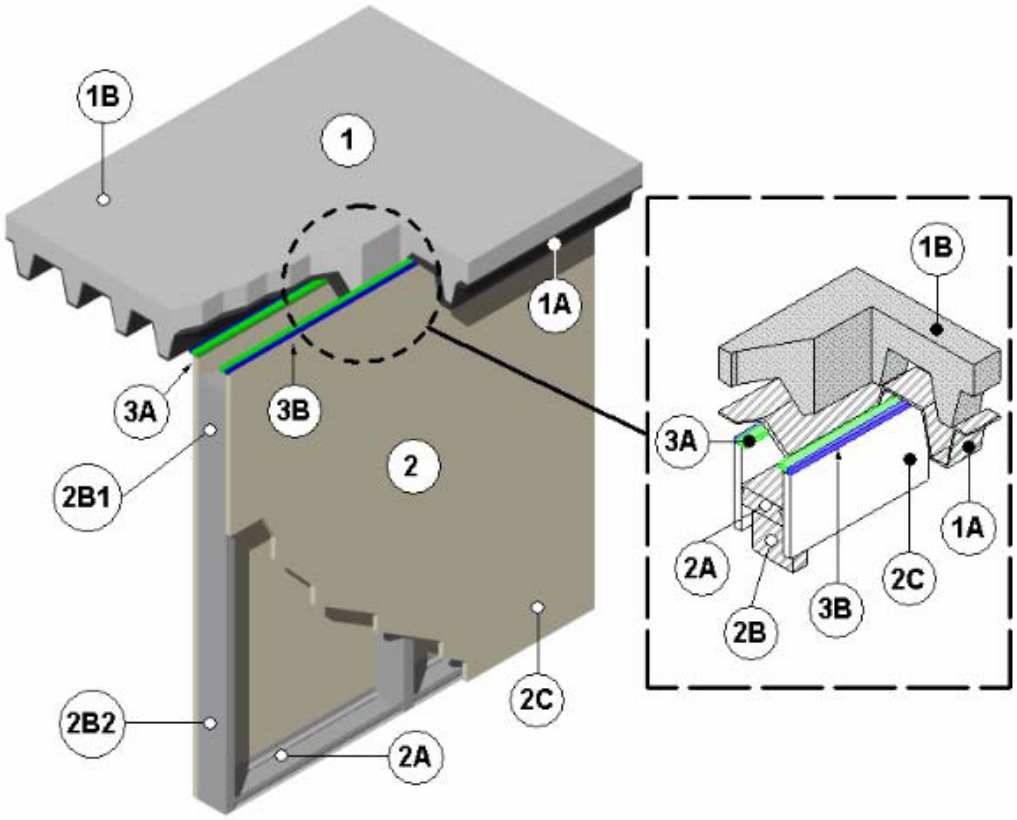
Design Number CD/NSMF 60-02
HEAD-OF-WALL JOINT SYSTEM
ClarkDietrich™ Building Systems
Trakloc® Steel Framing System
ASTM E 1966 – 1 hr
CAN/ULC-S115 FTH – 1 hr
ASTM E 1399/ASTM E 1966 – Cycling:
Class IV – Combined – 500 cycles @ 30 cpm
Rated for ± 18.25% vertical movement



1. FLOOR/CEILING ASSEMBLY – The floor/ceiling assembly consists of the following:

   A. Steel Floor and Steel Units – Minimum 18 GA steel fluted decking with open flutes measuring nominally 6-1/2 in. wide at the base, nominally 5-1/4 in. wide at the top, and nominally 3 in. deep. The direction of the flutes is parallel to the top of the wall assembly (Item 2).

   B. Concrete – Steel fluted decking (Item 1A) covered with normal weight concrete (approximately 150 pcf and nominally 2000 psi) nominally 2 in. deep at its minimum thickness above the flutes in the steel fluted decking (Item 1A).

2. WALL ASSEMBLY – Non-loadbearing wall assembly positioned perpendicular to the floor ceiling assembly (Item 1) and consisting of the following:

A. CERTIFIED COMPANY: ClarkDietrich™ Building Systems

CERTIFIED PRODUCT: Track

MODEL: 362TTS137-18

Tracks – Use two "C-shaped" roll formed nominal 0.0179 in. minimum thick steel tracks with nominal measurements 3-5/8 in. wide with two 1-3/8 in. vertical legs. Use nominal 3/16 in. diameter, 1-1/4 in. long, hex head concrete screws, to attach steel tracks. Attach one track perpendicular to the flutes on the bottom of floor/ ceiling assembly (Item 1) and attach the bottom track to the top of the lower floor/ceiling assembly (Item 1) aligned plumb with the top track.

B. CERTIFIED COMPANY: ClarkDietrich™ Building Systems

CERTIFIED PRODUCT: Telescoping Stud Deflection

MODEL: 362TSD125-18 and 362TSE125-18

Studs – Use "C-shaped" roll formed nominal 0.0179 in. minimum thick telescoping stud assembly nominally measuring 3-5/8 in. wide with two 1-1/4 in. vertical legs. Telescoping stud deflection consists of a 362TSD125-18 stud and a 362TSE125-18 extension stud inserted into the stud. Twist-and-lock telescoping stud assembly into the steel tracks (Item 2A) at nominal 24 in. on center (oc). No fasteners are required to secure the telescoping stud assembly to the steel floor tracks and ceiling runners (Item 2A).

C. Gypsum Board – Affix one layer of Type X 5/8 in. thick gypsum board to each side of the assembly. Attach base layer of Type X 5/8 in. thick gypsum board to each side of the tracks (Item 2A) and studs (Item 2B) using #8 1-1/2 in. long bugle head screws spaced nominally 8 in. oc in the field and around the perimeter. Place no screws nominally 4 in. from the top of the track (Item 2A) through the Type X 5/8 in. thick gypsum board. Create a nominal 1 in. head of wall joint at the top of the assembly by cutting and positioning the Type X 5/8 in. thick gypsum board shorter than the height between the steel tracks (Item 2A).

3. JOINT TREATMENT – Maximum 1 in. joint.

A. Joint Packing Material – Use only mineral wool bearing an Intertek Certified Product Label and meeting the following minimum requirements. Fill the joint created between the top of the flute in the steel fluted decking (Item 1A) and the top edge of the Type X 5/8-in. thick gypsum board (Item 2C) with 4 pcf mineral wool cut into two filler strips nominally measuring 1-1/2 in. wide by 3/8- in. thick by 24-in. long. Install the filler strips and compress their butt joints. Confirm nominal ¼-in. recess from the exposed face of the Type X 5/8-in. thick gypsum board (Item 2C) to the flush face of the mineral wool insulation.

B. CERTIFIED COMPANY: 3M Company

CERTIFIED PRODUCT: 3M Fire Barrier™ Joint Sealant

MODEL: Interam™ FireDam™ 150+

Fill, Void or Cavity Material – Fill the recess with sealant nominally measuring 1/4 in. thick. Trowel-apply sealant over all of the flute packing material and the joint packing material overlapping the sealant onto the Type X 5/8 in. thick gypsum board (Item 2C) at least 1/2 in.