1 HOUR SHAFTWALL WITH DEFLECTION TRACK

PARTITION - 1 HR
UL DESIGN: U499
UL DESIGN: W419

HEAD OF WALL - 1 HR
UL DESIGN: HW-D-0572

CONCRETE ON FLUTED STEEL DECK

MINERAL WOOL INSULATION
ELASTOMERIC SPRAY FIREFIRESTOP
STEEL TRACK - MECHANICALLY FASTEN 24" O.C. MAX.

5/8" FIRE-SHIELD GYPSUM BOARD
CT, CH, OR I STUDS 24" O.C.
1" FIRE-SHIELD SHAFTLINER
STEEL J TRACK - MECHANICALLY FASTEN 24" O.C. MAX.
FLEXIBLE SEALANT (OPTIONAL)

DATE: 09/01/18
SCALE: 3"=1'-0"
DETAIL: SW 103

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CONCRETE ON FLUTED STEEL DECK

HEAD OF WALL - 1 HR
UL DESIGN: HW-D-0548

PARTITION - 1 HR
UL DESIGN: U499
UL DESIGN: W419

DATE: 09/01/18
SCALE: 3"=1'-0"
DETAIL: SW 104

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1 HOUR SHAFTWALL WITH DEFLECTION TRACK

PARTITION - 1 HR
UL DESIGN: U499
UL DESIGN: W419

HEAD OF WALL - 1 HR
UL DESIGN: HW-D-0119

CONCRETE ON FLUTED STEEL DECK

PROFORM QUICK-SET FS-90 COMPOUND
MINERAL WOOL INSULATION
CUT GYPSUM BOARD PANELS TO FIT DECK CONFIGURATION
FIRE TRAK SHADOWLINE MECHANICALLY FASTEN 24" O.C. MAX.
TOP ROW OF FASTENERS 3" FROM TOP OF GYPSUM BOARD

5/8" FIRE-SHIELD GYPSUM BOARD
CT, CH, OR I STUDS 24" O.C.
1" FIRE-SHIELD SHAFTLINER
STEEL J TRACK - MECHANICALLY FASTEN 24" O.C. MAX.
FLEXIBLE SEALANT (OPTIONAL)

DATE: 09/01/18
SCALE: 3"=1'-0"
DETAIL: SW 106

© National Gypsum Properties, LLC
STEEL TRACK - MECHANICALLY FASTEN 24" O.C. MAX.
FLEXIBLE SEALANT (OPTIONAL)

CONCRETE ON FLUTED STEEL DECK

HEAD OF WALL - 1 HR
UL DESIGN: HW-D-0642
UL DESIGN: HW-D-0571

STEEL BEAM
SPRAY-APPLIED FIRE RESISTIVE MATERIAL
20 GA. Z-CLIPS @ 24" O.C. MAX., FASTEN BEFORE APPLICATION OF SPRAY ON FIREPROOFING
MINERAL WOOL INSULATION

ELASTOMERIC SPRAY FIRESTOP

5/8" FIRE-SHIELD GYPSUM BOARD
CT, CH, OR I STUDS 24" O.C.
1" FIRE-SHIELD SHAFTLINER

STEEL TRACK - MECHANICALLY FASTEN 24" O.C. MAX.
FLEXIBLE SEALANT (OPTIONAL)

PARTITION - 1 HR
UL DESIGN: U499
UL DESIGN: W419

1 HOUR SHAFTWALL PARTITION TO STEEL BEAM

DATE: 09/01/18
SCALE: 3"=1'-0"
DETAIL: SW 107

© National Gypsum Properties, LLC
1 HOUR SHAFTWALL PARTITION OFFSET FROM BEAM

DATE: 09/01/18
SCALE: 3"=1'-0"
DETAIL: SW 108

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CONCRETE ON FLUTED STEEL DECK

HEAD OF WALL - 2 HR
UL DESIGN: HW-D-0194
UL DESIGN: HW-D-0342

2 HOUR SHAFTWALL WITH DEFLECTION TRACK

PARTITION - 2 HR
UL DESIGN: U497
UL DESIGN: W419

FIRESTOP SEALANT
SLOTTED CEILING TRACK MECHANICALLY FASTEN 24" O.C. MAX.

2 LAYERS 5/8" FIRE-SHIELD GYPSUM BOARD
CT, CH, OR I STUDS 24" O.C.
1" FIRE-SHIELD SHAFTLINER
STEEL J TRACK - MECHANICALLY FASTEN 24" O.C. MAX.
FLEXIBLE SEALANT (OPTIONAL)

DATE: 09/01/18
SCALE: 3"=1'-0"
DETAIL: SW 203

© National Gypsum Properties, LLC
2 HOUR SHAFTWALL PARTITION AT STAIR

**DETAIL: SW 204**

**SCALE: 3"=1'-0"**

**DATE: 09/01/18**

**© National Gypsum Properties, LLC**

- **HEAD OF WALL - 2 HR**
  - UL DESIGN: HW-D-0548

- **PARTITION - 2 HR**
  - UL DESIGN: U498
  - UL DESIGN: W419

- **CONCRETE ON FLUTED STEEL DECK**
- **5/8" FIRE-SHIELD GYPSUM BOARD**
- **CT, CH, OR I STUDS 24" O.C.**
- **1" FIRE-SHIELD SHAFTLINER**
- **5/8" FIRE-SHIELD GYPSUM BOARD**
- **STEEL J TRACK - MECHANICALLY FASTEN 24" O.C. MAX.**
- **FLEXIBLE SEALANT (OPTIONAL)**
- **MINERAL WOOL INSULATION**
- **ELASTOMERIC SPRAY FIREFOSTOP**
- **STEEL DEEP LEG TRACK - MECHANICALLY FASTEN 24" O.C. MAX.**

**HORIZONTAL CONTROL JOINT 30'-0" O.C.**
2 LAYERS 5/8" FIRE-SHIELD GYPSUM BOARD

CT, CH, OR I STUDS 24" O.C.

1" FIRE-SHIELD SHAFTLINER

STEEL J TRACK - MECHANICALLY FASTEN 24" O.C. MAX.

FLEXIBLE SEALANT (OPTIONAL)

PROFORM QUICK-SET FS-90 COMPOUND

MINERAL WOOL INSULATION

CUT GYPSUM BOARD PANELS TO FIT DECK CONFIGURATION

FIRE TRAK SHADOWLINE MECHANICALLY FASTEN 24" O.C. MAX.

TOP ROW OF FASTENERS 3" FROM TOP OF GYPSUM BOARD

2 LAYERS 5/8" FIRE-SHIELD GYPSUM BOARD

CT, CH, OR I STUDS 24" O.C.

1" FIRE-SHIELD SHAFTLINER

STEEL J TRACK - MECHANICALLY FASTEN 24" O.C. MAX.

FLEXIBLE SEALANT (OPTIONAL)

CONCRETE ON FLUTED STEEL DECK

HEAD OF WALL - 2 HR
UL DESIGN: HW-D-0119

PARTITION - 2 HR
UL DESIGN: U497
UL DESIGN: W419

DATE: 09/01/18
SCALE: 3"=1'-0"
DETIAL: SW 206

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CONCRETE ON FLUTED STEEL DECK

STEEL BEAM
SPRAY-APPLIED FIRE RESISTIVE MATERIAL

20 GA. Z-CLIPS @ 24" O.C. MAX., FASTEN BEFORE APPLICATION OF SPRAY ON FIREPROOFING

MINERAL WOOL INSULATION

ELASTOMERIC SPRAY FIRESTOP

2 LAYERS 5/8" FIRE-SHIELD GYPSUM BOARD

CT, CH, OR I STUDS 24" O.C.

1" FIRE-SHIELD SHAFTLINER

STEEL J TRACK - MECHANICALLY FASTEN 24" O.C. MAX.

FLEXIBLE SEALANT (OPTIONAL)

HEAD OF WALL - 2 HR
UL DESIGN: HW-D-0642
UL DESIGN: HW-D-0571

PARTITION - 2 HR
UL DESIGN: U497
UL DESIGN: W419

DATE: 09/01/18
SCALE: 3"=1'-0"
DETAIL: SW 207
CONCRETE ON FLUTED STEEL DECK

STEEL BEAM

SPRAY-APPLIED FIRE RESISTIVE MATERIAL

3/8" DIAMOND MESH EXPANDED STEEL LATH

MINERAL WOOL INSULATION

1 1/2" Z FURRING OR CHANNELS 24" O.C.

ELASTOMERIC SPRAY FIRESTOP

2 LAYERS 5/8" FIRE-SHIELD GYPSUM BOARD

CT, CH, OR I STUDS 24" O.C.

1" FIRE-SHIELD SHAFTLINER

STEEL J TRACK - MECHANICALLY FASTEN 24" O.C. MAX.

FLEXIBLE SEALANT (OPTIONAL)

PARTITION - 2 HR
UL DESIGN: U497
UL DESIGN: W419

HEAD OF WALL - 2 HR
UL DESIGN: HW-D-0645
UL DESIGN: HW-D-0636

SCALE: 3"=1'-0"
CONCRETE ON FLUTED STEEL DECK

MINERAL WOOL INSULATION

ELASTOMERIC SPRAY FIRESTOP

STEEL DEEP LEG TRACK - MECHANICALLY FASTENED 24" O.C. MAX.

3" MINERAL WOOL INSULATION

3/4" ULTRA-SHIELD FS GYPSUM BOARD

MIN. 4" CT, CH, OR I STUDS 24" O.C.

1" FIRE-SHIELD SHAFTLINER

STEEL J TRACK - MECHANICALLY FASTENED 24" O.C. MAX.

FLEXIBLE SEALANT (OPTIONAL)

HEAD OF WALL - 2 HR
UL DESIGN: HW-D-0548

PARTITION - 2 HR
UL DESIGN: W441
UL DESIGN: W419

DATE: 09/01/18
SCALE: 3"=1'-0" DETAIL: SW 209

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CONCRETE OR FLUTED STEEL DECK

FIRESTOP SEALANT

STEEL J TRACK - MECHANICALLY FASTEN 24" O.C. MAX.

2 LAYERS 5/8" FIRE-SHIELD C GYPSUM BOARD

7/8" STEEL FURRING CHANNELS 16" O.C.

3 LAYERS 5/8" FIRE-SHIELD C GYPSUM BOARD

CT, CH, OR I STUDS 24" O.C.

1" FIRE-SHIELD SHAFTLINER

STEEL J TRACK - MECHANICALLY FASTEN 24" O.C. MAX.

FLEXIBLE SEALANT (OPTIONAL)
PARTITION - 2 HR
UL DESIGN: U497
UL DESIGN: W419

PARTITION - 1 HR
UL DESIGN: U499
UL DESIGN: W419

SHAFTWALL END CONDITIONS

DATE: 09/01/18
SCALE: 6"=1'-0"
DETAIL: SW 601
1 HOUR SHAFTWALL CORNER DETAIL

CT, CH, OR I STUDS

5/8" FIRE-SHIELD GYPSUM BOARD

1" FIRE-SHIELD SHAFTLINER

STEEL J TRACK

1" FIRE-SHIELD SHAFTLINER

1" FIRE-SHIELD SHAFTLINER
5/8" FIRE-SHIELD GYPSUM BOARD

2" x 2" 20 GA. ANGLE FASTENED TO J TRACK WITH TWO 3/8" PAN-HEAD SCREWS AT CEILING AND TWO AT FLOOR

12" MAX.

DATE: 09/01/18

1 HOUR SHAFTWALL CORNER DETAIL

SCALE: 6"=1'-0"

DETAIL: SW 612

© National Gypsum Properties, LLC
1" FIRE-SHIELD SHAFTLINER
CT, CH, OR I STUDS
STEEL J TRACK
PAN-HEAD SCREW 24" O.C.
1" FIRE-SHIELD SHAFTLINER
5/8" FIRE-SHIELD GYPSUM BOARD
1" FIRE-SHIELD SHAFTLINER
STEEL J TRACK
STEEL J TRACK
5/8" FIRE-SHIELD GYPSUM BOARD
2" x 2" 20 GA. ANGLE FASTENED TO J TRACK WITH 3/8" PAN-HEAD SCREWS 24 O.C.

1" FIRE-SHIELD SHAFTLINER

STEEL J TRACK

PAN-HEAD SCREW 24" O.C.

1" FIRE-SHIELD SHAFTLINER

STEEL J TRACK

CT, CH, OR I STUDS
2 LAYERS 5/8" FIRE-SHIELD GYPSUM BOARD

STEEL J TRACK

PAN-HEAD SCREW 24" O.C.

STEEL J TRACK

1" FIRE-SHIELD SHAFTLINER

CT, CH, OR I STUDS

2 LAYERS 5/8" FIRE-SHIELD GYPSUM BOARD
2 LAYERS 5/8" FIRE-SHIELD GYPSUM BOARD

1" FIRE-SHIELD SHAFTLINER

STEEL J TRACK

STEEL J TRACK

1" FIRE-SHIELD SHAFTLINER

1" FIRE-SHIELD SHAFTLINER

CT, CH, OR I STUDS
2 HOUR SHAFTWALL CORNER DETAIL

CT, CH, OR I STUDS

1" FIRE-SHIELD SHAFTLINER

2 LAYERS 5/8" FIRE-SHIELD GYPSUM BOARD

2" x 2" 20 GA. ANGLE FASTENED TO J TRACK WITH TWO 3/8" PAN-HEAD SCREWS AT CEILING AND TWO AT FLOOR

1" FIRE-SHIELD SHAFTLINER

2" x 2" 20 GA. ANGLE FASTENED TO J TRACK WITH TWO 3/8" TYPE S-12 SCREWS AT CEILING AND TWO AT FLOOR

DATE: 09/01/18
SCALE: 6"=1'-0"
DETAIL: SW 622

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2 LAYERS 5/8" FIRE-SHIELD GYPSUM BOARD

CT, CH, OR I STUDS

1" FIRE-SHIELD SHAFTLINER

STEEL J TRACK

PAN-HEAD SCREW 24" O.C.

STEEL J TRACK

1" FIRE-SHIELD SHAFTLINER

1" FIRE-SHIELD SHAFTLINER

DATE: 09/01/18

SCALE: 6"=1'-0"

2 HOUR SHAFTWALL CORNER DETAIL

DETAIL: SW 623

© National Gypsum Properties, LLC
2 LAYERS 5/8" FIRE-SHIELD
GYPSUM BOARD

2" x 2" 20 GA. ANGLE
FASTENED TO J TRACK
WITH 3/8" PAN-HEAD
SCREWS 24 O.C.

1" FIRE-SHIELD
SHAFTLINER

STEEL J TRACK

PAN-HEAD SCREW
24" O.C.

1" FIRE-SHIELD
SHAFTLINER

CT, CH, OR I STUDS

STEEL J TRACK
2 LAYERS 5/8" FIRE-SHIELD GYPSUM BOARD

STEEL J TRACK

1" FIRE-SHIELD SHAFTLINER

2 LAYERS 5/8" FIRE-SHIELD GYPSUM BOARD

CT, CH, OR I STUDS

1" FIRE-SHIELD SHAFTLINER
CONCRETE ON FLUTED STEEL DECK

5/8" FIRE-SHIELD GYPSUM BOARD

CT, CH, OR I STUDS 24" O.C.

1" FIRE-SHIELD SHAFTLINER

STEEL J TRACK - MECHANICALLY FASTEN 24" O.C. MAX.

CONCRETE ON FLUTED STEEL DECK

FLEXIBLE SEALANT (OPTIONAL)

5/8" FIRE-SHIELD GYPSUM BOARD

CT, CH, OR I STUDS 24" O.C.

1" FIRE-SHIELD SHAFTLINER

SHAFTWALL OVERHANG AT SLAB EDGE

DATE: 09/01/18
SCALE: 6"=1'-0"
DETAIL: SW 650

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J TRACK CUT AND FOLDED TO FRAME DUCT AND FASTENED WITH PAN-HEAD SCREWS
SEE DETAIL A

J TRACK HEADERS WITH WEBS CUT TO RECEIVE STUDS, FASTEN WITH PAN-HEAD SCREWS
SEE DETAIL B

J TRACK

CEILING LINE

CT, CH, OR I STUDS 24" O.C.

J TRACK CUT AND FOLDED TO FRAME DUCT AND FASTENED WITH PAN-HEAD SCREWS
SEE DETAIL A

J TRACK

CUT WEB FROM J TRACK TO RECEIVE CT STUD, FASTEN WITH PAN-HEAD SCREWS

DETAIL A

DETAIL B
Framing not required around duct when confined to one stud bay.

- J Track
- Ceiling line
- CT, CH, or I studs 24" o.c.
- J Track
VERTICAL - 2 HR
UL DESIGN: U497
HORIZONTAL - 2 HR
UL DESIGN: G586

2 HOUR HORIZONTAL DUCT PROTECTION

MECHANICALLY FASTEN
STEEL J TRACK 24" O.C.

FLEXIBLE SEALANT
(OPTIONAL)
1/2" TYPE S OR S-12
PAN-HEAD SCREWS
(TWO PER STUD)

1" FIRE-SHIELD
SHAFTLINER

2 1/2" CT STUDS 24" O.C.

2 LAYERS 5/8" FIRE-SHIELD
GYPSUM BOARD

1/2" TYPE S OR S-12
PAN-HEAD SCREW
24" O.C.

J TRACK FASTENED
24" O.C.

3 LAYERS 5/8"
FIRE-SHIELD C
GYPSUM BOARD

2 HR RATED WALL
ASSEMBLY

J TRACK FASTENED TO
STUDS 24" O.C. MAX.

2 HR RATED FLOOR-CEILING
ASSEMBLY

4" CT STUDS 24" O.C.

83
2 HOUR HORIZONTAL DUCT PROTECTION

- MECHANICALLY FASTEN STEEL J TRACK 24" O.C.
- FLEXIBLE SEALANT (OPTIONAL)
  1/2" TYPE S OR S-12 PAN-HEAD SCREWS (TWO PER STUD)
- DUCT
- 1" FIRE-SHIELD SHAFTLINER
- 2 1/2" I-STUDS 24" O.C.
- 2 LAYERS 1/2" FIRE-SHIELD C GYPSUM BOARD
- 1/2" TYPE S OR S-12 PAN-HEAD SCREW 24" O.C.
- J TRACK FASTENED 24" O.C.
- J TRACK FASTENED TO STUDS 24" O.C. MAX.
- 2 HR RATED WALL ASSEMBLY
- 3 LAYERS 1/2" FIRE-SHIELD C GYPSUM BOARD
  2-1/2" I-STUDS 24" O.C.