Temperature Effects:

200 F No damage

350 F Typical oven

450 to 600 F Flame ignites

Fire Damage Evidence:

1. Soot no structural damage

2. Scorching smooth, shiny black surface

reduction in strength of only the outer surface

3. Charring alligatoring – wood is consumed,

effective cross-section reduced



- Typical Framing
 - Studs
 - Rafters
 - Joist
 - I-Joist
 - Wood trusses
 - Decks
- HeavyTimber
- Glued Lam

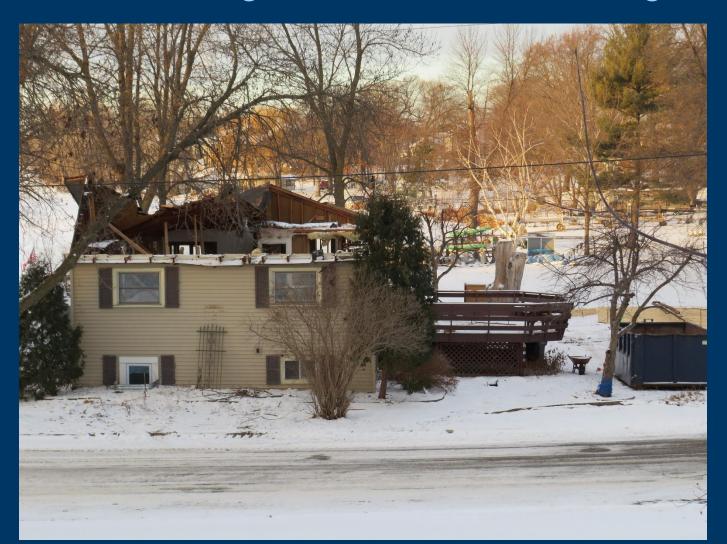




- Non-Fire (fire) Damage :
 - Smoke Damage
 - Holes cut in sheathing and structural members
 - Water:
 - Increased moisture content fungal growth
 - Ice and snow
 - Accumulated weight (overstress/collapse floors)
 - Water + collapsed materials + weakened members
 - Plywood/OSB swelling, curling, softening, deflection, delamination



Water Damage: What is water damage?





5. Wood Foundation





5. Wood Foundation

