**CAFCO® BLAZE-SHIELD® Series**

**Floor w/ Concrete & Steel Deck**

- **2” NW/LW Concrete Topping**
  - **Protected**
  - **ASD**
    - Beam: D859, N/A^4, **
    - Joist: N/A^4, **
  - **LRFD**
    - Beam: N/A^2, N/A^2, **
    - Joist: N/A^2, N/A^2, **
  - **Concrete Slab**
    - Poured In Place
      - NW Concrete
        - **ASD**
          - Beam: J809, N823, N830
          - Joist: N/A^2, N860^23, N868
        - **LRFD**
          - Beam: N/A^2, N860^23, N868
          - Joist: N/A^2, N860^23, N868
      - LW Concrete
        - **ASD**
          - Beam: J809, N823, N830
          - Joist: N/A^2, N860^23, N868
        - **LRFD**
          - Beam: N/A^2, N860^23, N868
          - Joist: N/A^2, N860^23, N868
    - Precast / Hollowcore
      - NW Concrete
        - **ASD**
          - Beam: J809, N823, N830
          - Joist: N/A^2, N860^23, N868
        - **LRFD**
          - Beam: N/A^2, N860^23, N868
          - Joist: N/A^2, N860^23, N868
      - LW
        - **ASD**
          - Beam: J957, N823, N830
          - Joist: N/A^2, N860^23, N868
        - **LRFD**
          - Beam: N/A^2, N860^23, N868
          - Joist: N/A^2, N860^23, N868
    - Concrete "T’s"
      - NW
        - **ASD**
          - Beam: J805, N/A, N/A
          - Joist: N/A, N/A, N/A
        - **LRFD**
          - Beam: N/A, N/A, N/A
          - Joist: N/A, N/A, N/A

- **2-⅝” NW/LW Concrete Topping**
  - **Unprotected**
  - **ASD**
    - Beam: D832/D858, N823, N830
    - Joist: E701/E702^2, N860^23, N868
  - **LRFD**
    - Beam: D988^2, N860^23, N868
    - Joist: G809^2, N860^23, N868

- **9/16” or 1” Protected**
  - **ASD**
    - Beam: G801, N823, N830
    - Joist: G801, N823, N830
  - **LRFD**
    - Beam: G809^2, N860^23, N868
    - Joist: G809^2, N860^23, N868

- **1-5/8” Unprotected**
  - **ASD**
    - Beam: D902, N823, N830
    - Joist: N/A
  - **LRFD**
    - Beam: D988^2, N860^23, N868
    - Joist: N/A

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Refer to **Design concrete tables to determine eligibility**

^2Except for use in Canada, use only for 1.5+ hr. Restrained Assemblies / Restrained beams and with all joists. Otherwise for all 1 hr ratings and all Unrestrained Assemblies / Beams, refer to ‘ASD’ Designs

^3Refer to N823 unrestrained beam thicknesses for possible thickness reductions, which may be used in lieu of 1.5, 2, 3 or 4 hour restrained thickness

^4Refer to Assembly

**Contact Isolatex Technical**

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ASD = Allowable Strength Design (may be load limited), LRFD = Load and Resistance Factor Design (not load limited)

N/A = Not Available
CAFCO® BLAZE-SHIELD® Series

- **Roof-Ceiling with Steel Deck**
- **Steel Deck w/ Insulation (Protected)**
- **Steel Deck w/ LWI Concrete (Unprotected)**

**Assembly Beam Joist**
- **ASD**
  - Polystyrene: P825, S801, S803, S806
  - Polyurethane: P819, P826
  - Polyisocyanurate or MF Board: P819, P826

**LRFD Beam Joist**
- S812

**Columns**
- Wide Flange: X829
- Hollow: X827

**Walls**
- Steel Studs: U450
- Wood Studs: U357
- Corrugated Panels: U804

**Contact Isolatek Technical**

ASM = Allowable Stress Design (may be load limited), LRFD = Load and Resistance Factor Design (not load limited)

1Except for use in Canada, use only for 1.5+ hr. Restrained Assemblies / Restrained beams and all joists. Otherwise for all 1 hr ratings and all Unrestrained Assemblies / Beams, refer to 'ASD' Designs

2Refer to Assembly. You may be able to obtain most efficient thickness on beams and joists in the Assembly.

**Contact Isolatek Technical**