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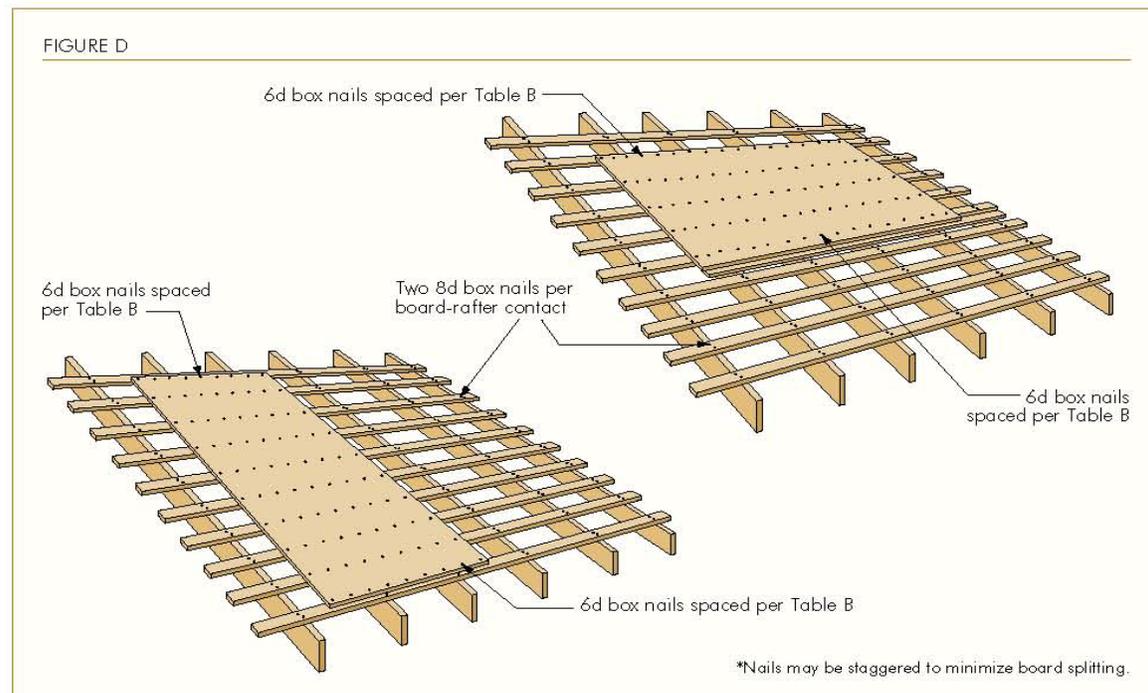
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PANELS ATTACHED DIRECTLY TO SPACED BOARDS

When panels are attached to spaced boards without regard to framing, the existing boards may need additional fastening prior to attaching the panels. Two 8d box nails (0.113 x 2-1/2 inches) are required for each spaced board at each rafter or truss support.

Attach panels, either parallel or perpendicular to the boards, with 6d box nails (0.099 x 2 inches) spaced according to Table B. Configurations that leave panel ends or edges continuously unsupported (cantilevered) should be avoided. Additional boards may be required (Figure D).

Note: Although not a code requirement, panel spacing is an APA **RECOMMENDATION** to provide installers with a means of minimizing the potential for panel buckling, which can lead to an unsightly appearance and customer complaints. Panel buckling may be an aesthetic or serviceability issue but is not a structural deficiency. There is no reason to expect this recommended space to be maintained once the panels become acclimated. Gaps that were initially present may have closed due to normal moisture-related expansion. If the flatness of the panels is acceptable, APA generally recommends that any finish roofing be installed as planned regardless of whether gaps are present.



PANELS ATTACHED TO ROOF FRAMING (THROUGH SPACED BOARDS)

Panels up to 3/4-inch thick may be attached to framing through spaced boards using 8d box nails (0.113 x 2-1/2 inches) with quantity as shown in Table A and illustrated in Figure C. Nail panels to framing at all spaced-board crossings, as shown in Figure C. Nails along edges continuously supported by boards should be spaced 6 inches o.c. Panel edges should not be cantilevered. It may be necessary to add additional boards or move existing boards to support panel edges.

