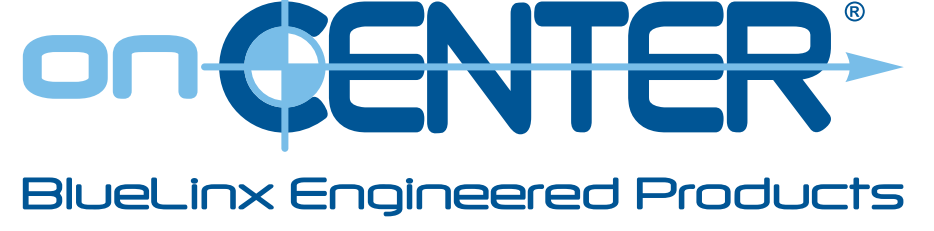
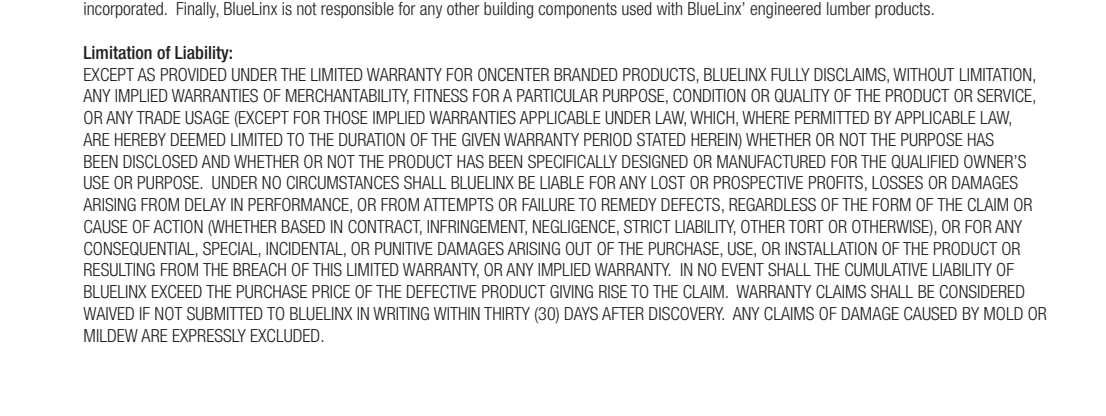
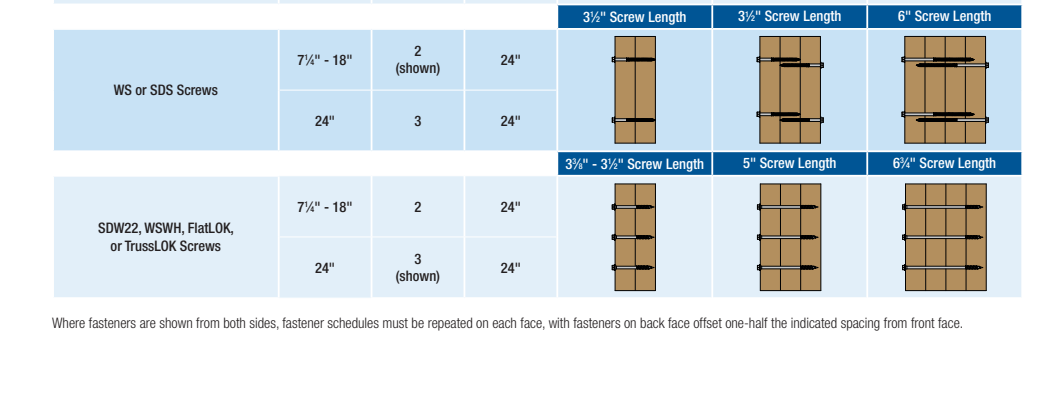
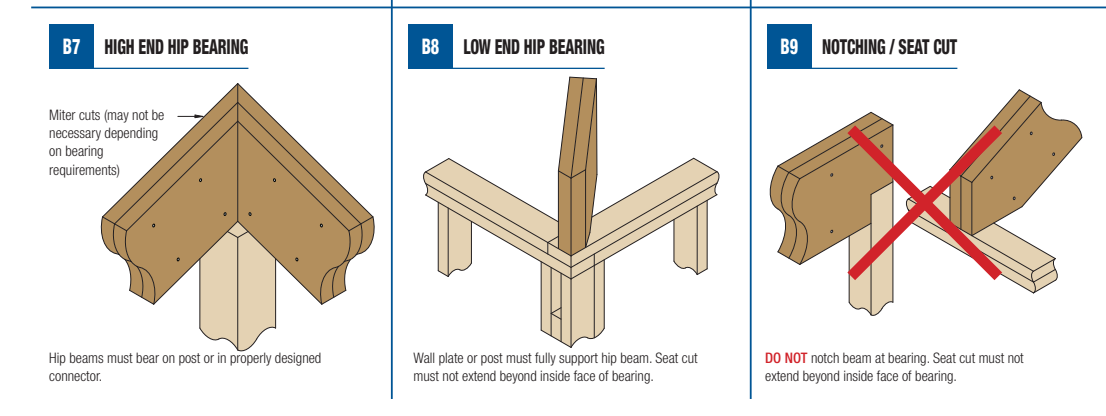
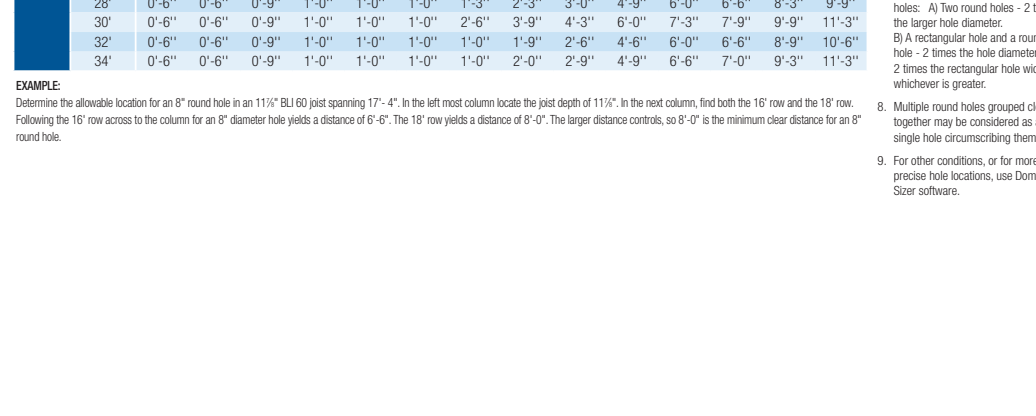
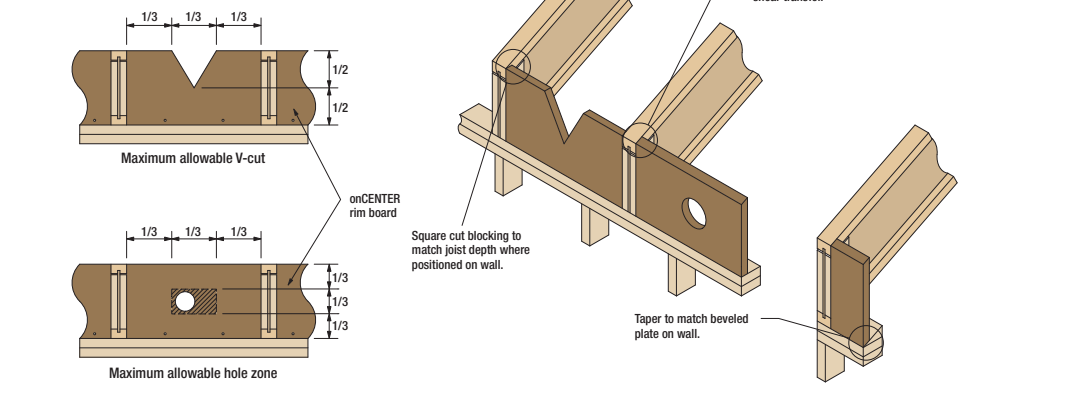
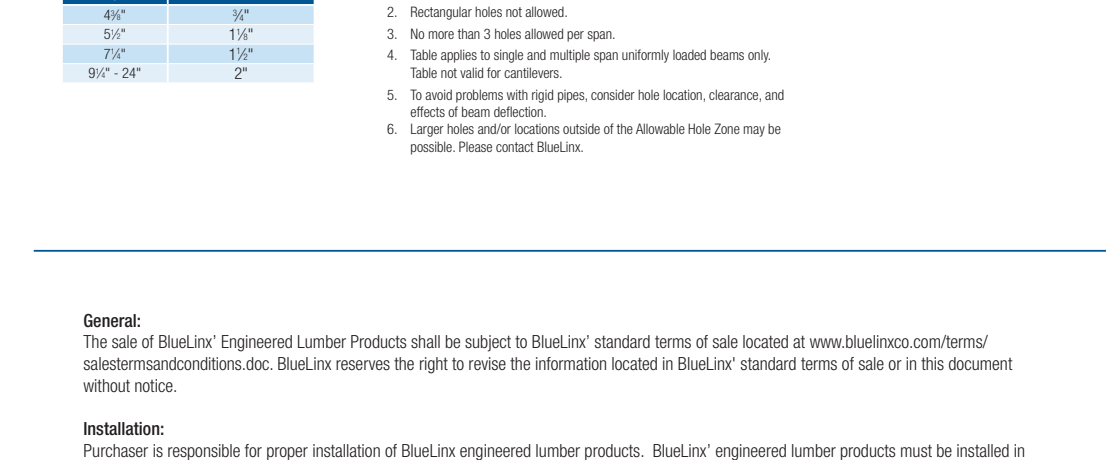
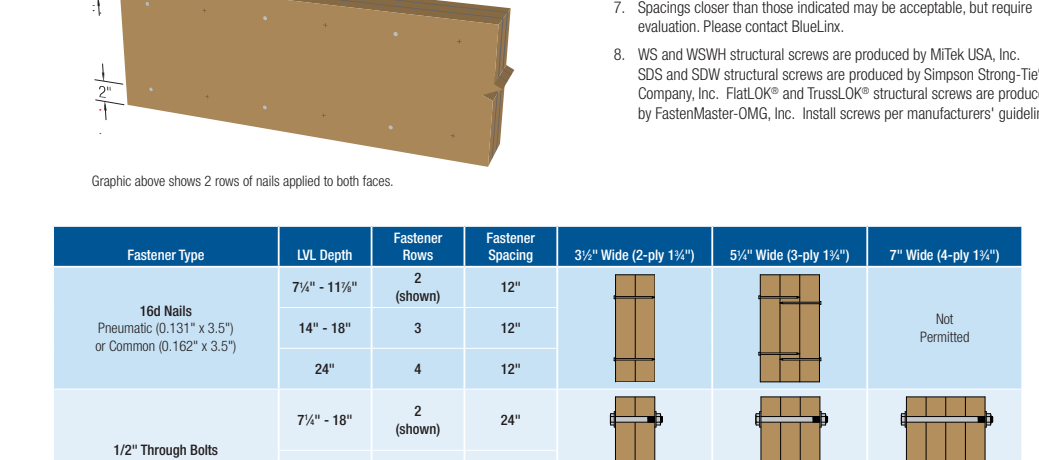
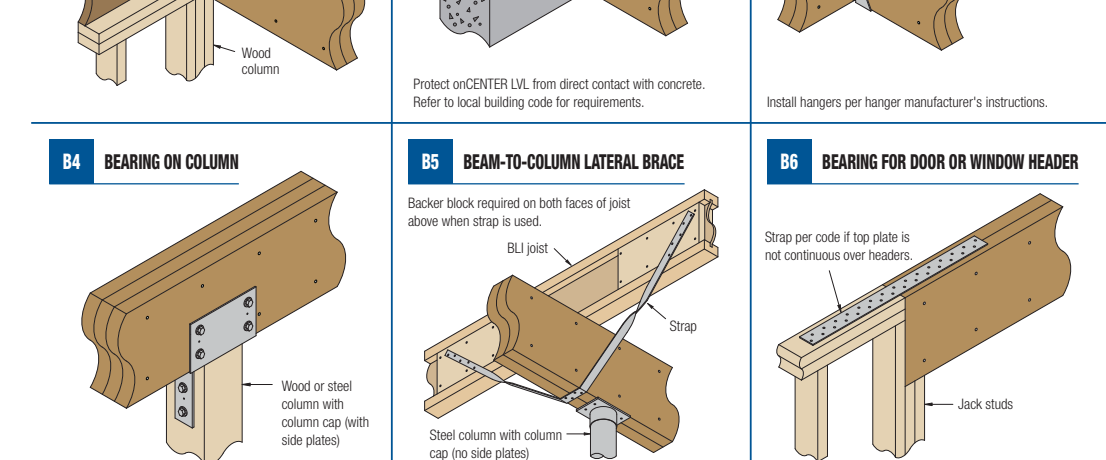
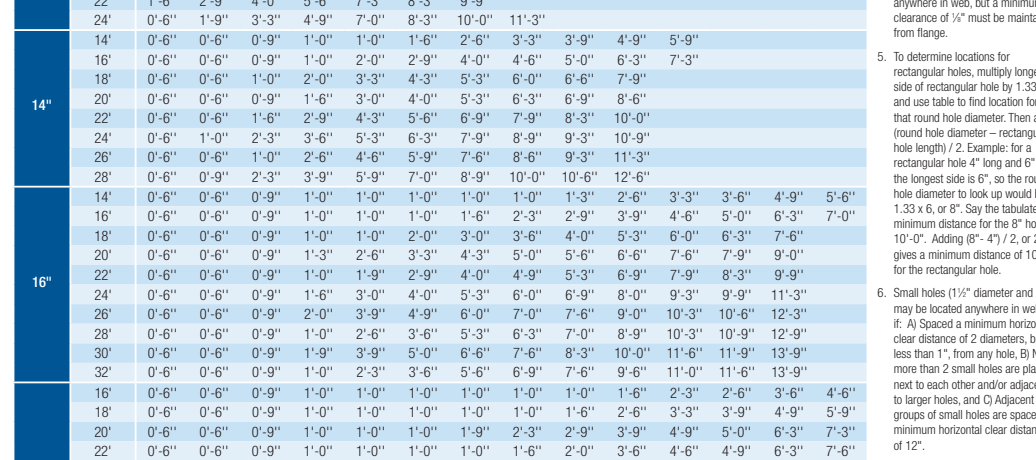
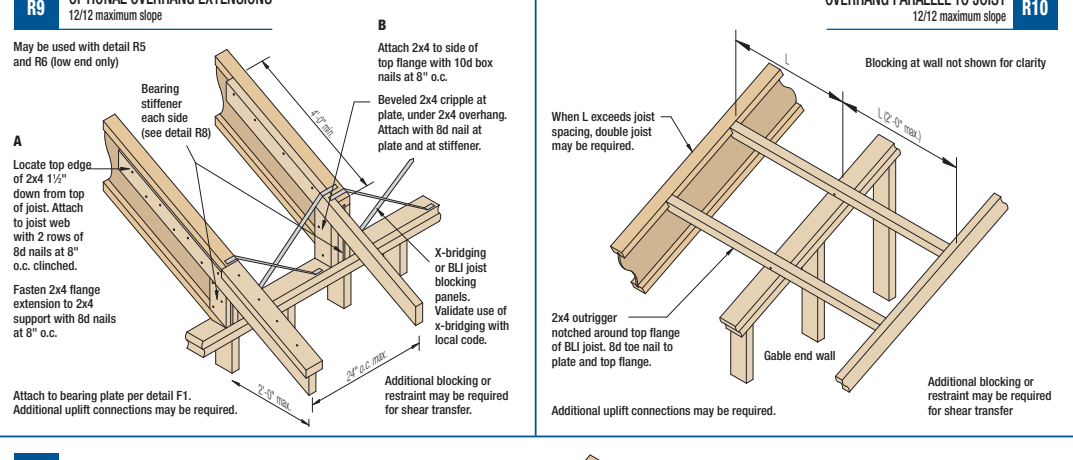
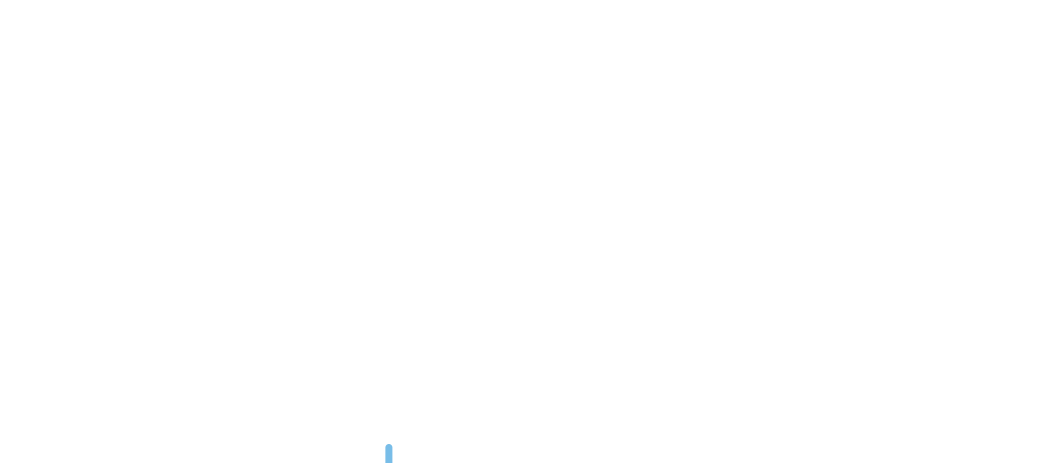
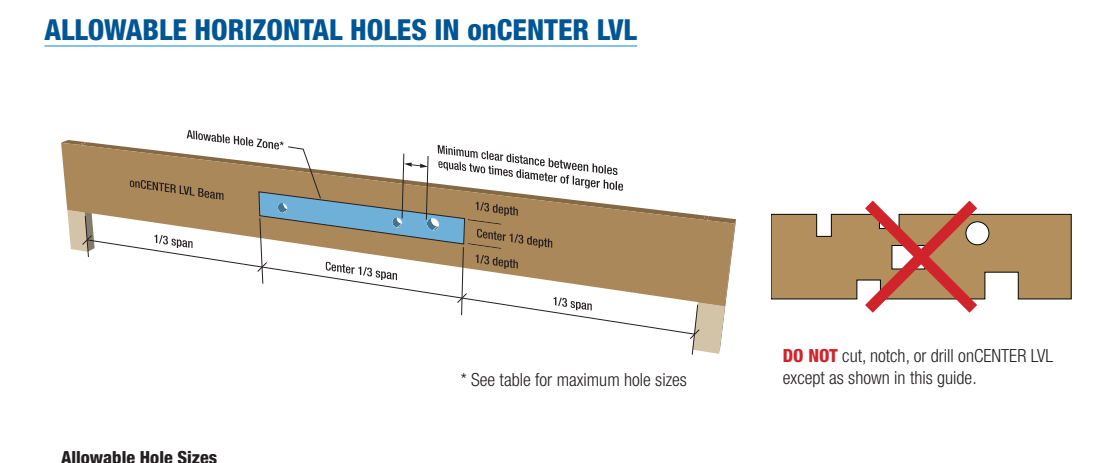
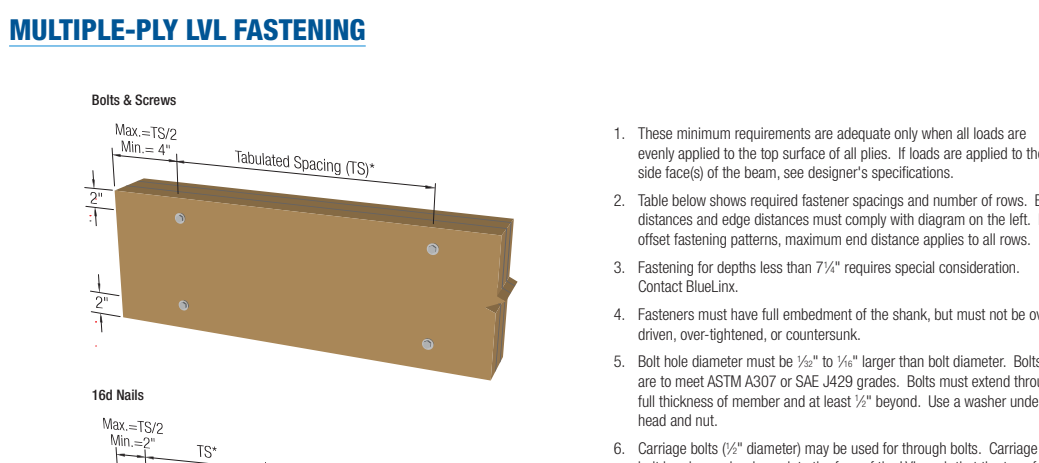
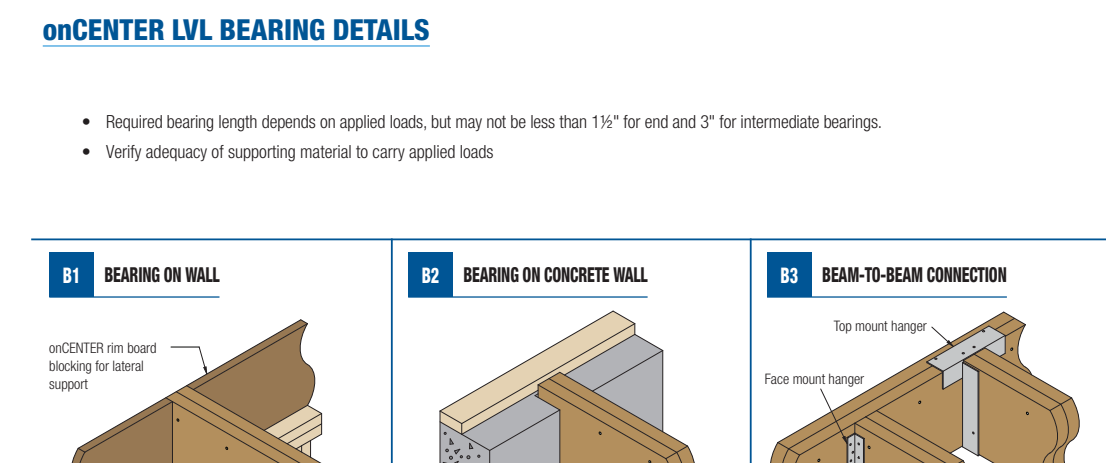
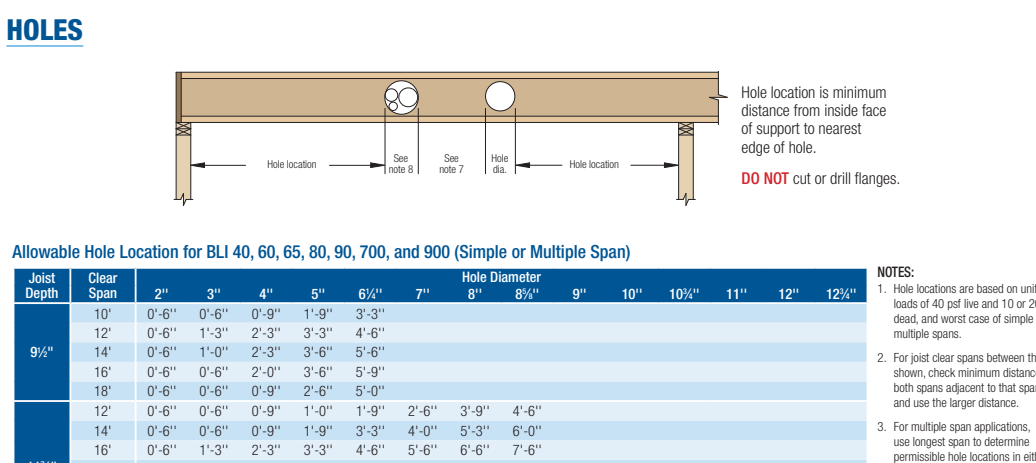
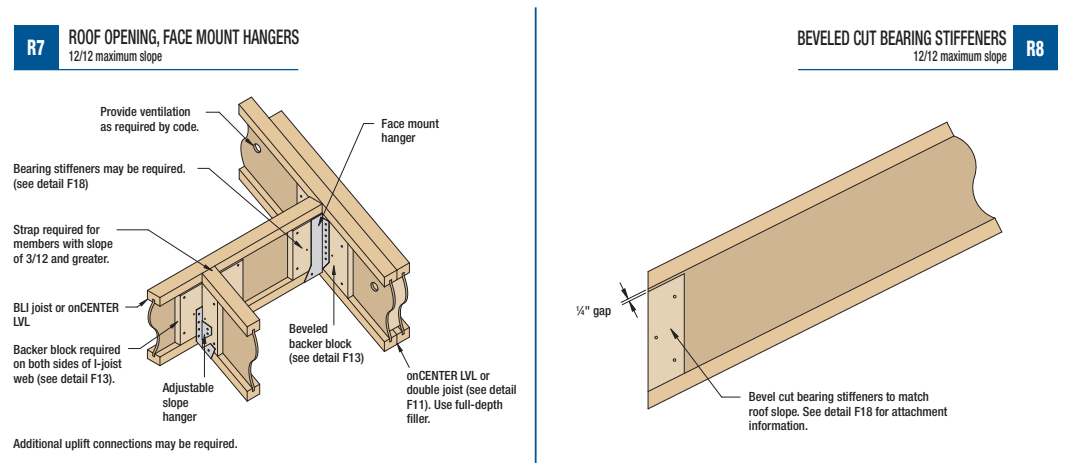
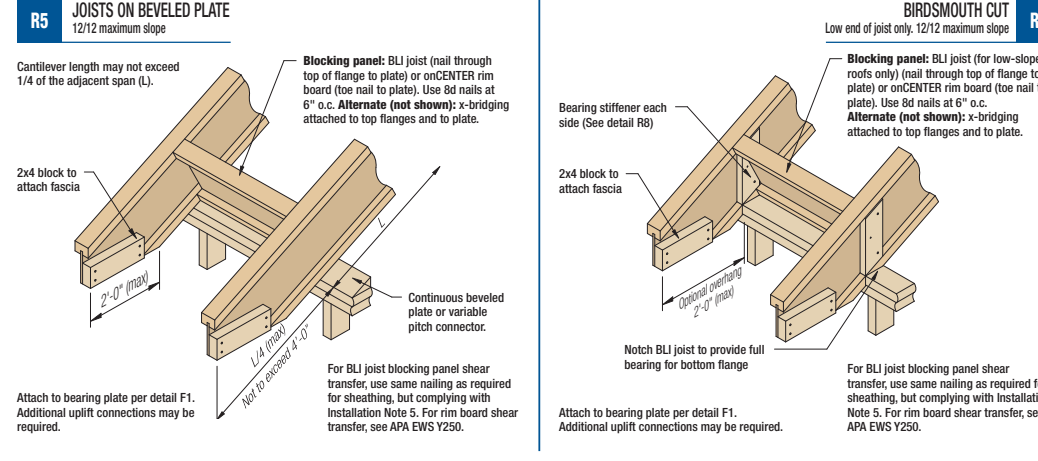
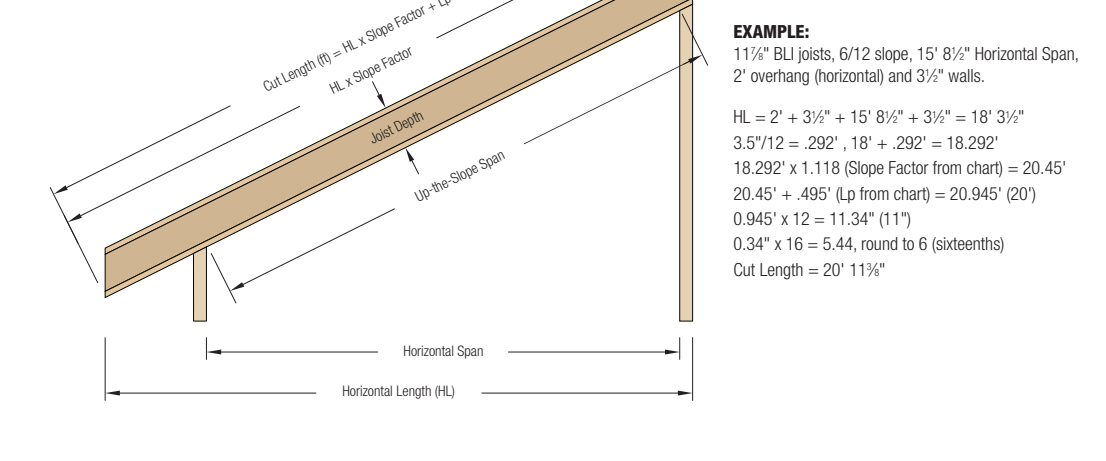
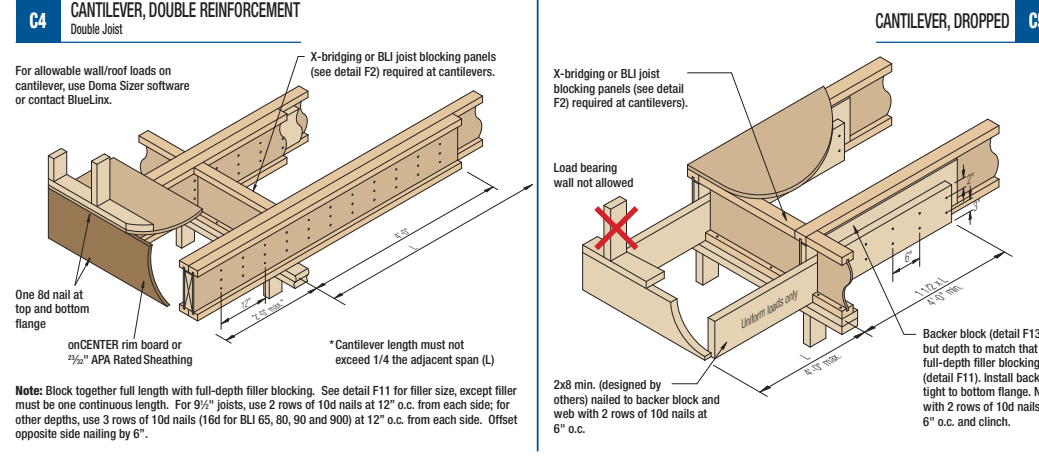
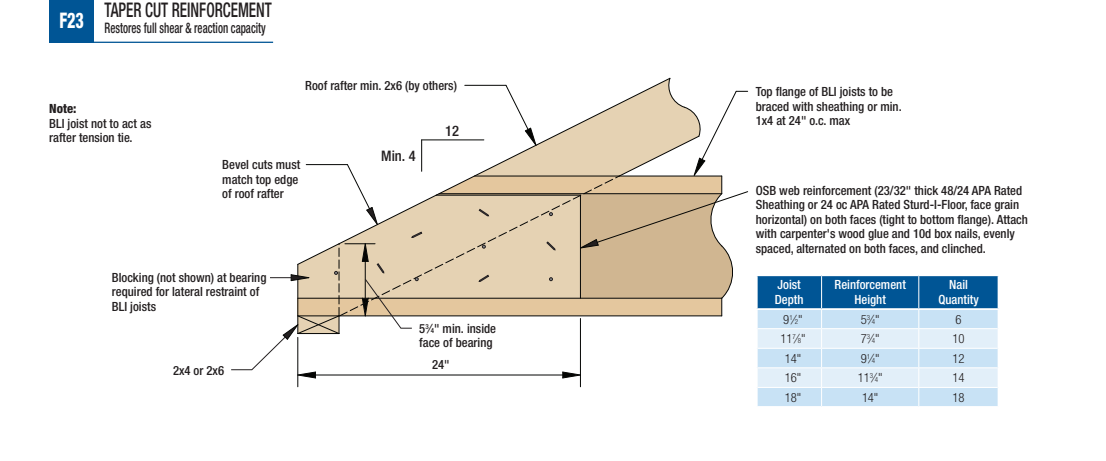
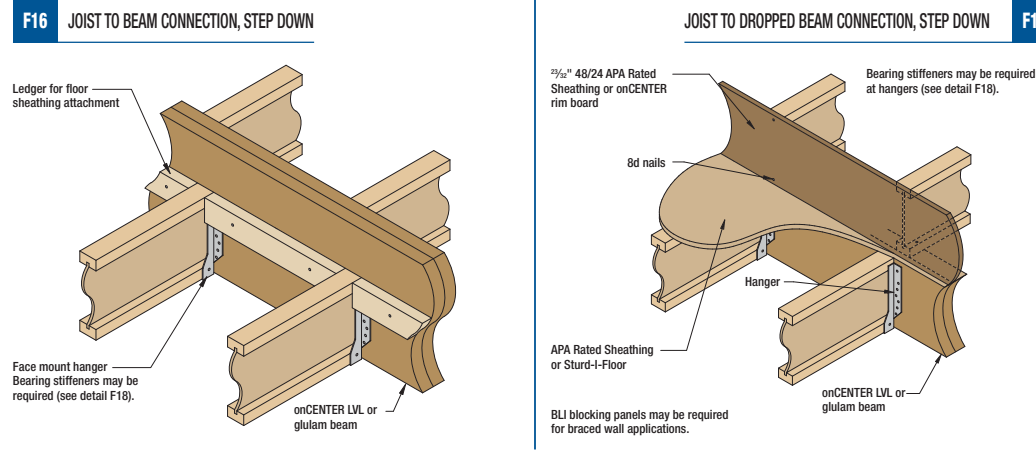
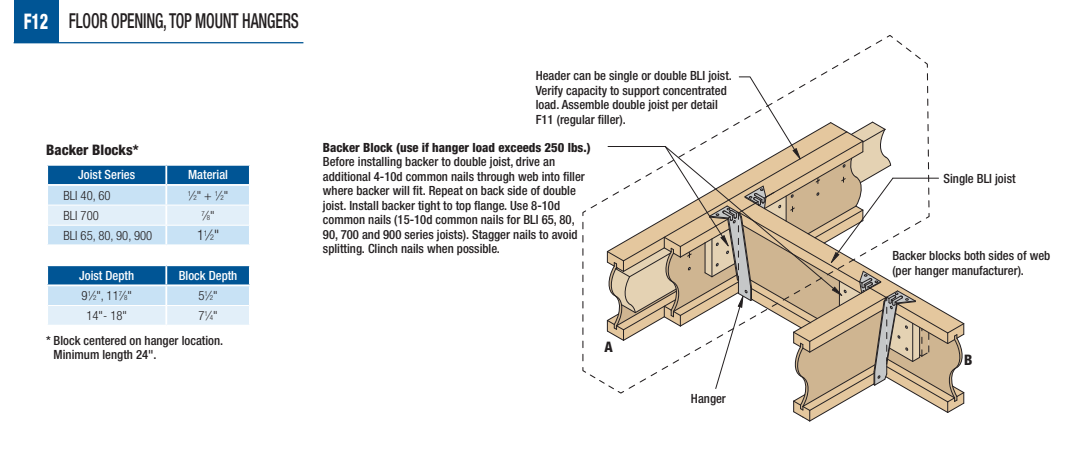
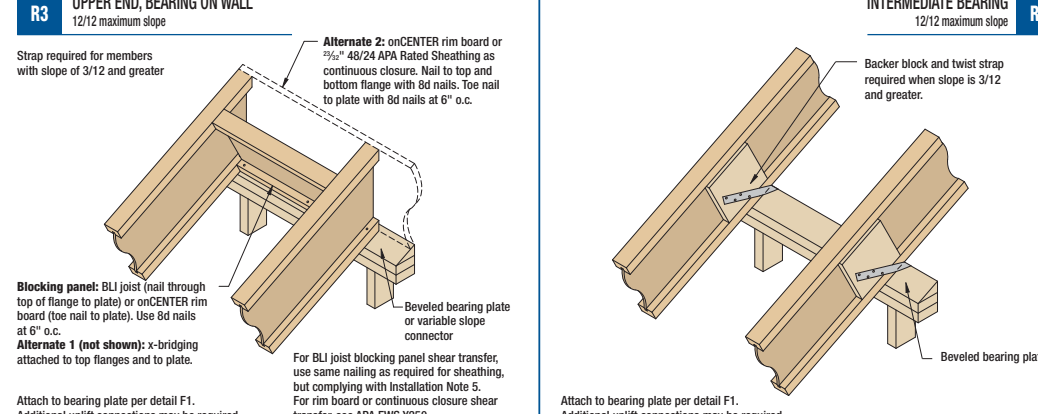
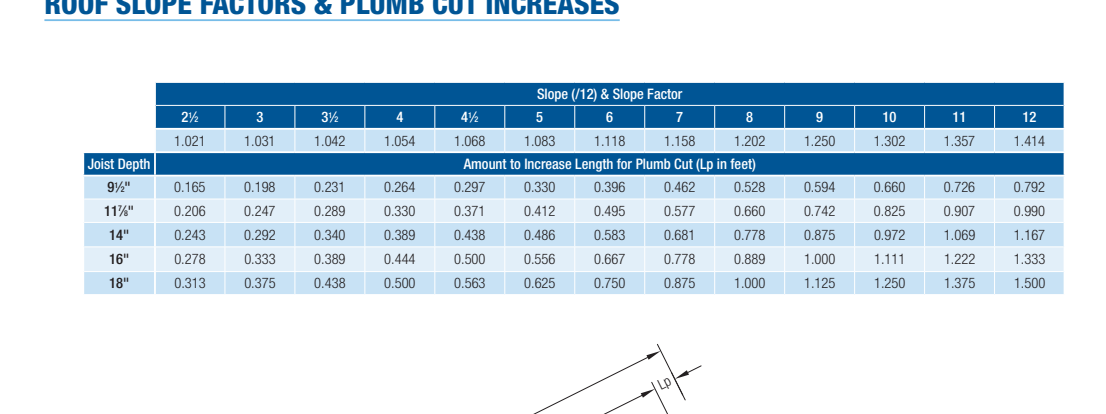
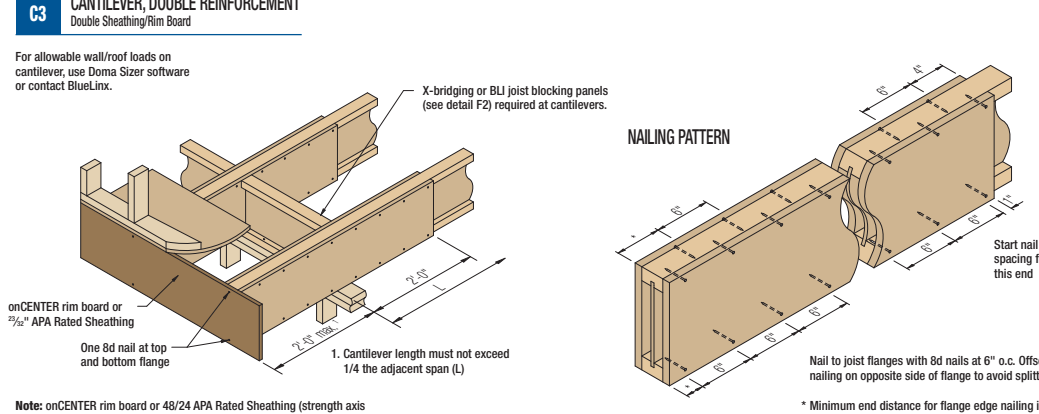
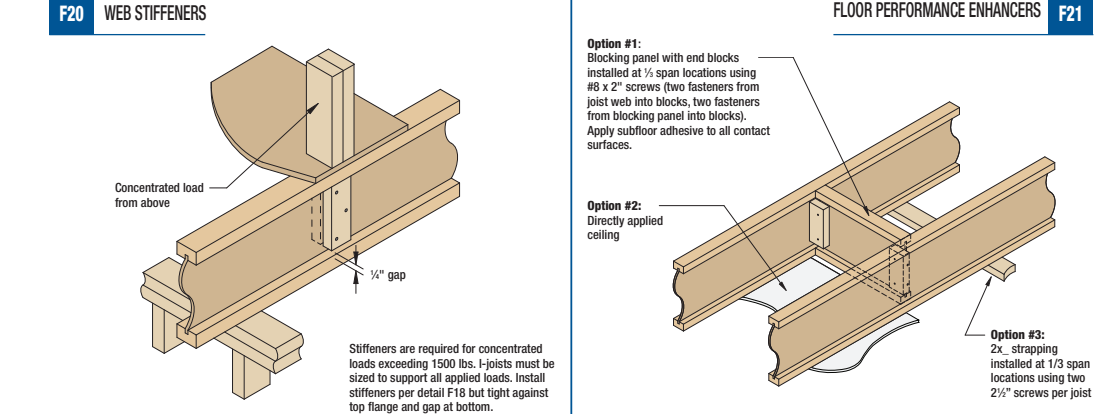
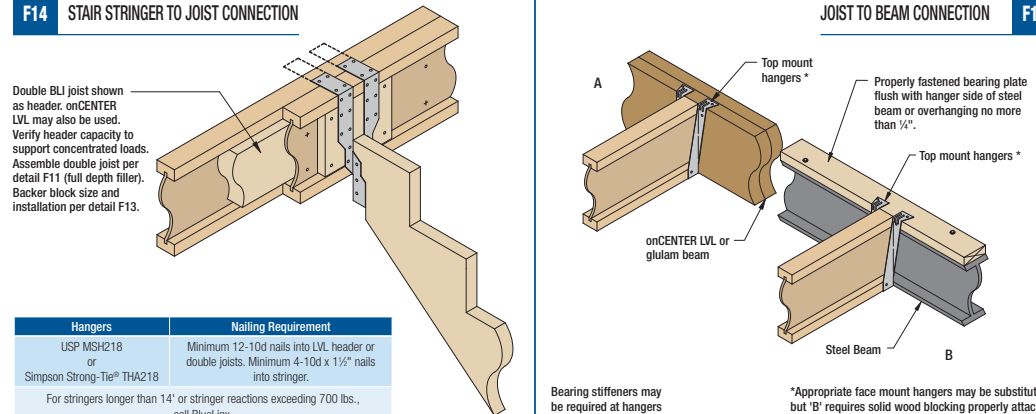
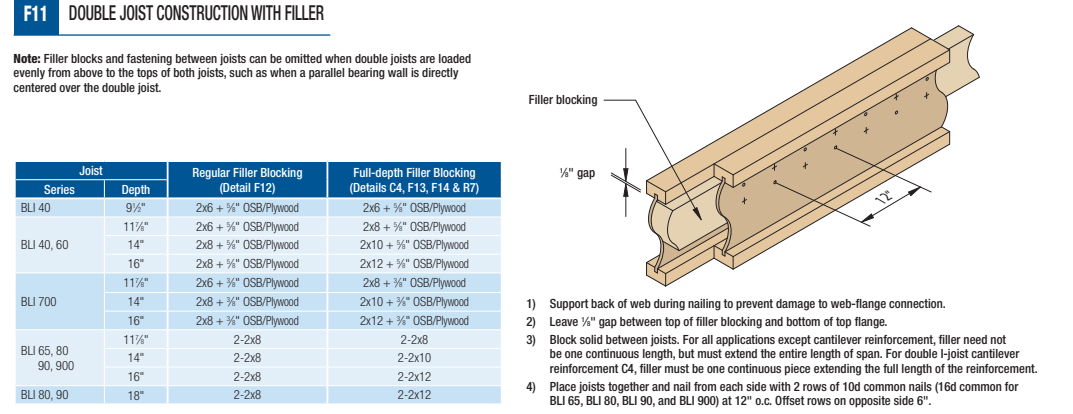
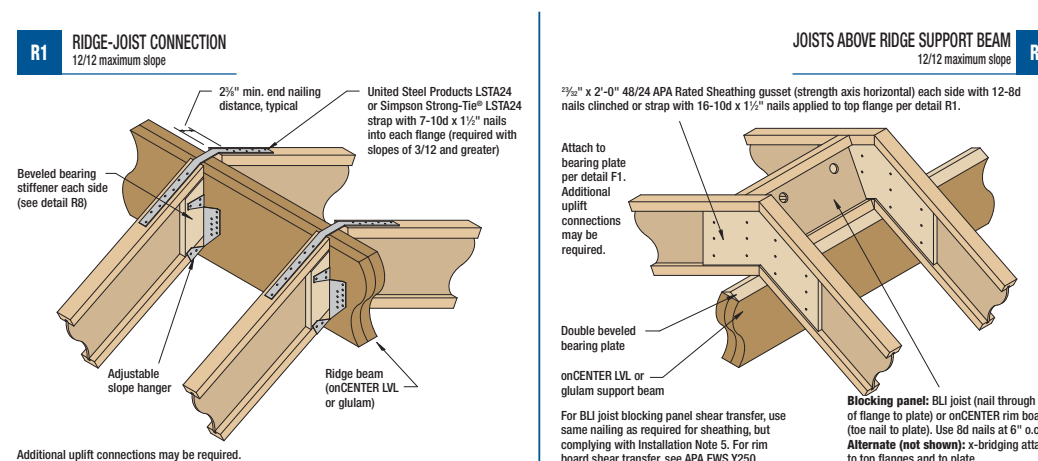
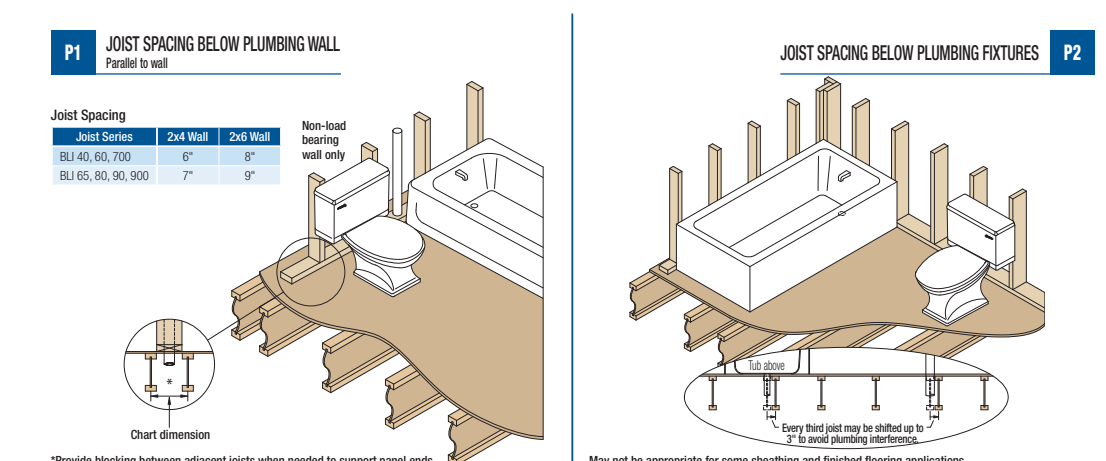
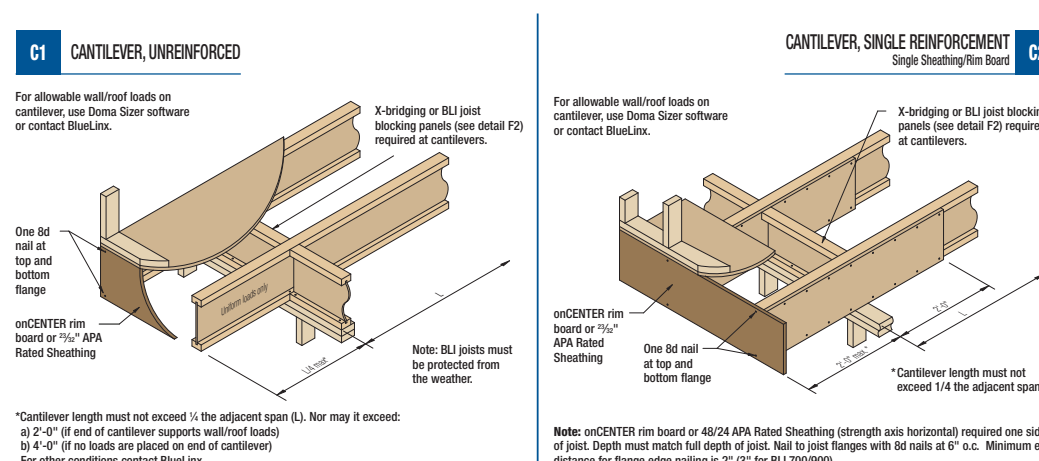
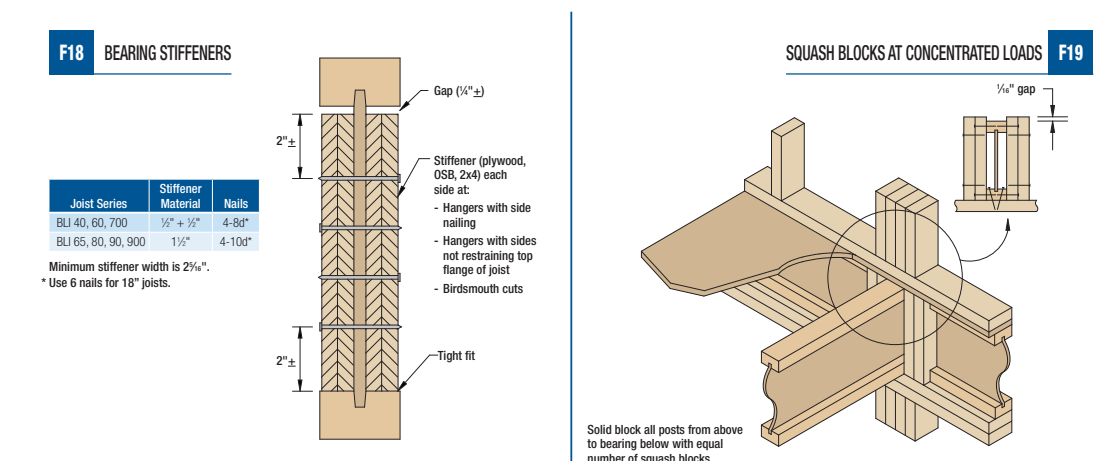
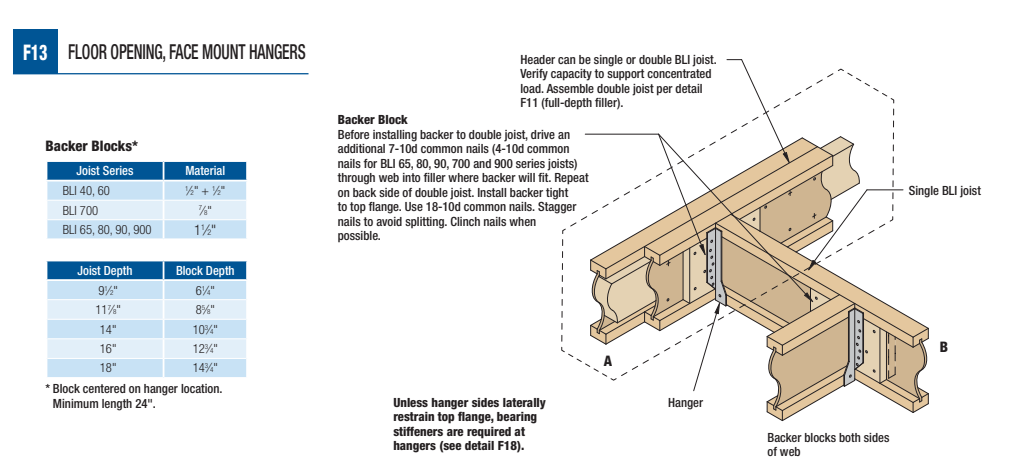
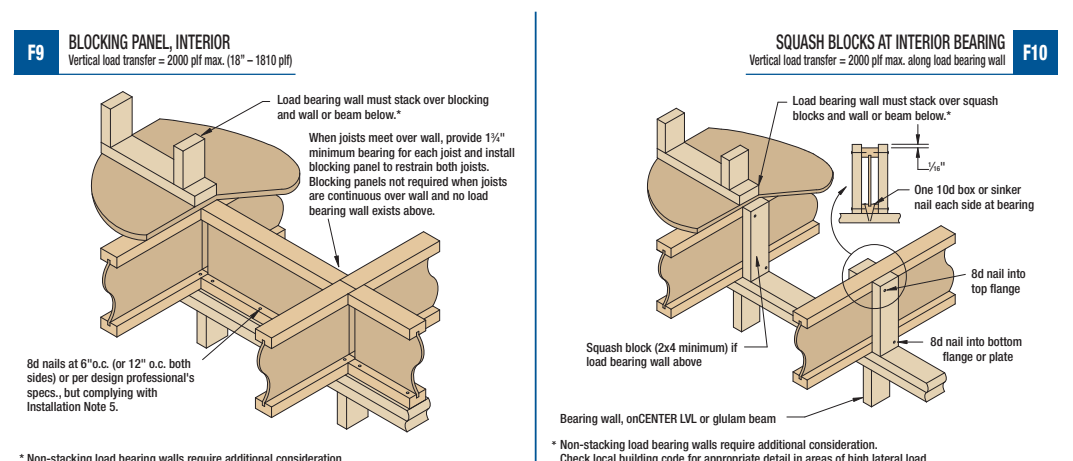
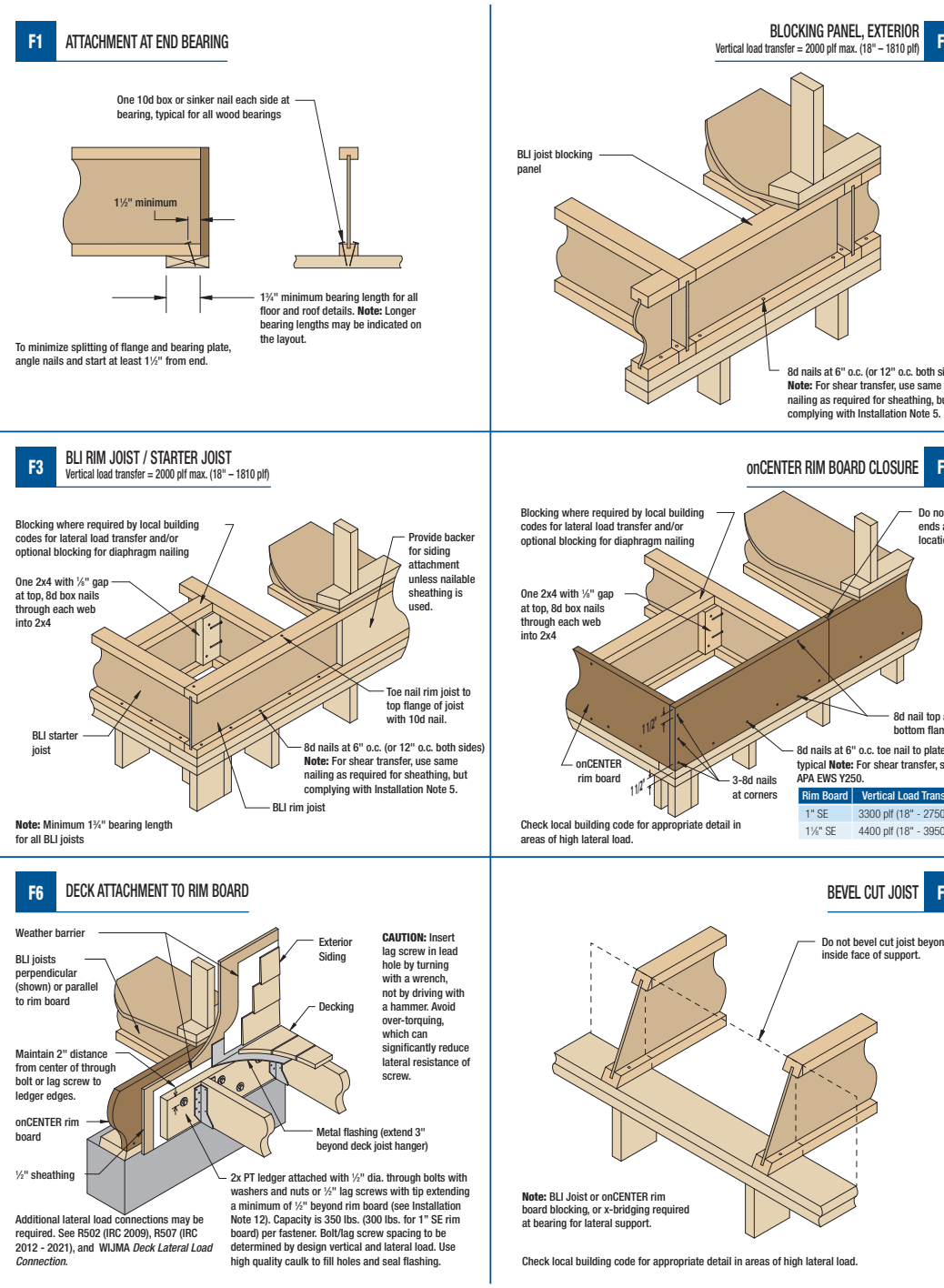
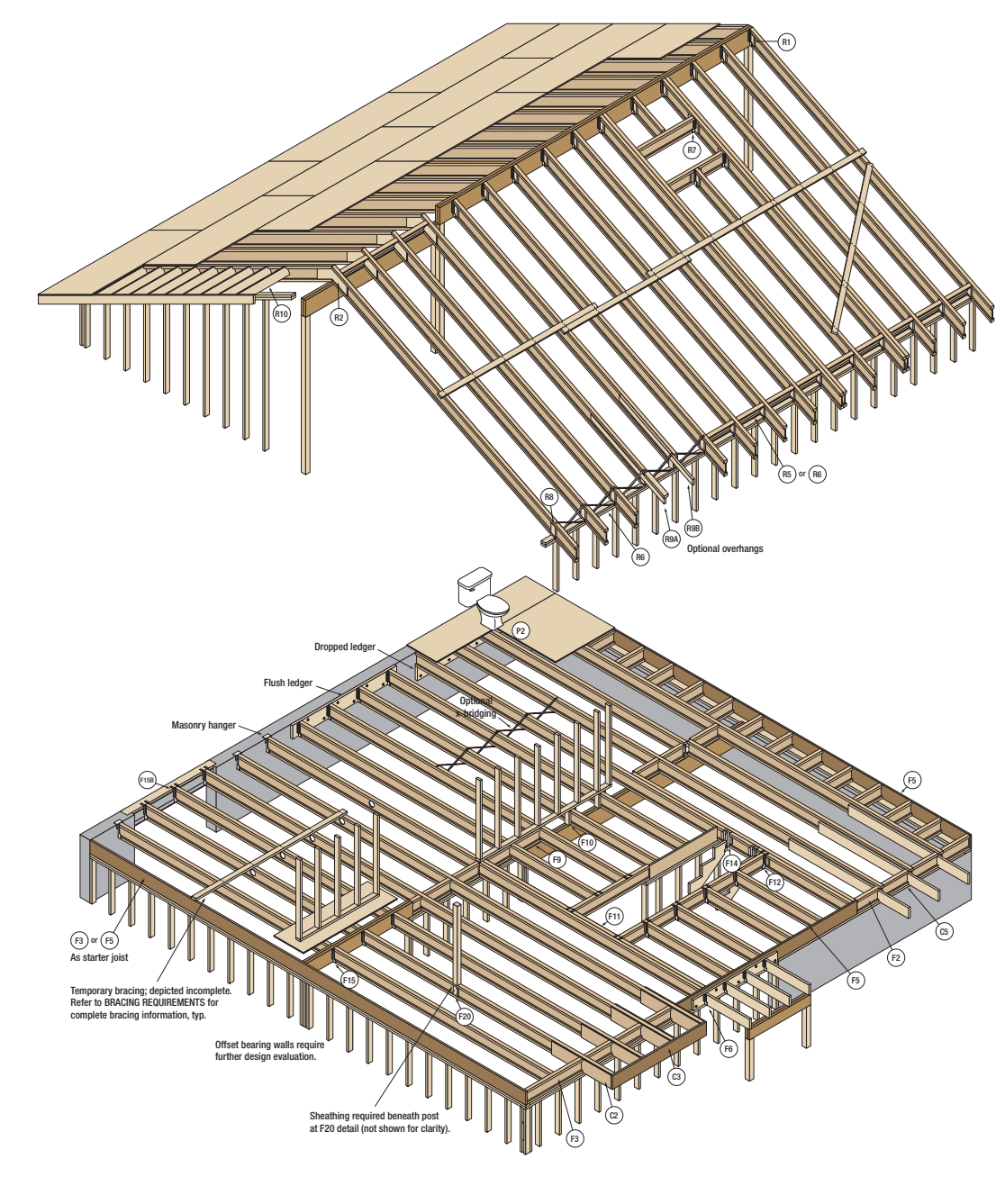
### FLOOR SPANS

#### 40 PSF Live Load + 10 PSF Dead Load (L400)

Joist Spacing	Depth	Simple Span				Multiple Spans			
		12' 0"	14' 0"	16' 0"	18' 0"	12' 0"	14' 0"	16' 0"	18' 0"
BU 40	9" x 12"	17'-11"	18'-0"	18'-0"	14'-0"	15'-0"	15'-0"	14'-0"	14'-0"
	11" x 14"	21'-0"	19'-0"	18'-0"	16'-0"	20'-0"	18'-0"	18'-0"	16'-0"
	14" x 18"	24'-0"	22'-0"	20'-0"	18'-0"	24'-0"	20'-0"	20'-0"	18'-0"
BU 60	14" x 18"	28'-0"	26'-0"	24'-0"	22'-0"	27'-0"	24'-0"	24'-0"	21'-0"
	16" x 20"	31'-0"	29'-0"	27'-0"	25'-0"	30'-0"	27'-0"	27'-0"	24'-0"
	18" x 24"	34'-0"	32'-0"	30'-0"	28'-0"	33'-0"	30'-0"	30'-0"	27'-0"

- Spans are maximum clear distances between supports. Uniform loading is assumed.
- Use load factors as indicated in IBC, providing loads that are one-third of those required by code. Expansion has been assumed to be the code minimum.
- Spans are based on composite action with full-strength APA Rated Sheathing on S&B Fiber panels of minimum thickness 1/2" (1/2" or 3/4" for joist spacing of 12" or 14").
- Minimum bearing length is 11" (intermediate).
- For multiple joist, end spans must be at least 40% of adjacent spans.
- Reinforced joists for multiple spans must be used in areas where spans are subject to conditions. Multiple spans must be used in areas where spans are subject to conditions.

### onCENTER FRAMING SYSTEMS



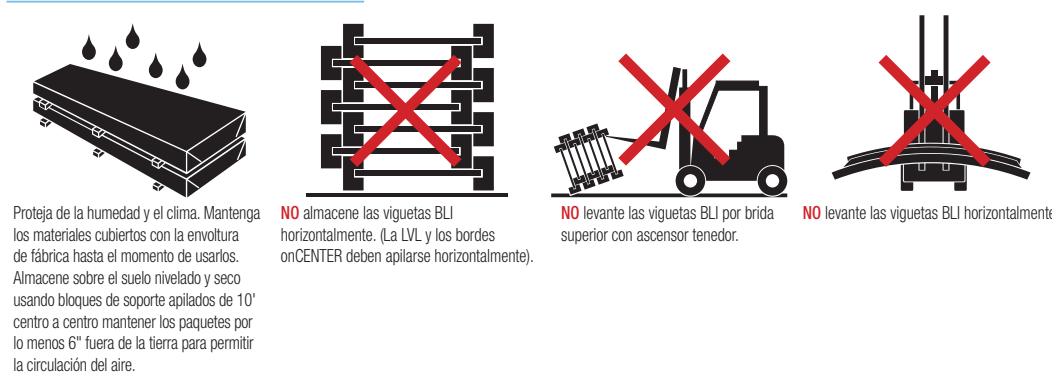
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GUÍA DE INSTALACIÓN Sistemas de Pisos y Techos Residenciales

ALMACENAMIENTO Y MANEJO



Prejo de la humedad y el agua. Mantenga las viguetas alejadas de la humedad... No almacene las viguetas BL horizontalmente... No levante las viguetas BL por bridas... No levante las viguetas BL horizontalmente...

Use lentes de seguridad, guantes, cascos y otros equipos de protección personal... No cargue sobre madera dañada... No levante los materiales de construcción... No use productos dañados...

REQUISITOS DE REFORZAMIENTO



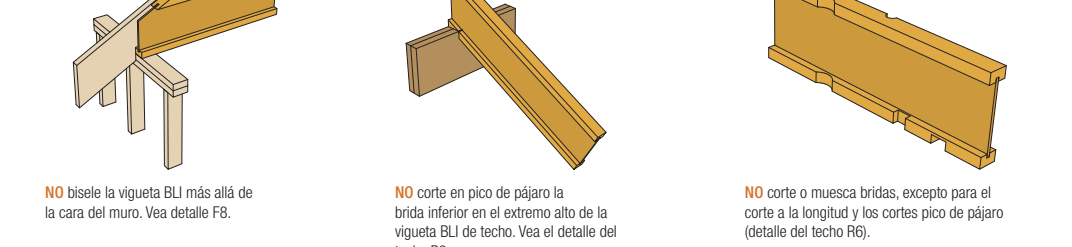
- 1. Las viguetas son instaladas hasta que se fijan correctamente y se refuerzan temporalmente... 2. Soporte las viguetas y gatas que no giran en los soportes de los extremos... 3. Instale todas las viguetas en cada agujero, viga, concreto, panel de bloques, anclamiento o cierra continuo a medida que se instala... 4. La aplicación lateral, como una pared de estera reforzada o una cubierta oscura, debe establecerse paralela a la primera viga de una sección... 5. Las líneas de reforzamiento temporal instaladas en ángulo recto a las viguetas y con espaciado de no más de 10" contra el borde exterior... 6. Las bridas de la viga deben permanecer rectas a 90° de la alineación correcta...

NOTAS DE INSTALACIÓN

- 1. Los productos onCENTER de BlueLinx deben protegerse del clima y usarse solo en condiciones bajo techo... 2. Las viguetas BL deben ser soportadas por la brida inferior en los muros o vigas o concreto... 3. Para las viguetas BL, el tramo del reforzamiento exterior mínimo es 1'0", el tramo del reforzamiento interior mínimo es 2'0"... 4. Las viguetas BL (LVL) deben estar restringidas para que no giren en los soportes... 5. La madera dañada no debe instalarse en contacto directo con mampostería u concreto... 6. Cuando el tipo de clima no se especifica en esta guía, pueden usarse clavos comunes de 16 o 18 pulgadas... 7. Al pasar en la cara superior de las bridas de las viguetas BL, mantenga el espacio dentro de las siguientes reglas:

Table with 4 columns: Distancia Simple, 2x1 o.c., 2x2 o.c., 2x4 o.c. and 4 rows of joist sizes (BL 40, BL 60, BL 85, BL 90).

NOTAS: 1. El espacio entre las viguetas debe ser de 12" o más... 2. Las viguetas BL deben ser soportadas por la brida inferior en los muros o vigas o concreto... 3. Para las viguetas BL, el tramo del reforzamiento exterior mínimo es 1'0", el tramo del reforzamiento interior mínimo es 2'0"... 4. Las viguetas BL (LVL) deben estar restringidas para que no giren en los soportes...



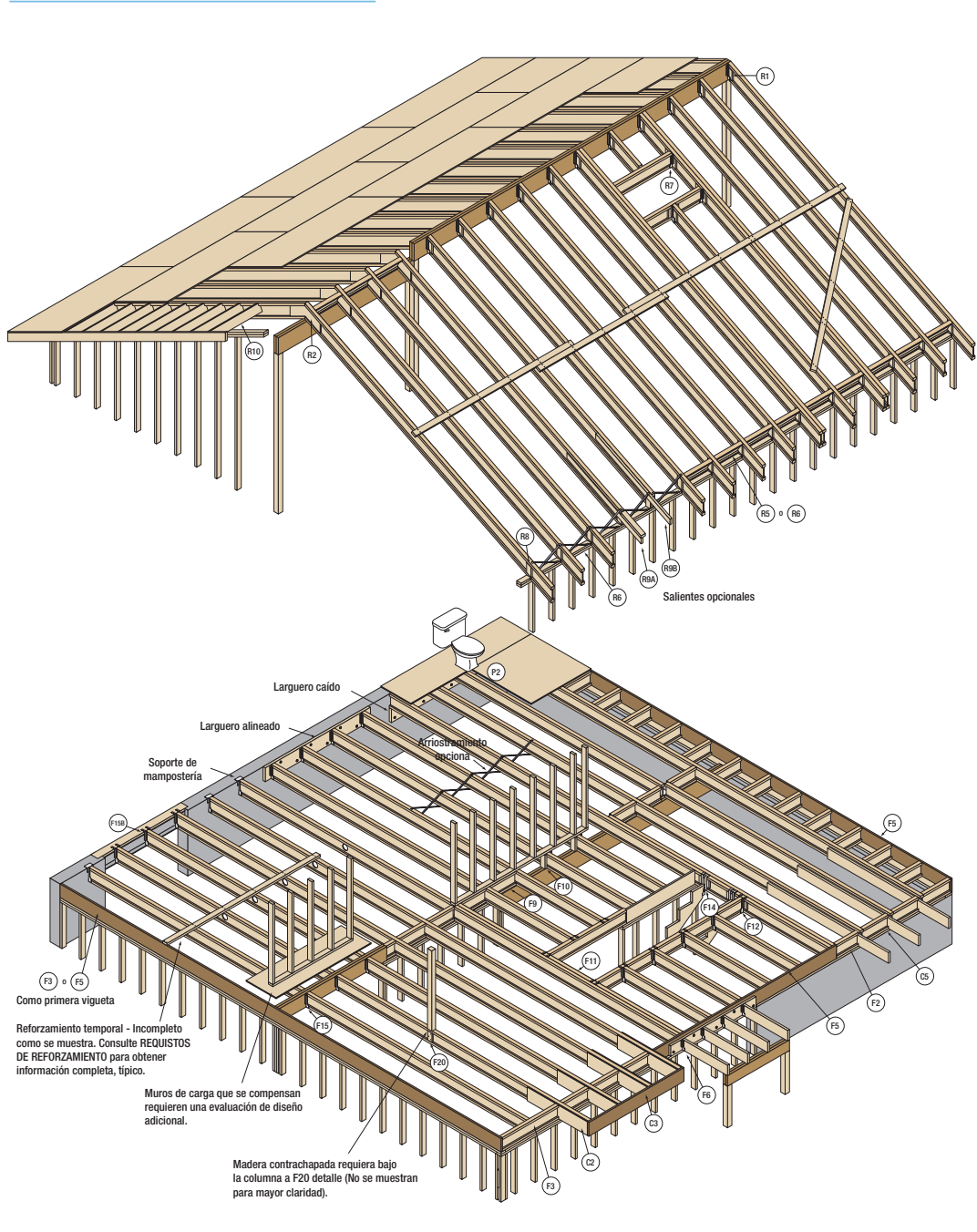
DISTANCIAS MÁXIMAS DE LAS VIGUETAS

40 PSF Carga Viva + 10 PSF Carga Muerta (L/400)

Table with 4 columns: Joist Size, Span, Distance Simple, and 4 rows of joist sizes (BL 40, BL 60, BL 85, BL 90).

NOTAS: 1. Las distancias son el espacio entre los soportes... 2. La distancia de carga muerta debe ser de 12" o más... 3. Las viguetas BL deben ser soportadas por la brida inferior en los muros o vigas o concreto... 4. Para las viguetas BL, el tramo del reforzamiento exterior mínimo es 1'0", el tramo del reforzamiento interior mínimo es 2'0"... 5. Las viguetas BL (LVL) deben estar restringidas para que no giren en los soportes...

onCENTER SISTEMAS DE MARCOS



Multiple small diagrams and sections labeled F1 through F9, detailing specific framing and connection methods for joists and rafters.

F4 PANELS DE BLOQUEO EN APOYO INTERIOR. Diagrams showing joist connections over interior supports and blocking details.

F13 ABERTURA PISO CONECTORES MONTADOS SOBRE LA CARA. Diagrams showing floor opening connections with joists mounted on top.

F18 RIGIDIZADORES DE SOPORTE. Diagrams showing support stiffeners for joists and their connection details.

C1 VOLADIZO NO REFORZADO. Diagrams showing non-reinforced cantilevers and their connection details.

P1 SEPARACIÓN DE VIGUETAS DEBAJO DEL MURO CON INSTALACIÓN DE PLOMERA. Diagrams showing joist separation under a wall with plumbing installation.

R1 CONEXIÓN DE VIGUETA A LA CUBIERTA. Diagrams showing joist connections to the roof structure.

F14 TRABAJOS DE ESCALERA LA CONEJÓN DE VIGUETA. Diagrams showing joist connections for staircase work.

F16 CONEJÓN VIGUETA A VIGA. Diagrams showing joist connections to a beam.

F20 RIGIDIZADORES DE ALMA. Diagrams showing web stiffeners for joists and their connection details.

C3 VOLADIZO DOBLE REFORZADO. Diagrams showing double-reinforced cantilevers and their connection details.

P2 SEPARACIÓN DE VIGUETAS DEBAJO DE LOS ACCESOS DE PLOMERÍA. Diagrams showing joist separation under plumbing access points.

R3 EXTREMO SUPERIOR, SOPORTE EN EL MURO. Diagrams showing top end support of joists on a wall.

F12 ABERTURA DE PISO CONECTORES MONTADOS EN LA PARTE SUPERIOR. Diagrams showing floor opening connections with joists mounted on top.

F16 CONEJÓN VIGUETA A ESCALÓN. Diagrams showing joist connections to a step.

F22 REFORZADO DE FORMA CÓNICA. Diagrams showing conical reinforcement for joists and their connection details.

C4 VOLADIZO DOBLE REFORZADO. Diagrams showing double-reinforced cantilevers and their connection details.

FACTORES DE TECHO DE PENDIENTE Y AUMENTA LA PLOMADA CORTE. Diagrams and tables showing roof pitch factors and rafter spacing.

R5 VIGUETA EN PLACA BISELADA. Diagrams showing beveled joist connections and their details.

R7 ABERTURA DE TECHO CONECTORES MONTADOS SOBRE LA CARA. Diagrams showing roof opening connections with joists mounted on top.

R6 RIGIDIZADORES DE SOPORTE CON CORTE BISELADO. Diagrams showing beveled support stiffeners and their connection details.

DETALLES DE SOPORTE PARA onCENTER LVL. Diagrams showing various support details for onCENTER LVL joists.

REQUISITOS MÍNIMOS PARA LA CONEXIÓN DE MÚLTIPLES PIEZAS DE LVL. Diagrams showing minimum requirements for LVL connections.

AGUJEROS HORIZONTALES PERMITIDOS EN onCENTER LVL. Diagrams showing permitted horizontal holes in onCENTER LVL joists.

AGUJEROS HORIZONTALES PERMITIDOS EN onCENTER LVL. Diagrams showing permitted horizontal holes in onCENTER LVL joists.

R8 ENTORNOS DE SALENTESPONALES. Diagrams showing details around nail plates.

R9 SALENTE PARALELA A LA VIGUETA. Diagrams showing parallel nail plates on joists.

B1 SOPORTE EN PARED. Diagrams showing joist support on a wall.

B2 SOPORTE EN LA PARED DE CONCRETO. Diagrams showing joist support on a concrete wall.

B3 CONEJÓN DE VIGA A VIGA. Diagrams showing joist-to-joist connections.

R10 BLOQUEO DE TEJO CON VENTILACIÓN PERMITIDA. Diagrams showing roof blocking with ventilation.

C5 VOLADIZO. Diagrams showing cantilever details and their connection details.

B4 SOPORTE EN LA COLUMNA. Diagrams showing joist support on a column.

B5 VIGA-COLUMNA DE REFORZAMIENTO LATERAL. Diagrams showing lateral reinforcement joist-column connections.

B6 SOPORTE PARA DANTEL DE PUERTA O VENTANA. Diagrams showing joist support for door or window lintels.

B7 SOPORTE PARA LAMINETA DEL EXTREMO SUPERIOR. Diagrams showing end support for joist laminates.