

# LP® SolidStart®

## ENGINEERED WOOD

### Handling & Installation Recommendations

LP® SolidStart® I-Joists, LP SolidStart LVL & LP SolidStart LSL

For applications with loads greater than 10, please consult the Light Frame Commercial and Multistory Construction Tech 1-Book.

#### Important Notes

**WARNING: Failure to follow proper procedures for handling, storage and installation could result in unsatisfactory performance, unsafe structures and possible collapse.**

These instructions are offered as a guide to good practice in the handling, storage and installation of LP SolidStart® I-joists, LP SolidStart LVL and LP SolidStart LSL beams. They are, however, safety-related recommendations and are not a substitute for engineering or additional precautions may be desirable. In all cases, the procedures used should be as specified by the architect/engineer responsible for the main building.

- This is not intended as a manual for setting-up products and become their components, and details have been simplified for clarity. For specific strength and span information, please consult specific product brochures.
- All lifts, jacks, blocking, connections and temporary bracing must be installed before erection are allowed on this structure.
- No loads other than the weight of the structure are to be imposed on the structure before it is permanently finished.
- After erecting, do not use load paths with connections in areas exceeding design loads.
- LP SolidStart® I-joists, LP SolidStart LVL and LP SolidStart LSL beams must be installed dry, cleaned and well-ventilated inside enclosures in which this equilibrated moisture content of lumber will not exceed 18% (8% for studs) and must be properly supported (18% is dry to 6°C).

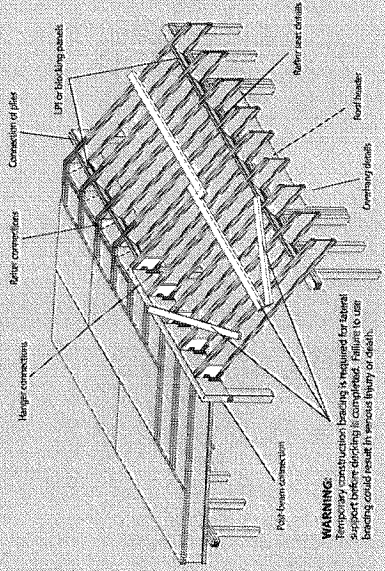
### Roof Layout (typical)

#### TEMPORARY BRACING

- Use at least 1x4 temporary bracing members nailed to each I-joist with two 8d nails.
- Keep the main runs parallel and no more than 6" apart.
- Use long pieces, not short blocks, lag the ends to help a continuous line of bracing.
- To prevent excessive movement of the continuous 1x4 lines of bracing, anchor them at the ends and at 25'-0" intervals into a stable end wall or an area braced by sheathing or diagonal bracing.
- Remember the continuous 1x4 bracing is not effective unless attached to the braced area.
- Use particular care removing temporary bracing when applying sheathing. Remove the bracing as the sheathing is attached.

#### NOTES FOR ROOF LAYOUT:

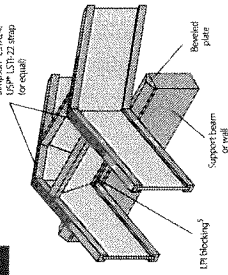
- I-joists used as rafters must be supported laterally at all bearings and the ends of cantilevers.
- Any fastening of member, not detailed, such as uplift or seismic anchor, is subject to local approval and may require additional details and connections.
- Minimum pitch: 1/4" per foot (1/4:12). Maximum pitch: 17" per foot (12:12).
- Verify capacity and fastening of hangers and connections.



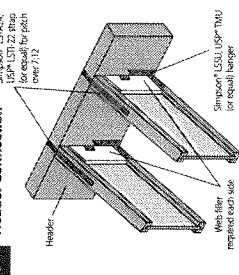
**WARNING:**  
Temporary construction bracing is required for lateral support before sheathing is completed. Failure to use bracing could result in serious injury or death.

### Roof Details

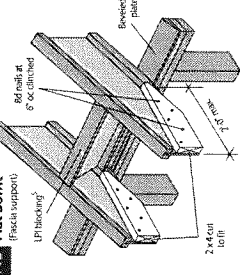
#### J1 Rafter Connection



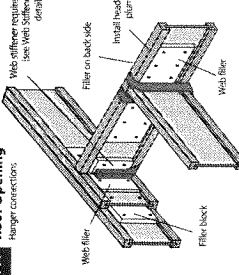
#### J4 Header Connection



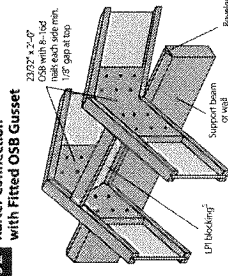
#### H3 Flat Soffit



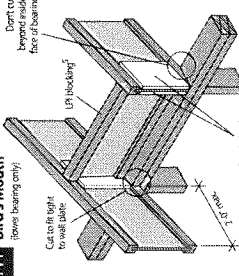
#### K1 Roof Opening



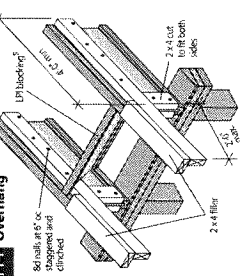
#### J2 Rafter Connection with Fitted OSB Gusset



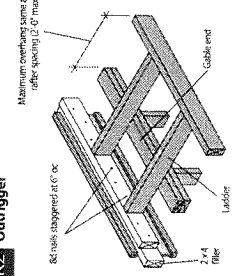
#### H1 Bird's Mouth



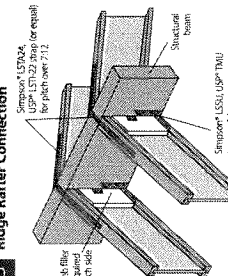
#### H4 Overhang



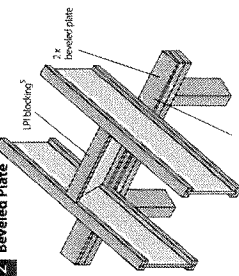
#### K2 Outrigger



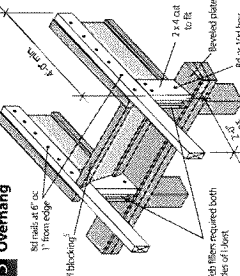
#### J3 Ridge Rafter Connection



#### H2 Beveled Plate



#### H5 Overhang

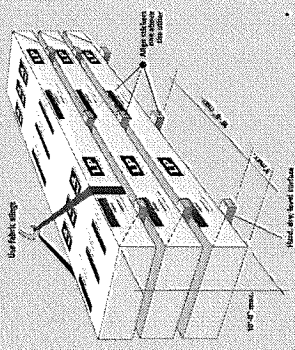


#### NOTES:

- Minimum pitch: 1/4" per foot (1/4:12). Maximum pitch: 17" per foot (12:12).
- Verify capacity and fastening requirements of hangers and connectors.
- Some wind or seismic loads may require different or additional details and connections. Uplift anchors may be required.
- 4" diameter holes may be cut in blocking for ventilation.
- Lateral resistance shall be provided. Other methods of restraint, such as full depth LP SolidStart OSB Rim Board, LP SolidStart LVL, or metal K-bracing may be substituted for the LP blocking shown.

### Handling & Storage

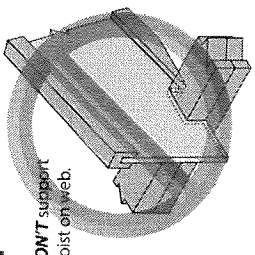
- Keep LP SolidStart I-joists, LP SolidStart LVL & LP SolidStart LSL beams dry.
- Unload products carefully by lifting. Support the bundles to reduce excessive bowing. Individual products should be handled in a manner which prevents physical damage during unloading, cutting, erection, etc. I-joists should be handled vertically and not horizontally.
- Keep stored in wrapped and strapped bundles, stacked no more than 10 high. Support and separate bundles with 2x4 (or large) stickers spaced no more than 18" apart. Keep stickers in line vertically.
- Product must not be stored in contact with the ground, or have prolonged exposure to the weather.
- Use tarps and cannot carefully to avoid damaging products.
- Do not use visually damaged product. Call your local LP SolidStart Engineered Wood Products distributor for assistance when damaged products are encountered.



### WARNING

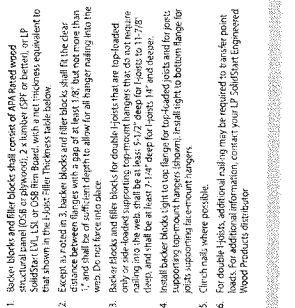
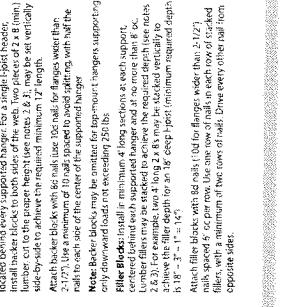
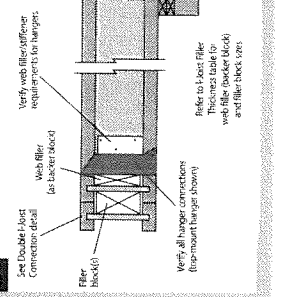
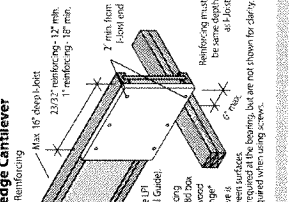
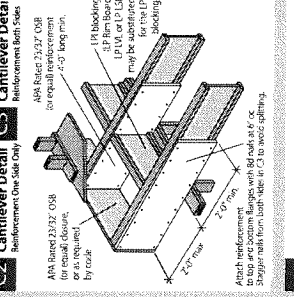
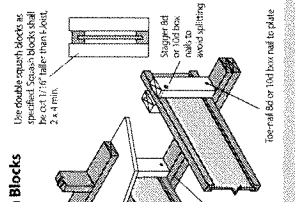
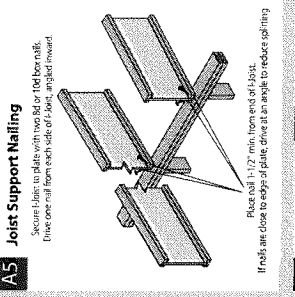
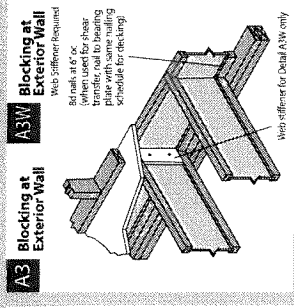
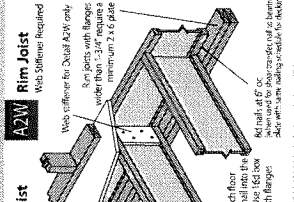
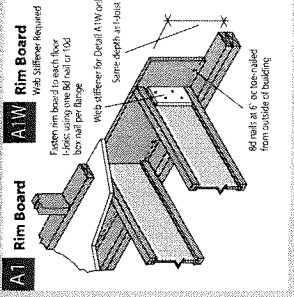
The following conditions are NOT permitted:  
Do not use visually damaged products without first checking with your local LP SolidStart Engineered Wood Products distributor or sales office.

#### R8

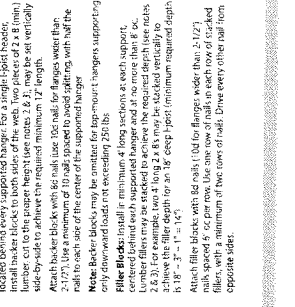
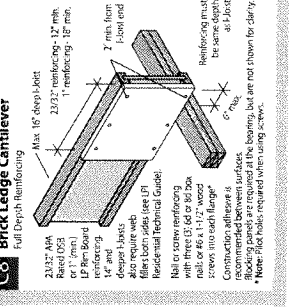
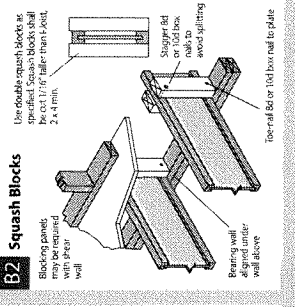
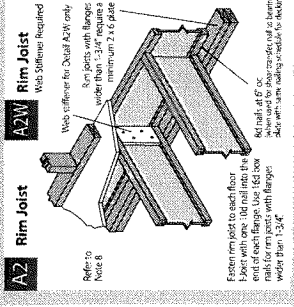
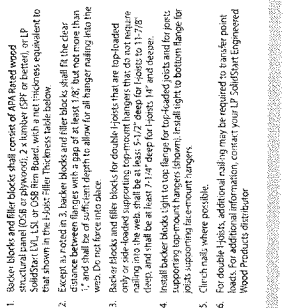
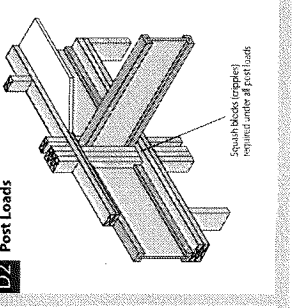
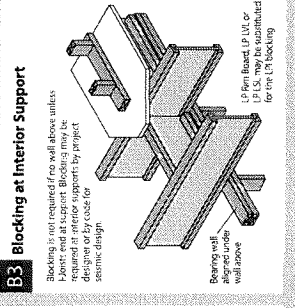
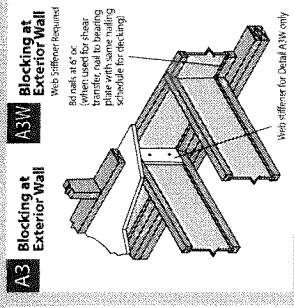
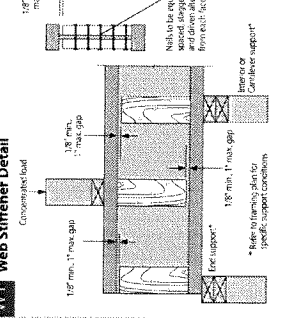
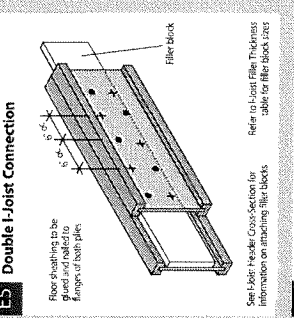
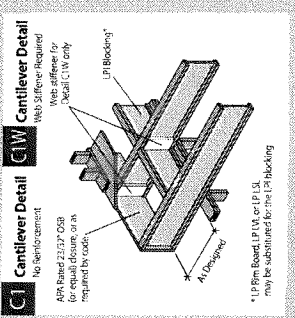
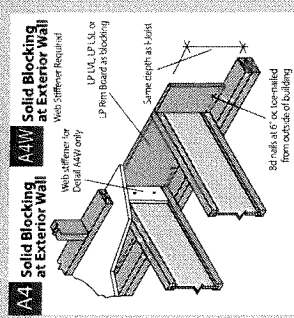
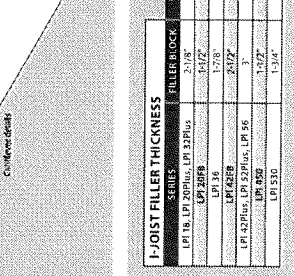
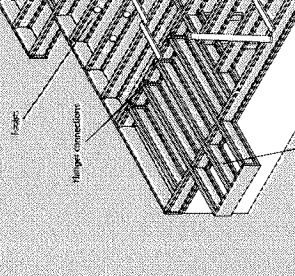


**DONT** support I-joist on web.

# Floor Details



# Floor Layout (typical)



# TEMPORARY BRACING

Use at least 1/2 inch temporary bracing members nailed to each I-joist with two 8d nails. Keep the main run parallel and no more than 8'-0" apart. Use long pieces, not short blocks, lap the end to keep a continuous line of bracing. To prevent end movement of the continuous 1/4 lines of bracing, anchor them at the ends and at 25'-0" intervals into a stable end wall or an area braced by sheathing or diagonal bracing. Remember, the continuous 1/4 bracing is not electric-union attached to the braced area. Use particular care removing temporary bracing when applying sheathing. Remove the bracing as the sheathing is attached.

**NOTES FOR FLOOR LAYOUT:**  
 • Joists must be supported laterally at all bearings and the ends of cantilevers.  
 • Unless specified, bridging or mid-span blocking is not required; however, it may enhance floor performance if used properly.  
 • Verify capacity and fastening of hangers and connectors.  
 • Some wind or seismic loads may require different or additional details and connectors.

**WARNING:**  
 Temporary construction bracing must be installed and maintained in accordance with the building code. Failure to use bracing could result in serious injury or death.

**NOTES:**  
 1. Batten blocks and filler blocks shall consist of APA Rated OSB or plywood, 2x lumber (SPF or better), or LP lumber (LVL or I-Joist).  
 2. LP LVL or OSB batten blocks may also be used.  
 3. Refer to the notes for the batten blocks, filler blocks, and filler blocks for details on the required height and length and nailing of the batten blocks and filler blocks.

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