

LIGHTWEIGHT STEEL FRAMING DETAILS **GENERAL & AXIAL LOADBEARING**









MONTREAL • TORONTO • CALGARY • EDMONTON • VANCOUVER





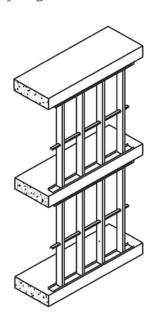


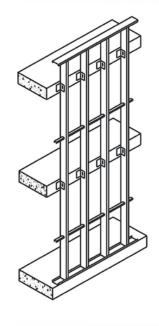




WALL ELEVATIONS

Bailey Wind Bearing Walls (BWB) Lightweight Steel Framing (LSF) provides economical structural support for finishes under lateral wind loads on buildings where other structural components carry axial loads. BWB walls can be designed for a variety of deflection limits for finishes such as EIFS, Stucco, Metal Panel and Brick Veneer. Wind-Bearing LSF may be used in buildings of any height.

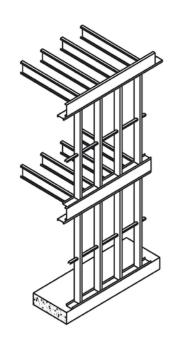




EXTERIOR INFILL WALLS / CONTINUOUS EXTERIOR CURTAIN WALLS

Bailey Axial Loadbearing

Walls (BAB) Lightweight Steel Framing (LSF) supports the combined axial and wind loads on interior and exterior walls. Buildings up to six stories in height can be framed using LSF. LSF works with a variety of floors including LSF Joists, ComSlab® composite flooring systems, OWSJ's and hollow precast concrete.

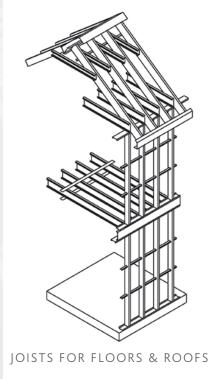


AXIAL LOAD BEARING WALLS



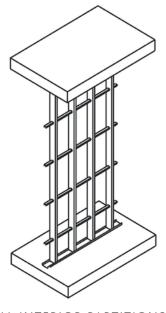
Bailey Joists for Floors & Roofs

Lightweight Steel Framing (LSF) Joists offer a wide range of span and load capabilities for commercial and residential floor systems and mezzanines. LSF ceiling Joist members can also be utilized for pitched, mansard and flat roofs. The use of Bailey LSF Joist members will provide support for interior drywall ceilings where long clear spans are required.



Bailey Non-Loadbearing

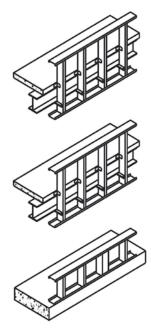
Walls (BNLB) Lightweight Steel Framing (LSF) provides an effective solution for interior non-load bearing walls and partitions. When combined with top track deflection members, bulkheads will resist buckling caused by deflection of floor and roof assemblies. Non-load bearing LSF provides a stable framework for drywall or other finished wall surface applications.



TALL INTERIOR PARTITIONS

Bailey Spandrel Walls

Lightweight Steel Framing (LSF) accommodates a variety of spans for continuous strip window applications. LSF provides a stable, square platform in which glazing units and frames can be effectively installed.



SPANDREL WALLS FOR CONTINUOUS STRIP WINDOWS

The material presented in this document has been prepared for the general information of the reader. While the material is believed to be technically correct and in accordance with recognized good practice, it should not be used without first securing competent advice with respect to its suitability for any specific application. Bailey Metal Products Limited does not warrant or assume liability for the suitability of the material for any general or particular use.





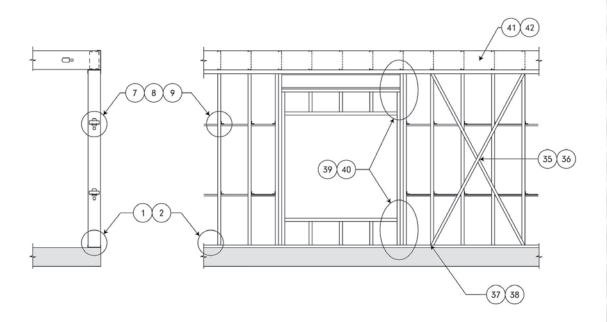




WALL ELEVATIONS

AXIAL LOADBEARING WALL

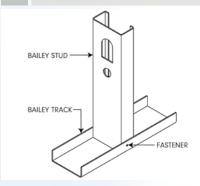
In axial loadbearing construction, some form of bracing is required to resist wind, seismic and sway effects produced by vertical loads acting on the structure (the P-delta effect). Diagonal tension straps are normally the most economical means of providing this bracing. Diagonal straps are typically installed in pairs to form the X pattern over the face of the studs. Strap end connections must be engineered to transfer the full design load and account for horizontal and vertical strap reactions.



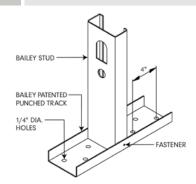


GENERAL DETAILS

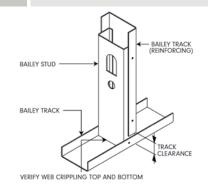
BAILEY STUD TO **BAILEY TRACK**



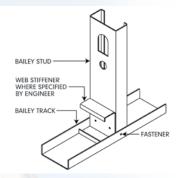
BAILEY STUD TO BAILEY PATENTED PUNCHED TRACK



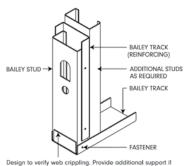
BAILEY STUD REINFORCED WITH BAILEY TRACK



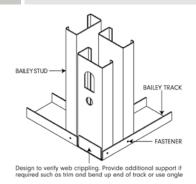
BAILEY STUD WITH WEB STIFFENER REINFORCING



IAMB STUD AT DOOR OPENING

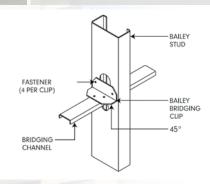


BAILEY STUD TO BAILEY TRACK AT CORNERS

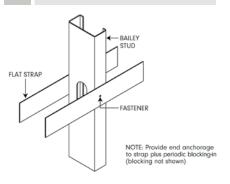


Design to verify web crippling. Provide additional support if required such as trim and bend up end of track or use angle

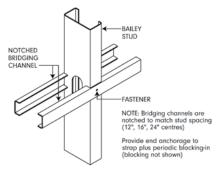
THROUGH-THE-STUD BRIDGING



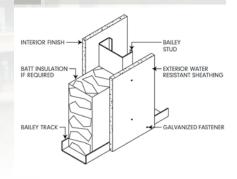
FLAT STRAP BRIDGING



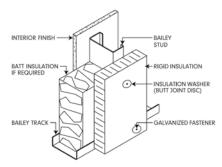
NOTCHED CHANNEL BRIDGING



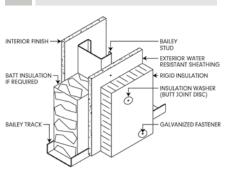
EXTERIOR SHEATHING



EXTERIOR RIGID INSULATION



EXTERIOR SHEATHING AND RIGID INSULATION





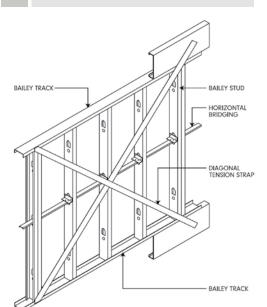




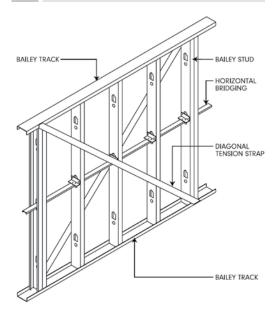


AXIAL LOADBEARING WALLS

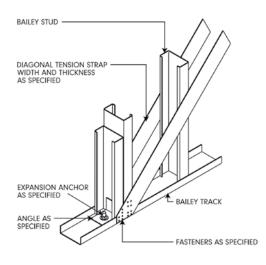
DIAGONAL TENSION STRAPS ONE SIDE



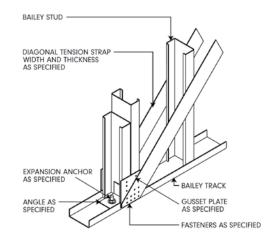




TENSION STRAP CONNECTION



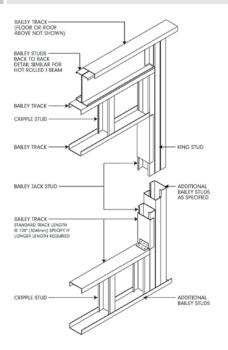
TENSION STRAP CONNECTION WITH GUSSET PLATES



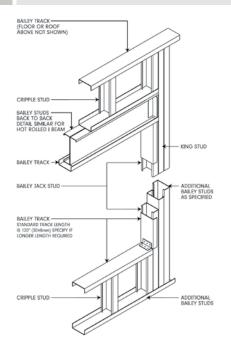


AXIAL LOADBEARING WALLS

WALL OPENING WITH UPPER LINTEL

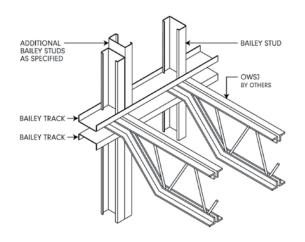


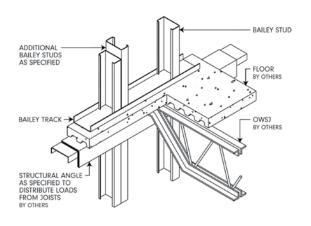
WALL OPENING WITH LOWER LINTEL



OPEN WEB STEEL JOISTS IN LINE WITH AXIAL LOADBEARING STEEL STUDS

OPEN WEB STEEL JOISTS OFFSET TO AXIAL LOADBEARING STEEL STUDS

















LIGHTWEIGHT STEEL FRAMING DETAILS GENERAL & AXIAL LOADBEARING

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