Introduction

Based on the current structural calculation method for the timber frames that applied in Japanese traditional residential houses:



[1] Architectural Institute of Japan. Recommendation for Structural Calculation of Traditional Wood Buildings by Calculation of Response and Limit Strength[M]. 2013: 63-65.

Introduction

Two types of Sashi-gamoi tie beam's end joints are mainly considered :



1) Side joint (T-shaped)

- Connect Sashi-gamoi tie beams with columns on both sides of the frame;
- Fixed with the wood dowel.

2) Center joint (X-shaped)

- Connect two Sashi-gamoi tie beams with the center column;
- Tie-beams on both sides are linked with the inserted spline and fixed by inclined shear keys.