

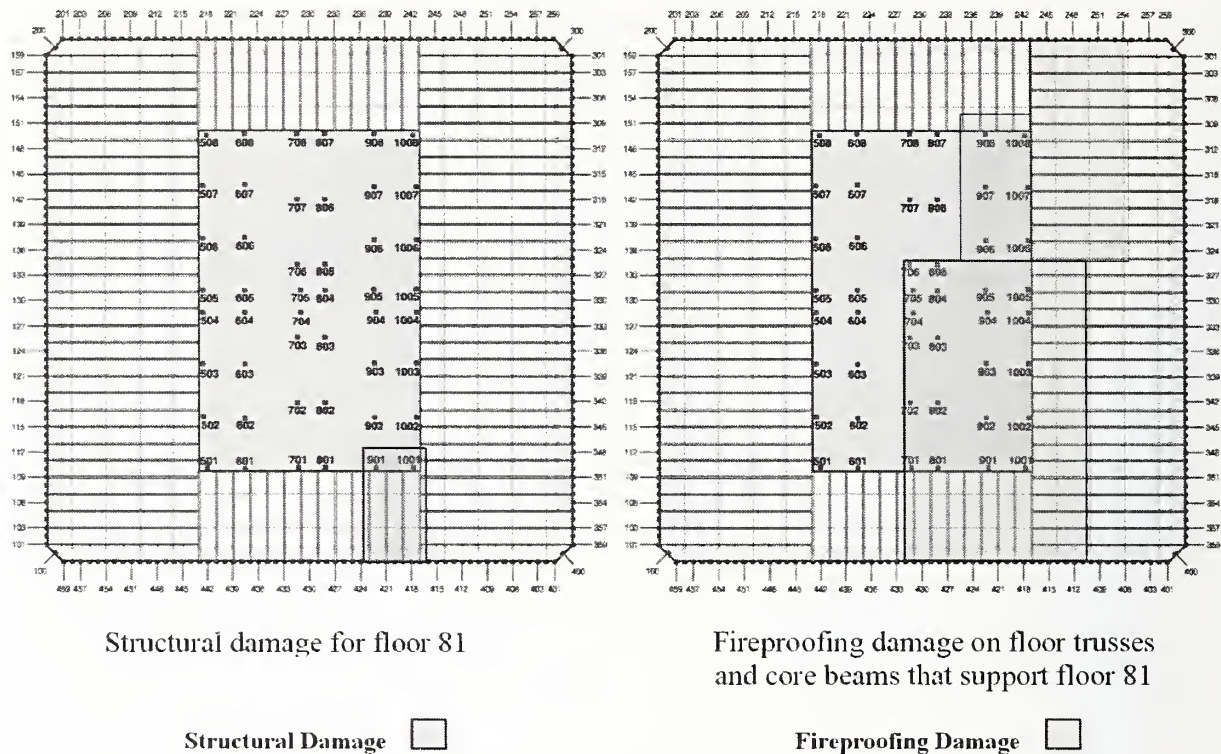


Figure 6–62. Structural and insulation damage on floor 81 of WTC 2, Case C.

Some heating of the trusses in the northwest corner was observed at 50 min to 60 min after impact. Although there was no insulation damage to the trusses in this region, the truss elements were covered with 0.6 in. of insulation, which allowed gradual heating in the region where there was fire activity. Fire simulations indicated less activity in the northeast corner on floor 80 compared to floors 81 and 82.

The perimeter columns above floor 81 showed significant heating due to lack of the insulation and intense fire activity in this area. This heating was observed over the entire east face and northeast corner. These perimeter columns reached temperatures above 600 °C at 30 min after impact. The rest of the perimeter columns stayed relatively cool. Core column heating was observed for the 1000 series columns above floor 81 due to a combination of insulation damage and fire activity in this area.

6.12.4 Floor 82

Figure 6–63 shows the structural and insulation damage on floor 82.