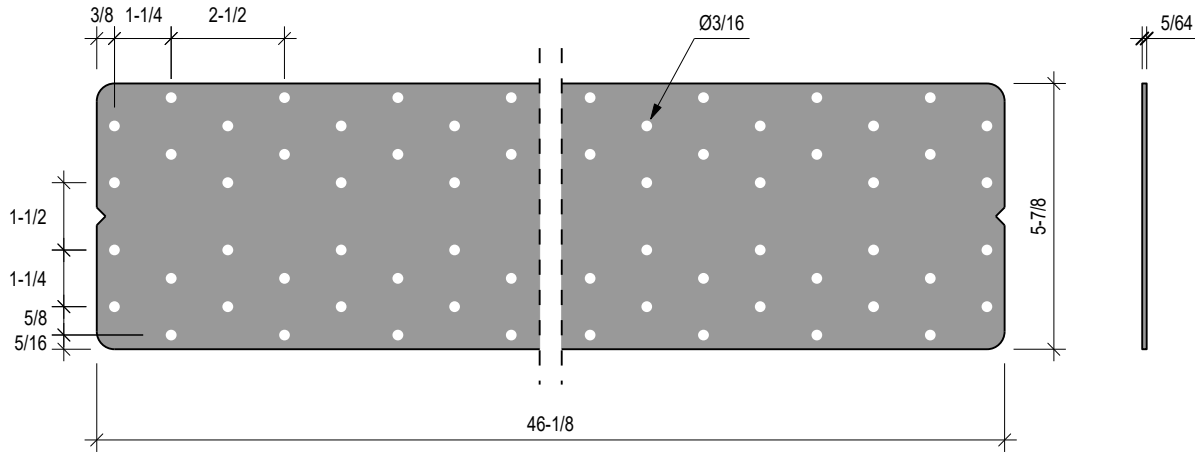
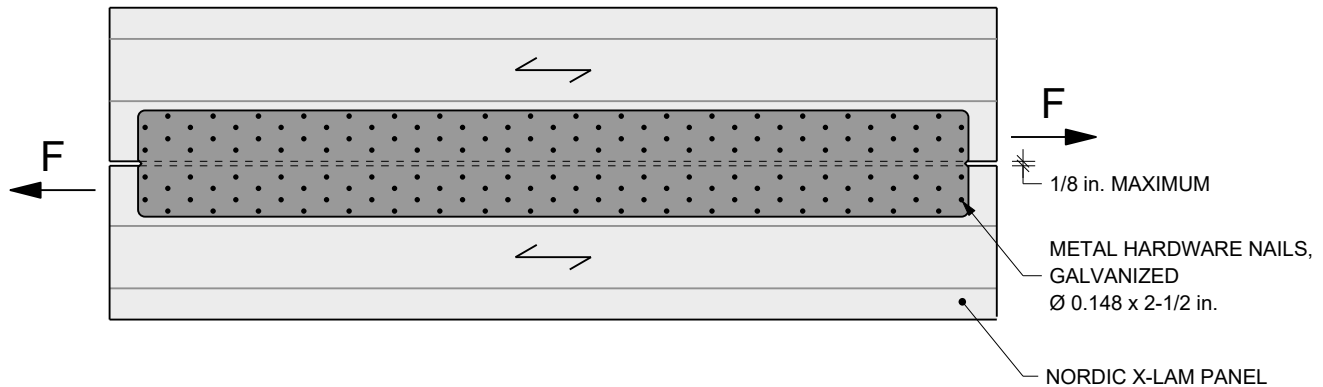


CLT Butt Joint – Hot-Dip Galvanized Steel Spline

Geometry



ASD Allowable Shear Capacity: $F = 12.6$ kips | LRFD Factored Shear Resistance: $F = 17.7$ kips



Notes:

1. The shear capacity/resistance is based on Nordic X-Lam cross-laminated timber (CLT) panels and a spline fabricated from S350GD + Z275 hot-dip galvanized steel (EN 10346), installed parallel to the grain of the outer laminations on the panel face of CLT.
2. The shear capacity/resistance is the lesser of the lateral capacity/resistance of the nailed connection and the lateral capacity/resistance of the steel spline. Verification of the CLT panels must be carried out separately.
3. Lateral capacity/resistance of the nailed connection is verified in accordance with ANSI/AWC SDPWS-2021 Section 4.5, assuming dry service conditions.
4. The steel spline is verified in accordance with AISI S100-16 (R2020).