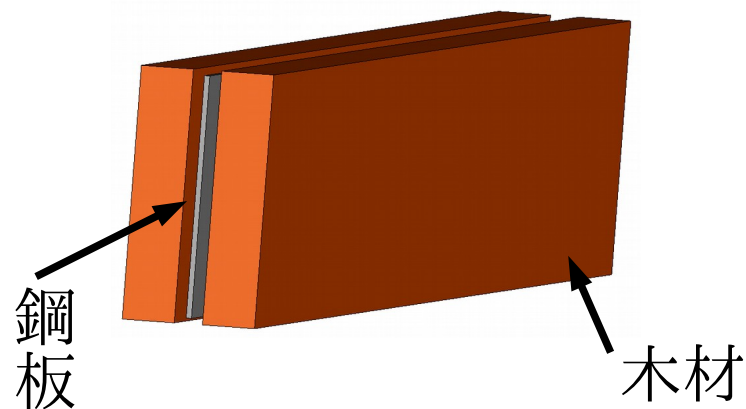


鋼板挿入集成材梁の継手の接合方法

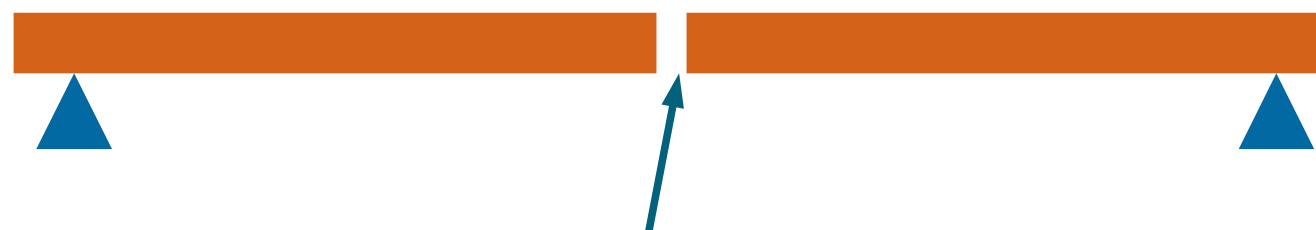


- ・炭素固定
- ・景観

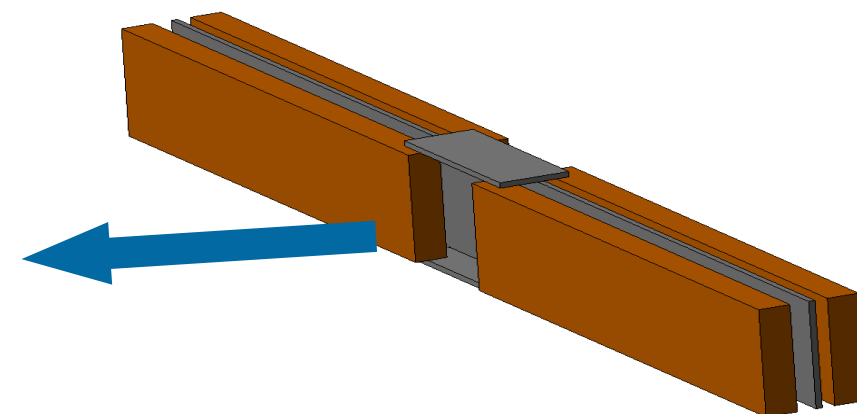
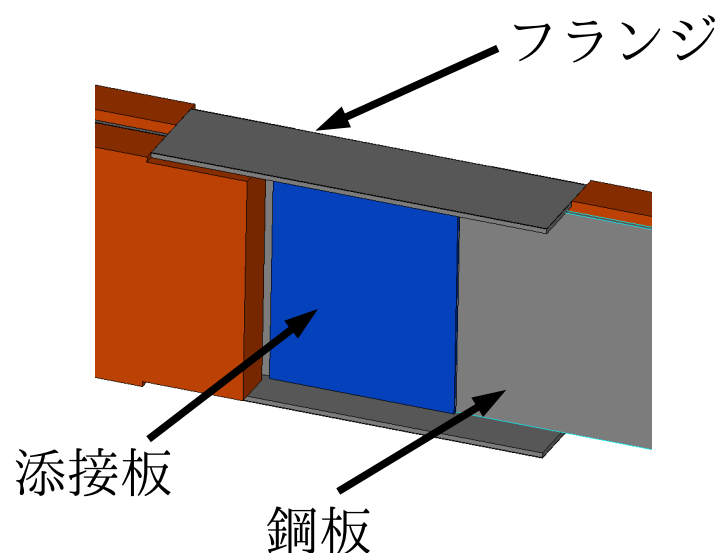
低い剛性を補う必要



7019524 岡田潤

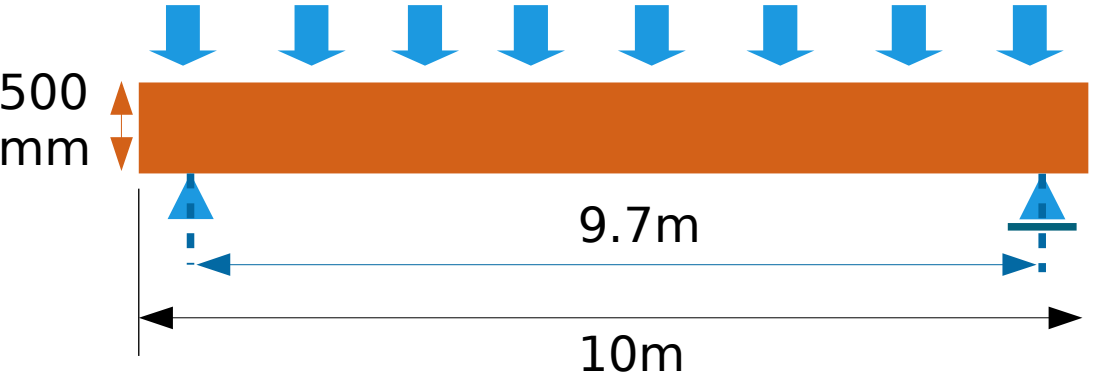


継手部分で剛性が低くなる

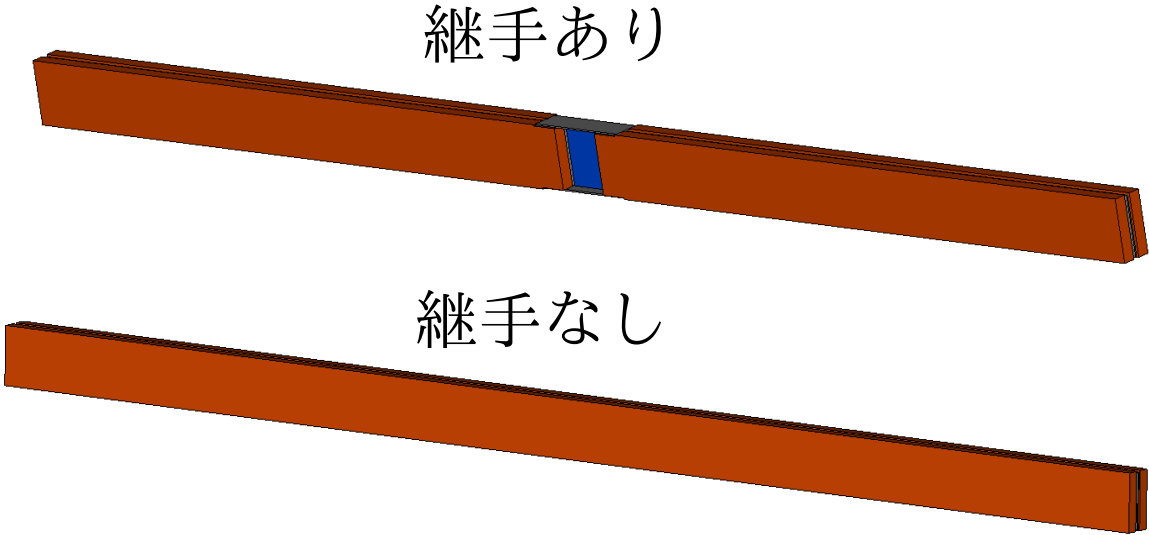


秋田県などの山間部では
雪荷重が大きい！

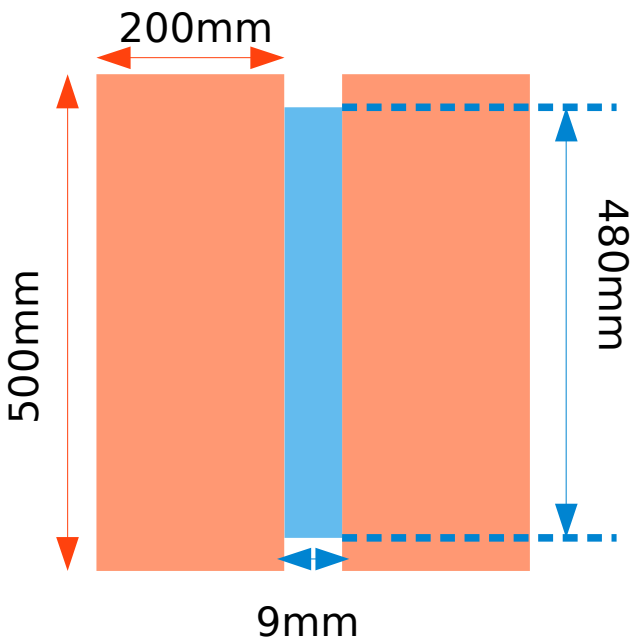
積雪時を想定



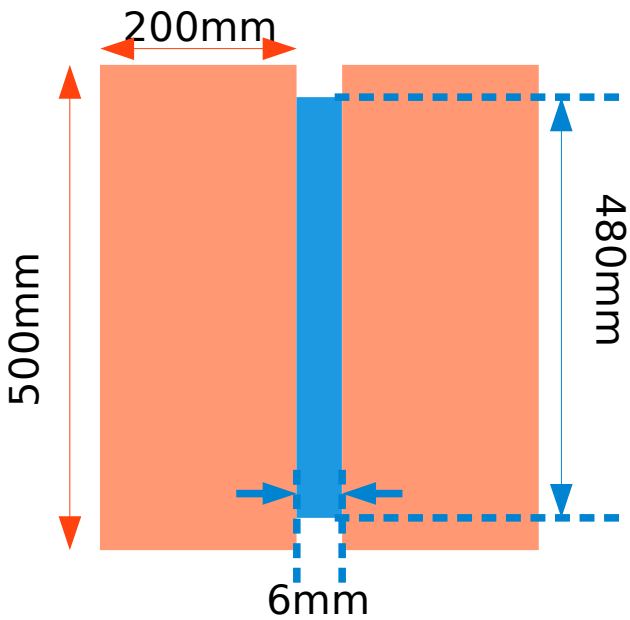
	構造用集成材 (杉)	鋼材 (ss400)
ヤング率 E	7.5GPa	206Gpa
ポアソン比 ν	0.4	0.3
降伏応力	24.0 N/m ²	245 N/mm ²



・ 9mm 鋼材

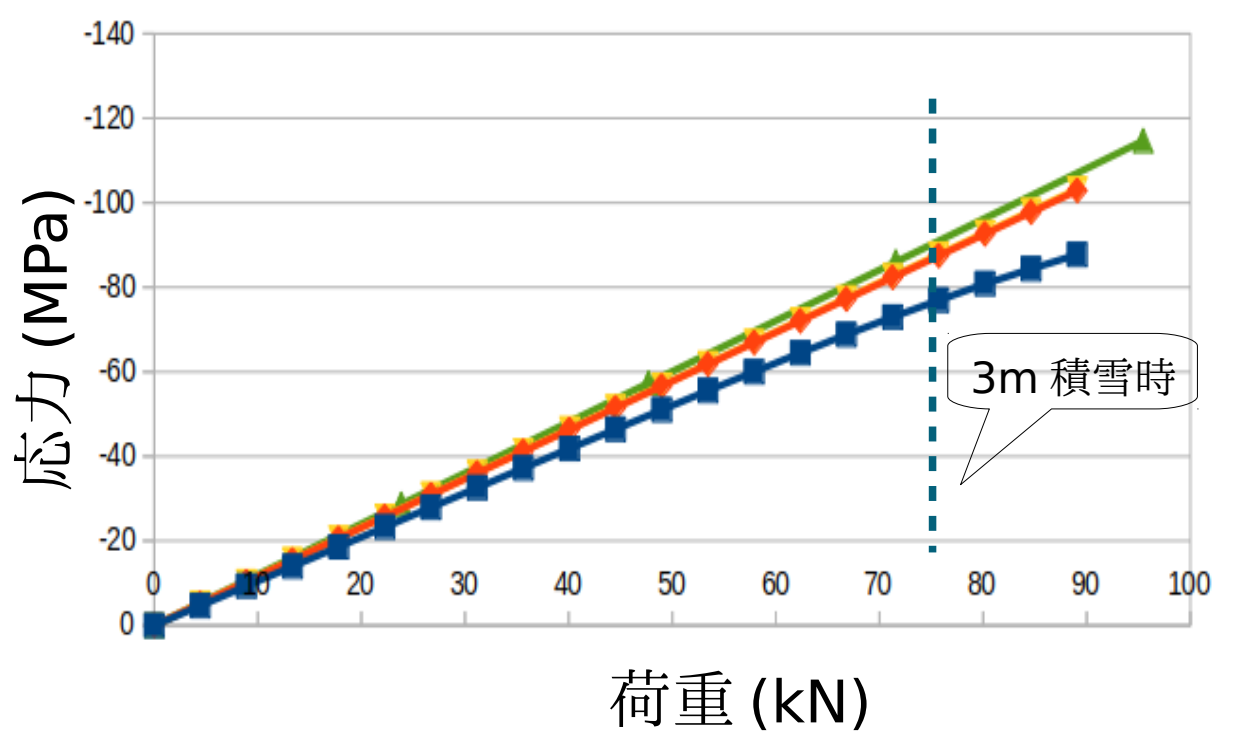
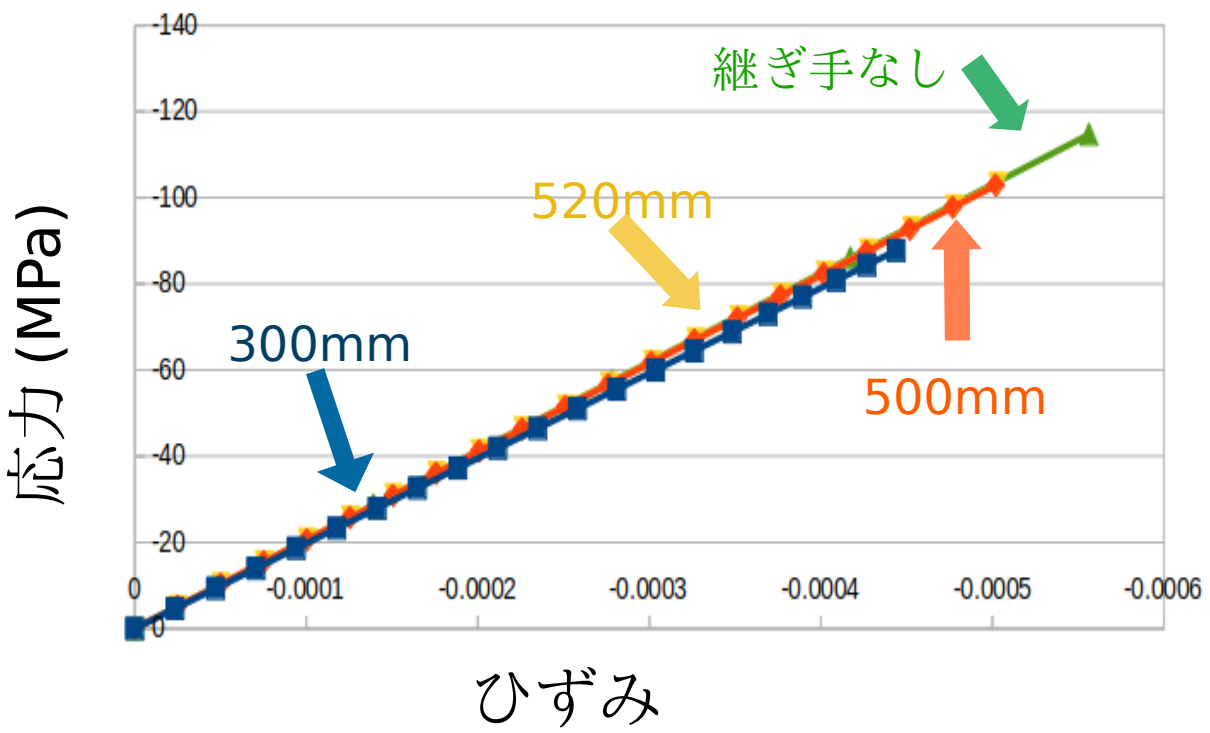
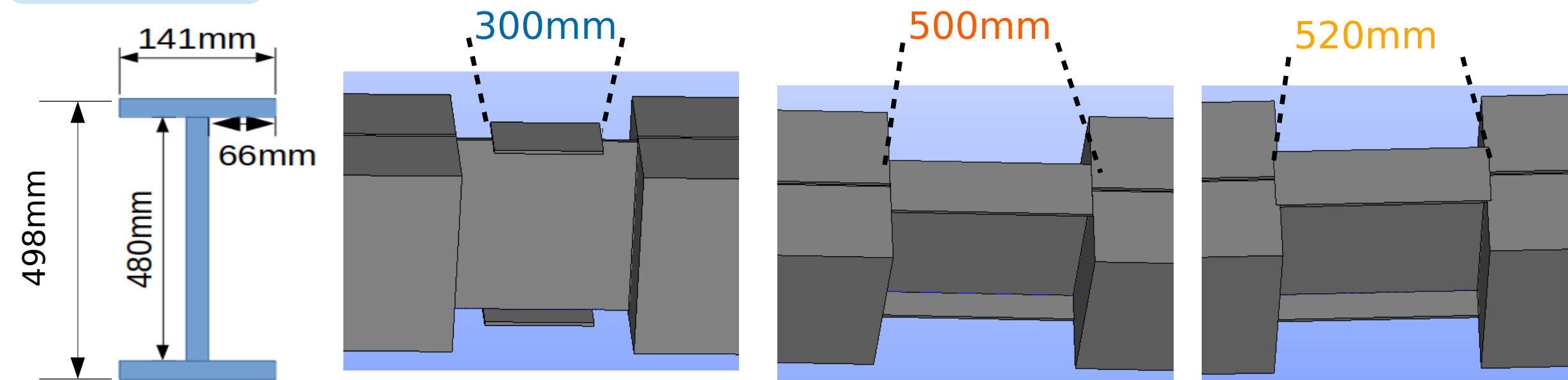


・ 6mm 鋼材



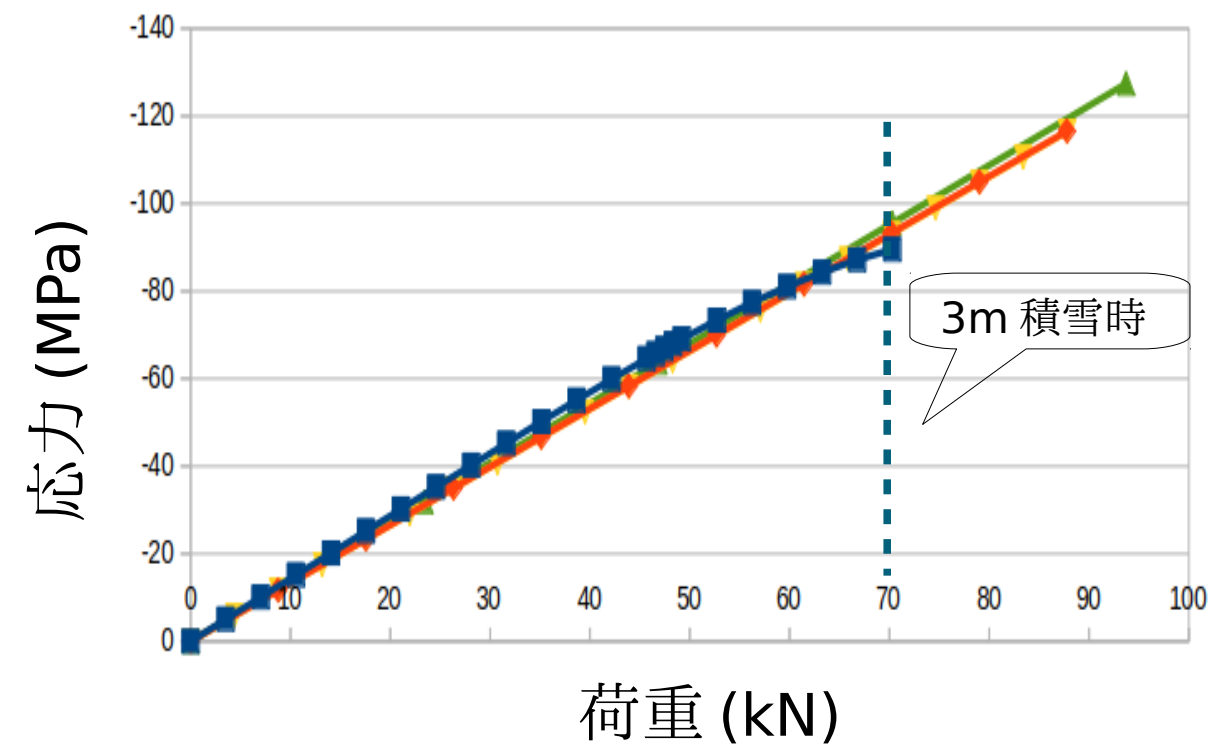
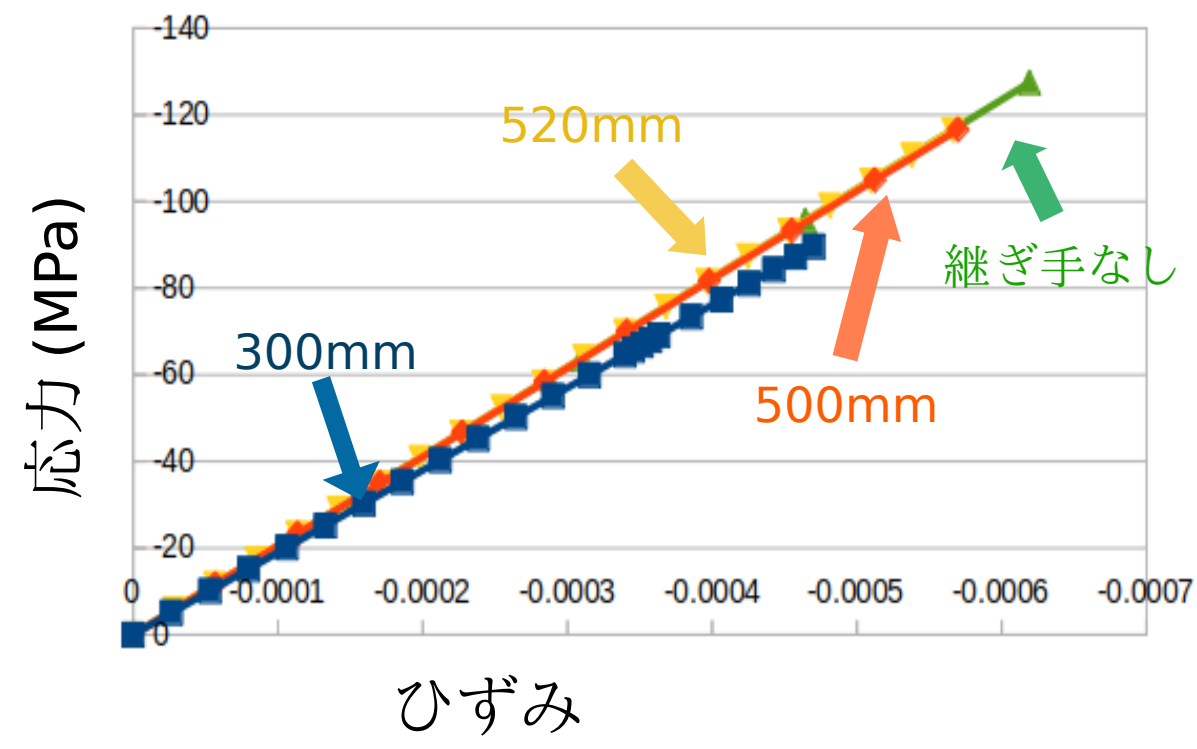
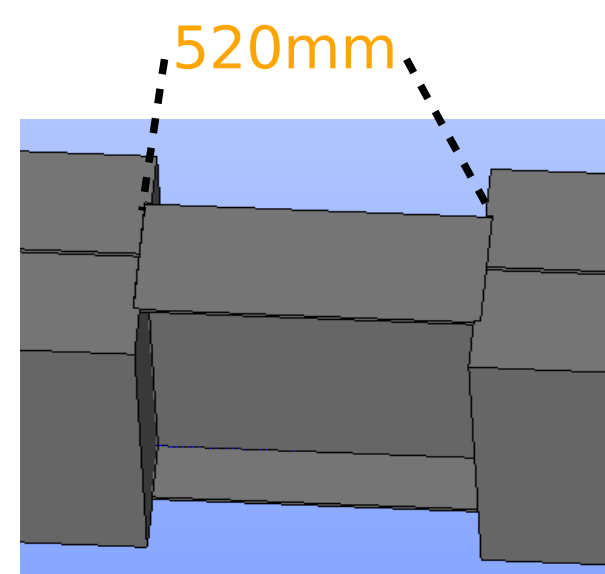
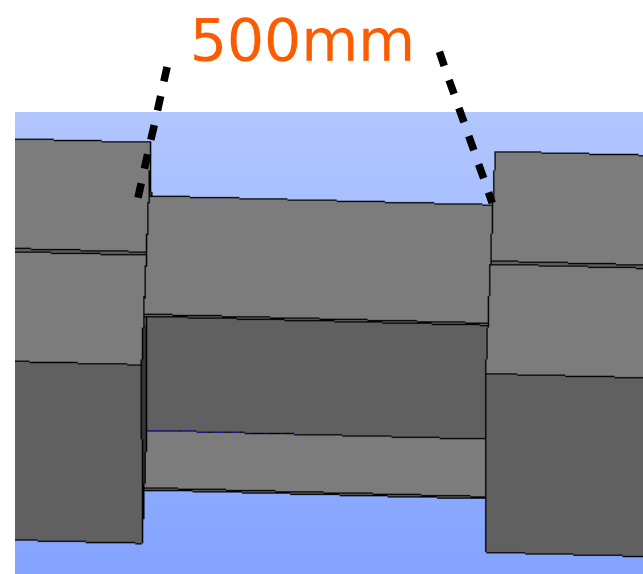
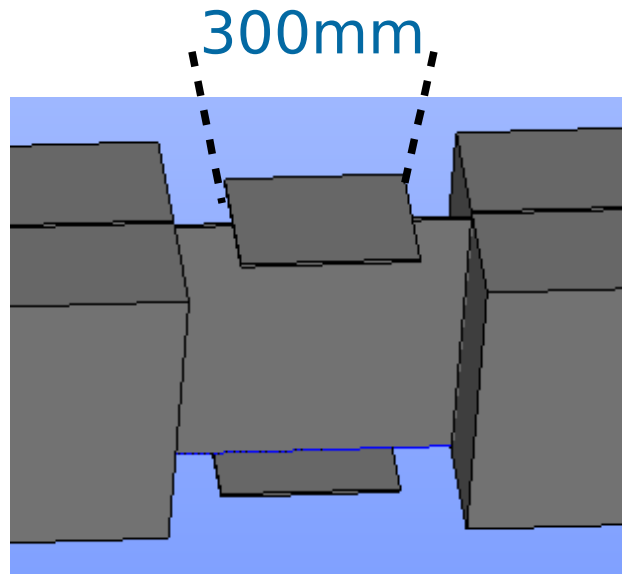
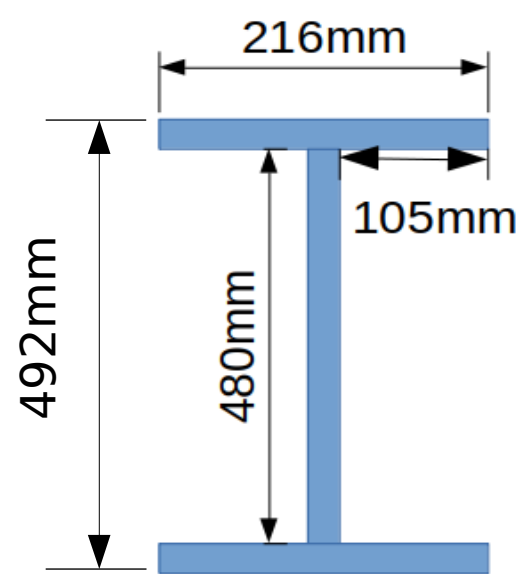
解析結果

9mm 鋼材



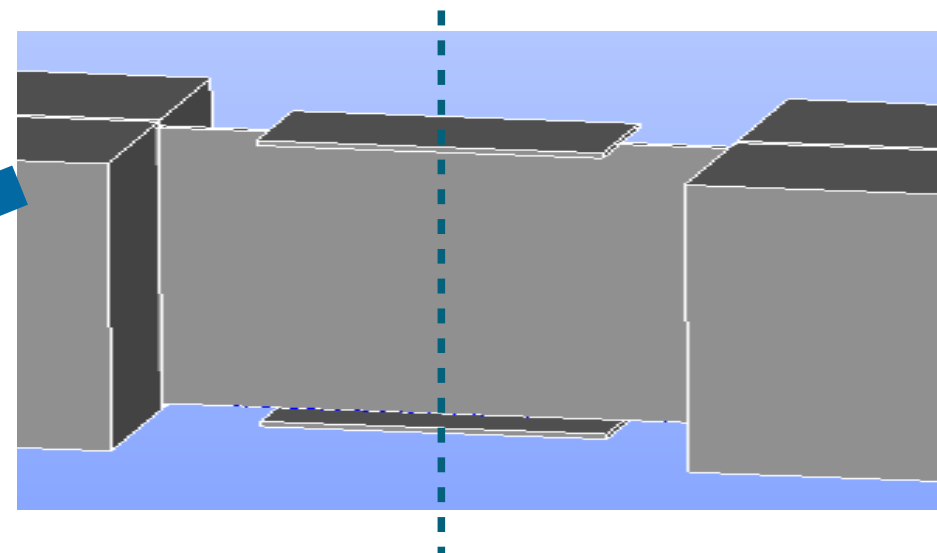
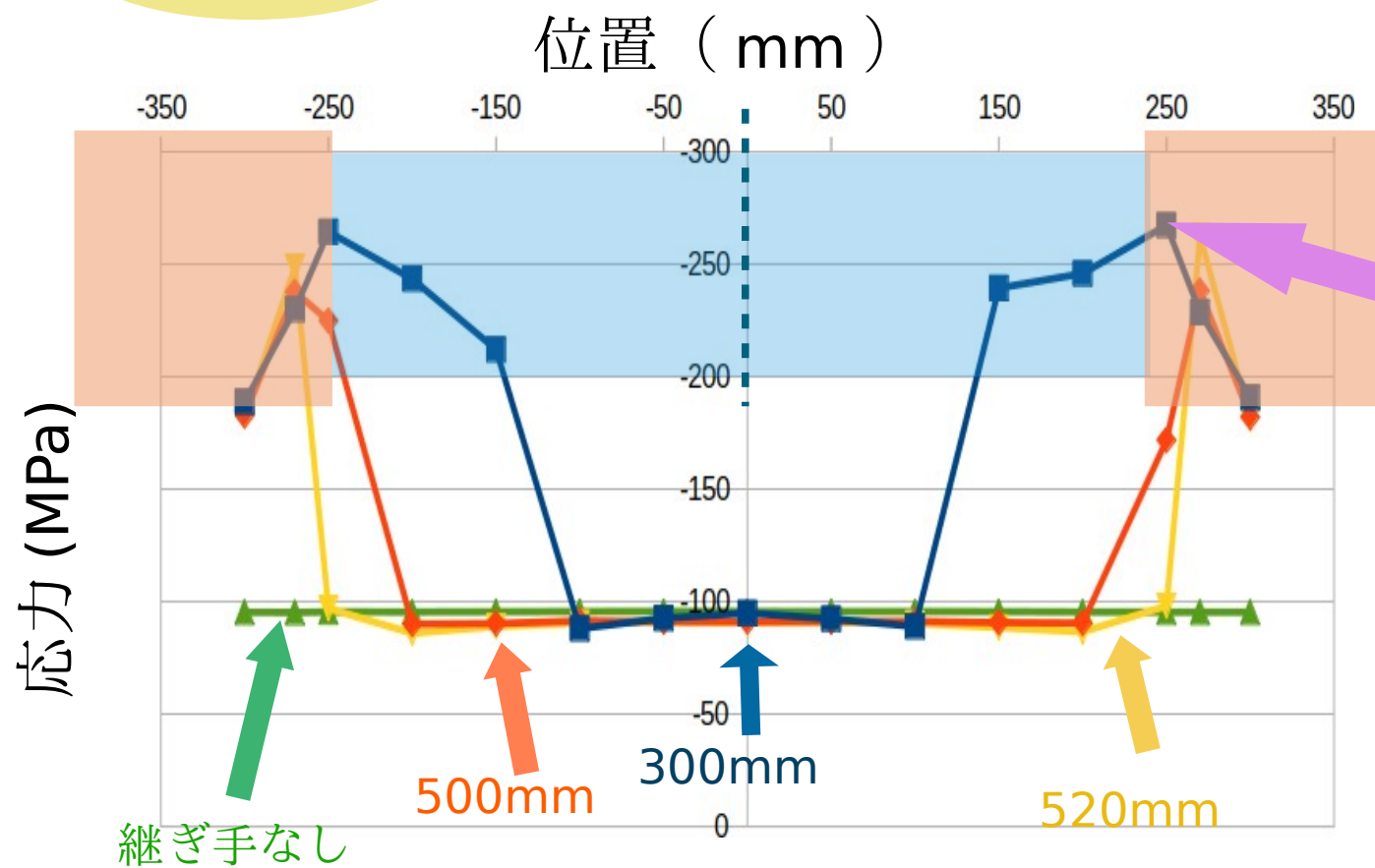
解析結果

6mm 鋼材



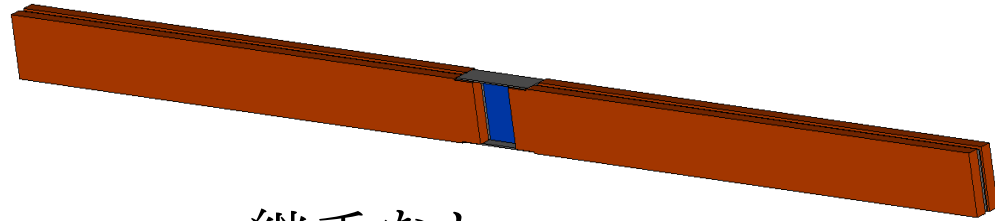
継ぎ手部まわりの応力分布

3m 積雪時

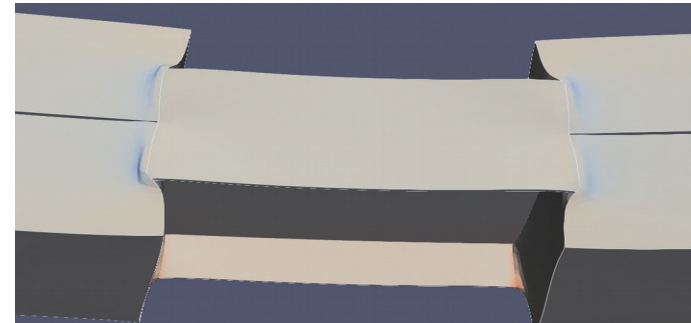
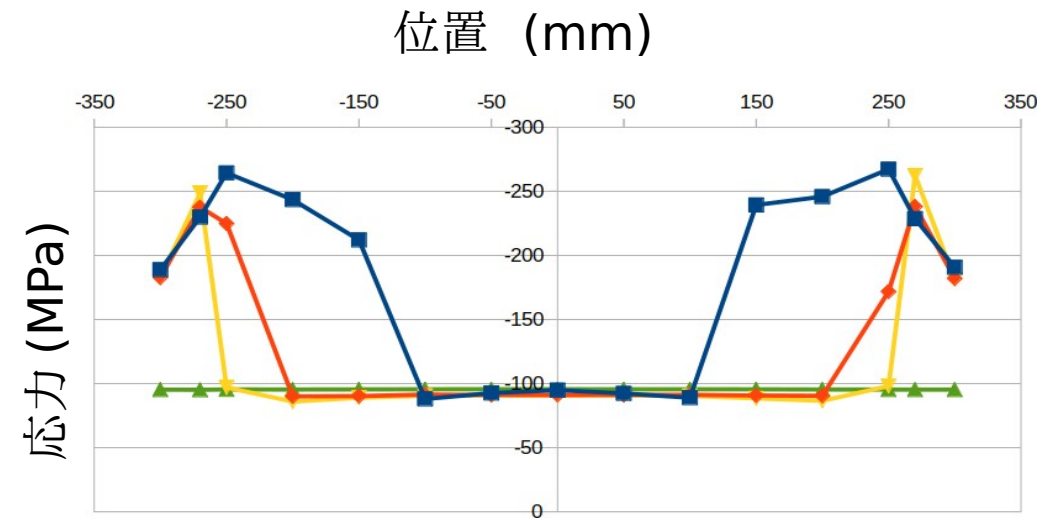
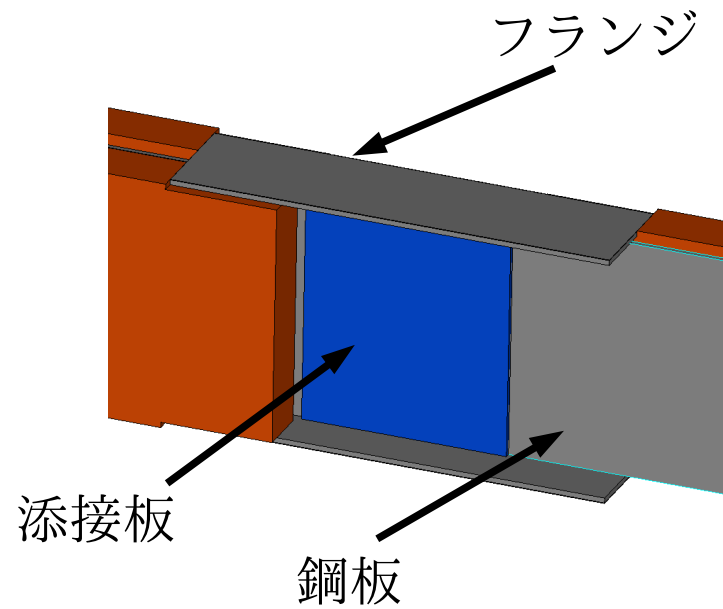
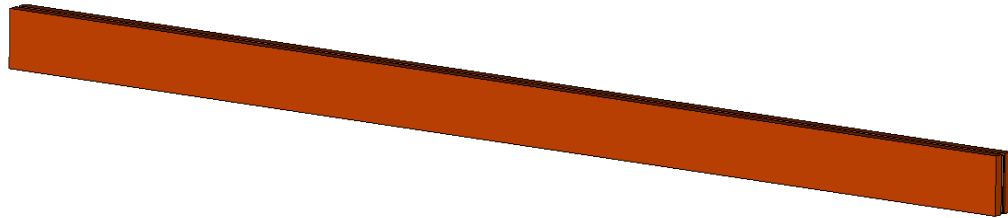


まとめ

継手あり



継手なし



今後の課題

- ・ 鋼材の集成材へのめり込み
- ・ 現実に近いモデル作成