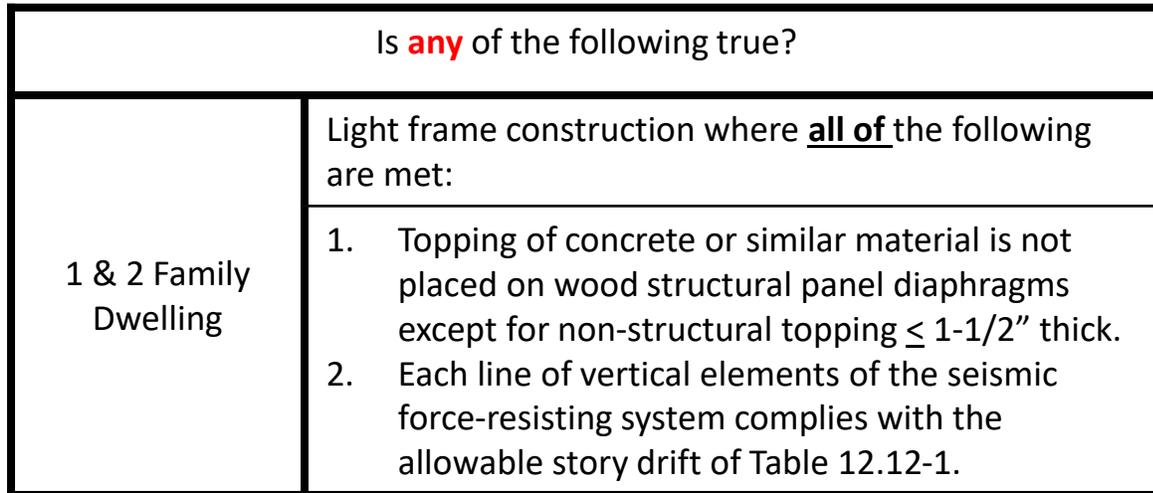


# Diaphragm Classification – Seismic Flowchart

## For Wood Structural Panel Diaphragms

**Start**



No

Yes

Idealize as flexible

Calculate the Maximum Diaphragm Deflection (MDD) and compare to the Average Drift of Adjoining Vertical Elements (ADVE) using the Equivalent Force Procedure of Section 12.8.

$$\frac{\delta_{MDD}}{\Delta_{ADVE}} > 2$$

Idealized as **Flexible** by calculation (ASCE 7-22, §12.3.1.3)

$$\frac{\delta_{MDD}}{\Delta_{ADVE}} \leq 2$$

Idealized as **Rigid** by calculation (2021 SDPWS §4.1.7.2)

Alternative to any of the paths shown (optional)

Semi-rigid analysis that explicitly considers diaphragm stiffness

Envelope method to approximate semi-rigid analysis (IBC 1604.4)