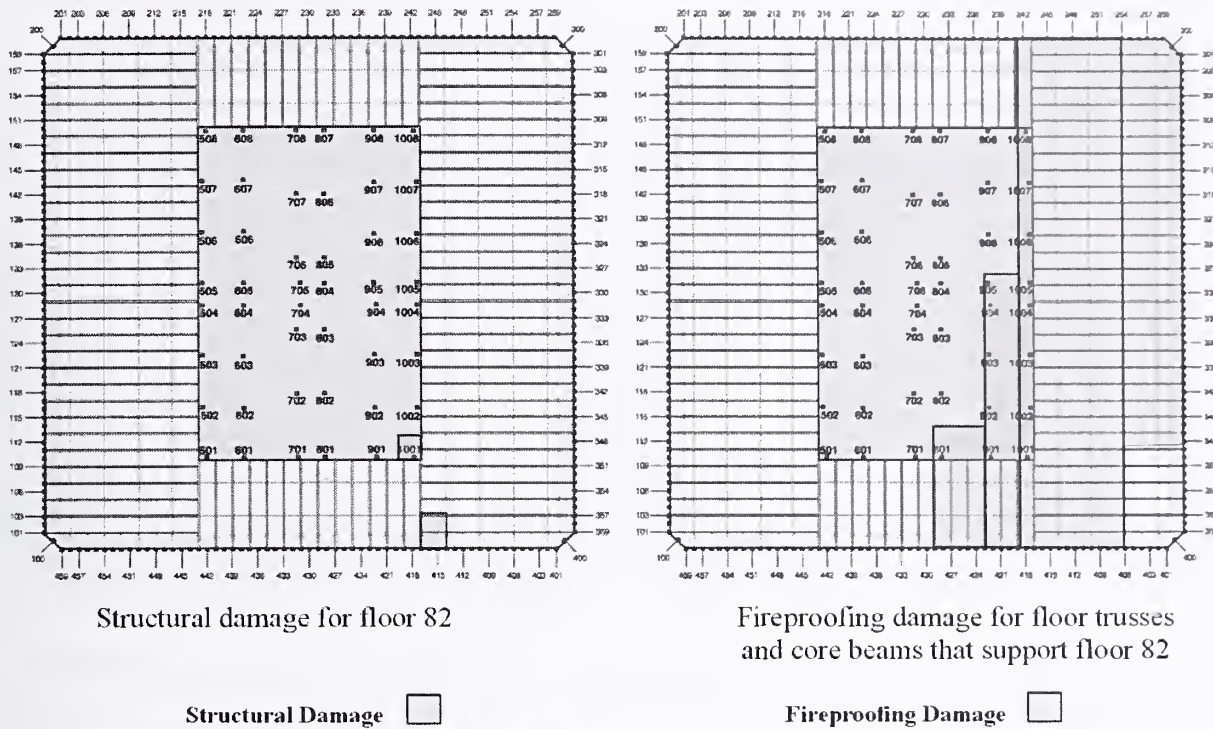




**Figure 6-63. Structural and insulation damage on floor 82 of WTC 2, Case C.**

The extensive insulation damage to the floor trusses and core beams on the east face of the tower resulted in significant heating of the trusses to over 675 °C for the entire duration of the simulation. Some heating was also observed in the southwest corner at 60 min after impact, due to the thinness of the insulation. The perimeter columns above floor 82 showed high temperatures at 40 min to 60 min after impact on the east face, and the core columns on the east side of the core also indicated thermal heating. The west side of the core stayed relatively cool, and there was very little activity in the northwest corner.

### 6.12.5 Floor 83

Figure 6-64 shows the structural and insulation damage on floor 83.

The thermal response of floor 83 was consistent with the insulation damage and the predicted fire activity on floors 82 and 83.