

HIGH WIND RESISTANCE CONSTRUCTION GUIDE



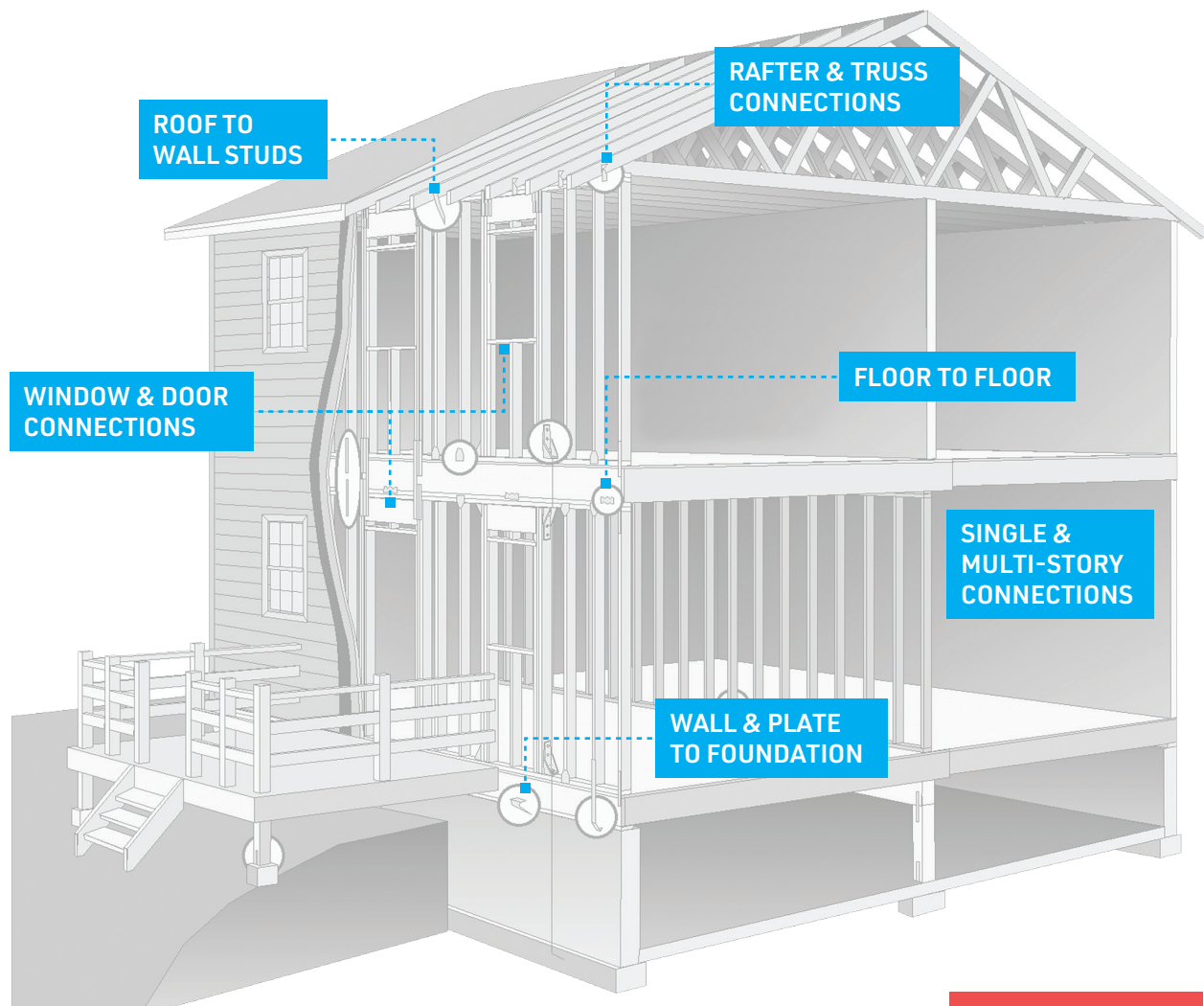
VALUES FOR DOUGLAS FIR – LARCH (DF)

Continuous Load Path

Research and field investigations have proven wood frame buildings fail at connection points.

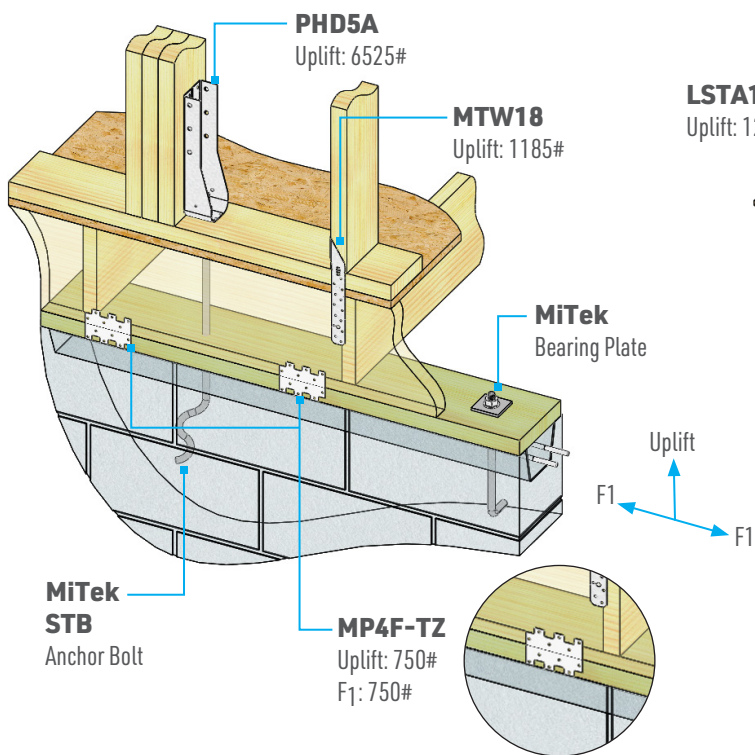
Wood buildings can survive high wind loads when structurally rated and tested lumber connectors are used to develop a continuous load path, effectively transferring loads from roof to foundation.

This guide illustrates structurally-rated products manufactured by MiTek, to aid the designer in achieving continuous load paths. All load values published in this guide are at a 1.6 load duration factor. Refer to the **MiTek Product Catalog** or appropriate code evaluation reports for nail schedules, installations, and product information at MiTek-US.com.

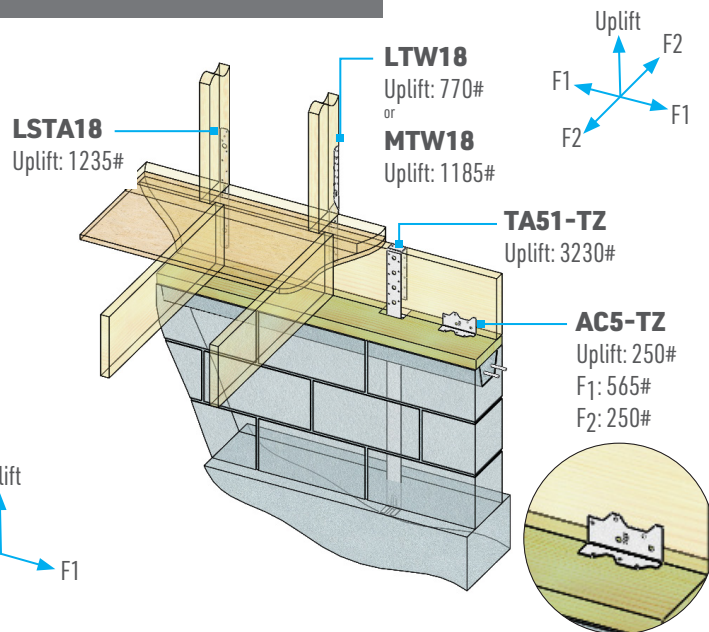


FOUNDATION CONNECTIONS

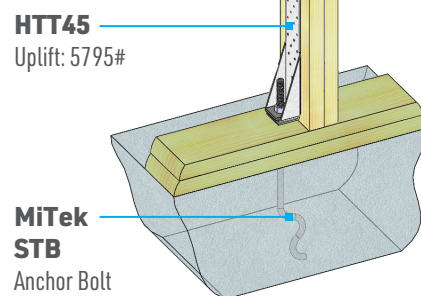
FOUNDATION OUTSIDE VIEW



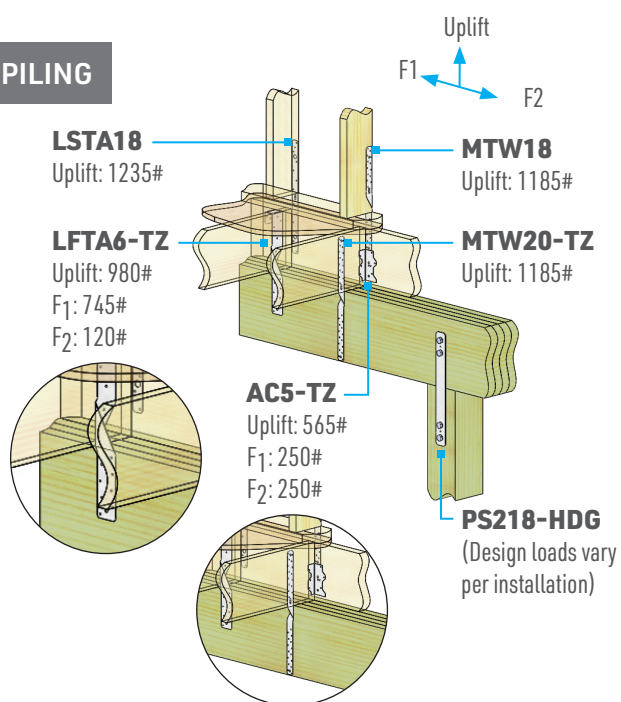
FOUNDATION INSIDE VIEW



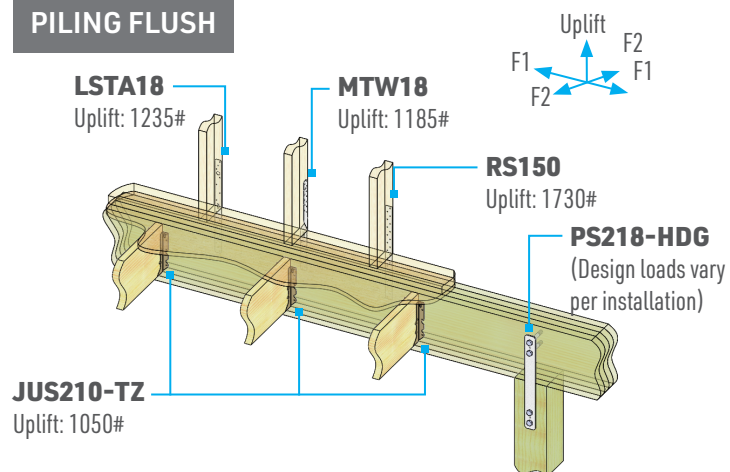
MONO CONCRETE SLAB



PILING



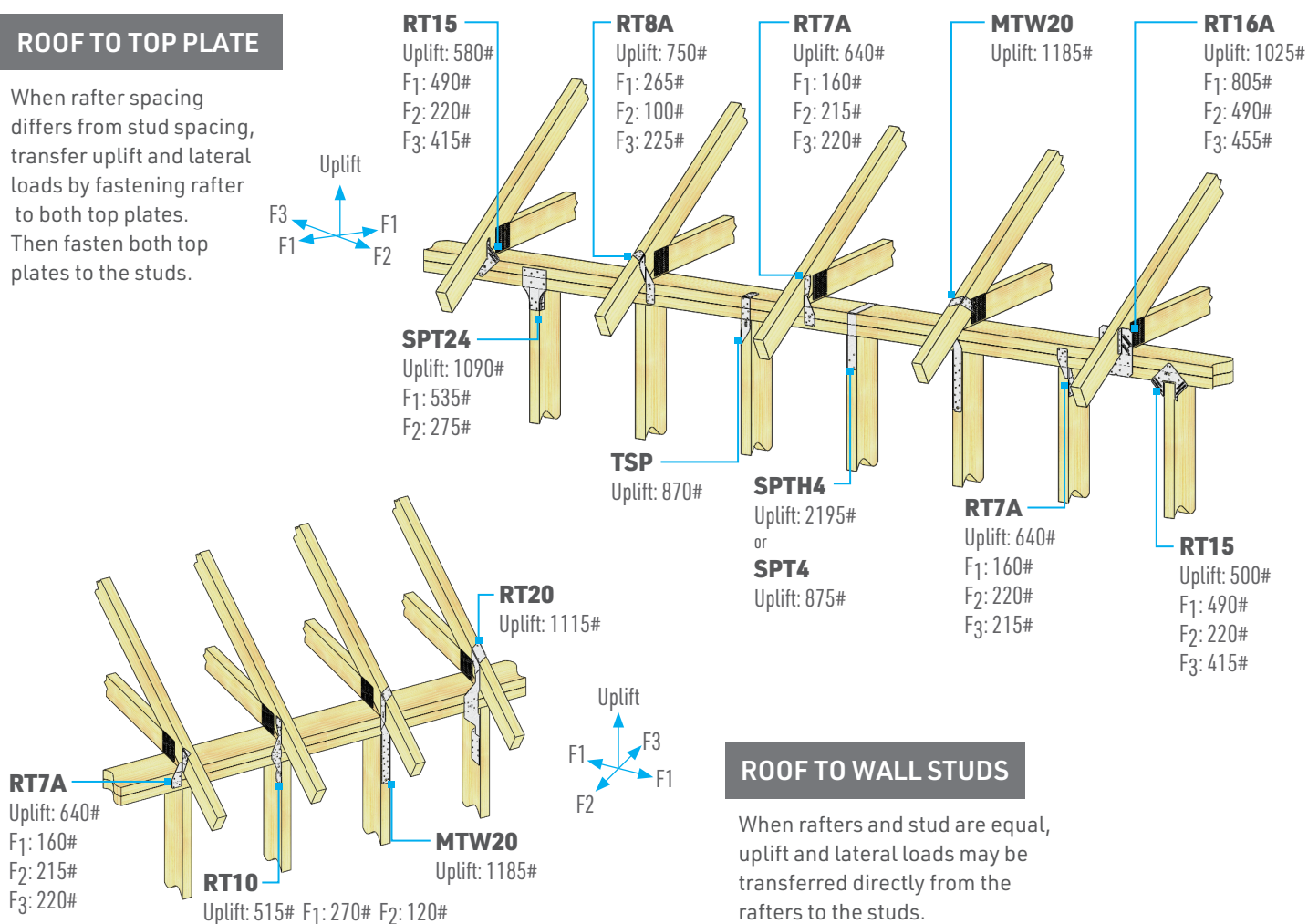
PILING FLUSH



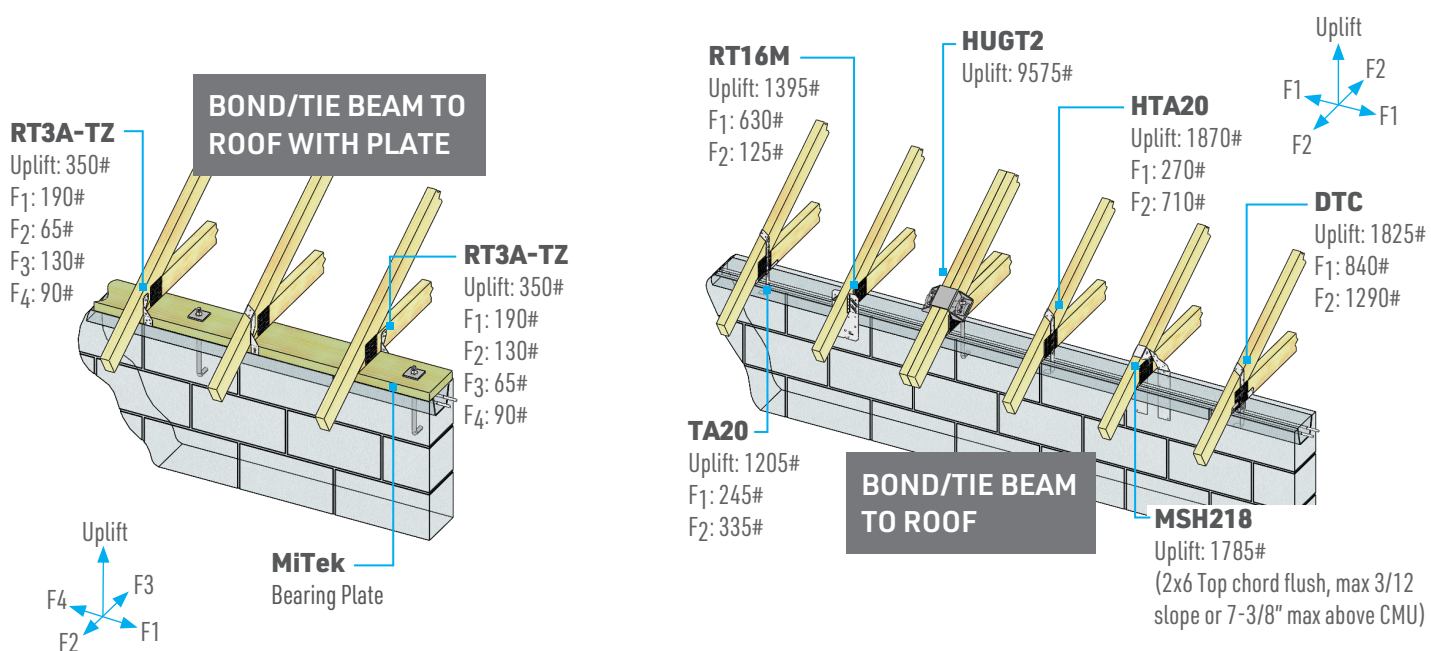
RAFTER AND TRUSS CONNECTIONS

ROOF TO TOP PLATE

When rafter spacing differs from stud spacing, transfer uplift and lateral loads by fastening rafter to both top plates. Then fasten both top plates to the studs.

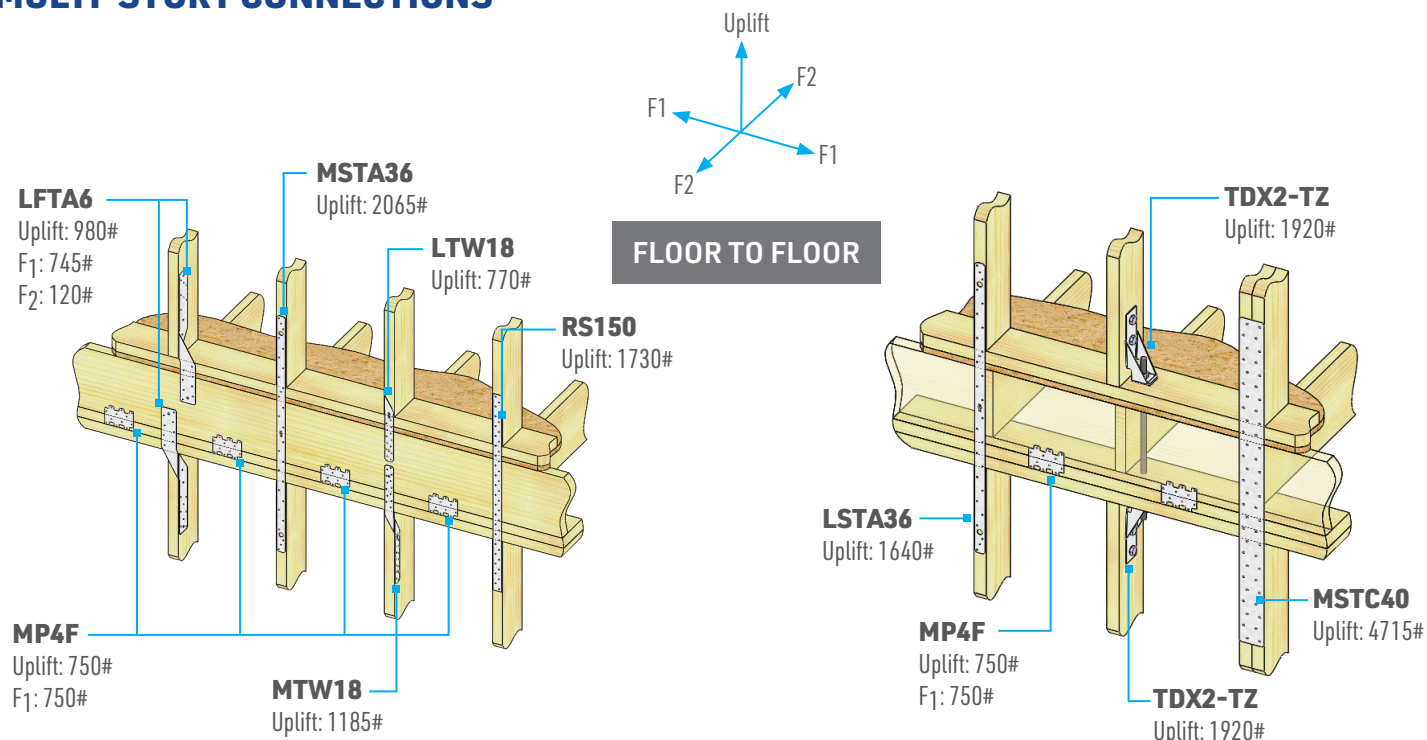


MASONRY WALLS TO RAFTER OR TRUSS

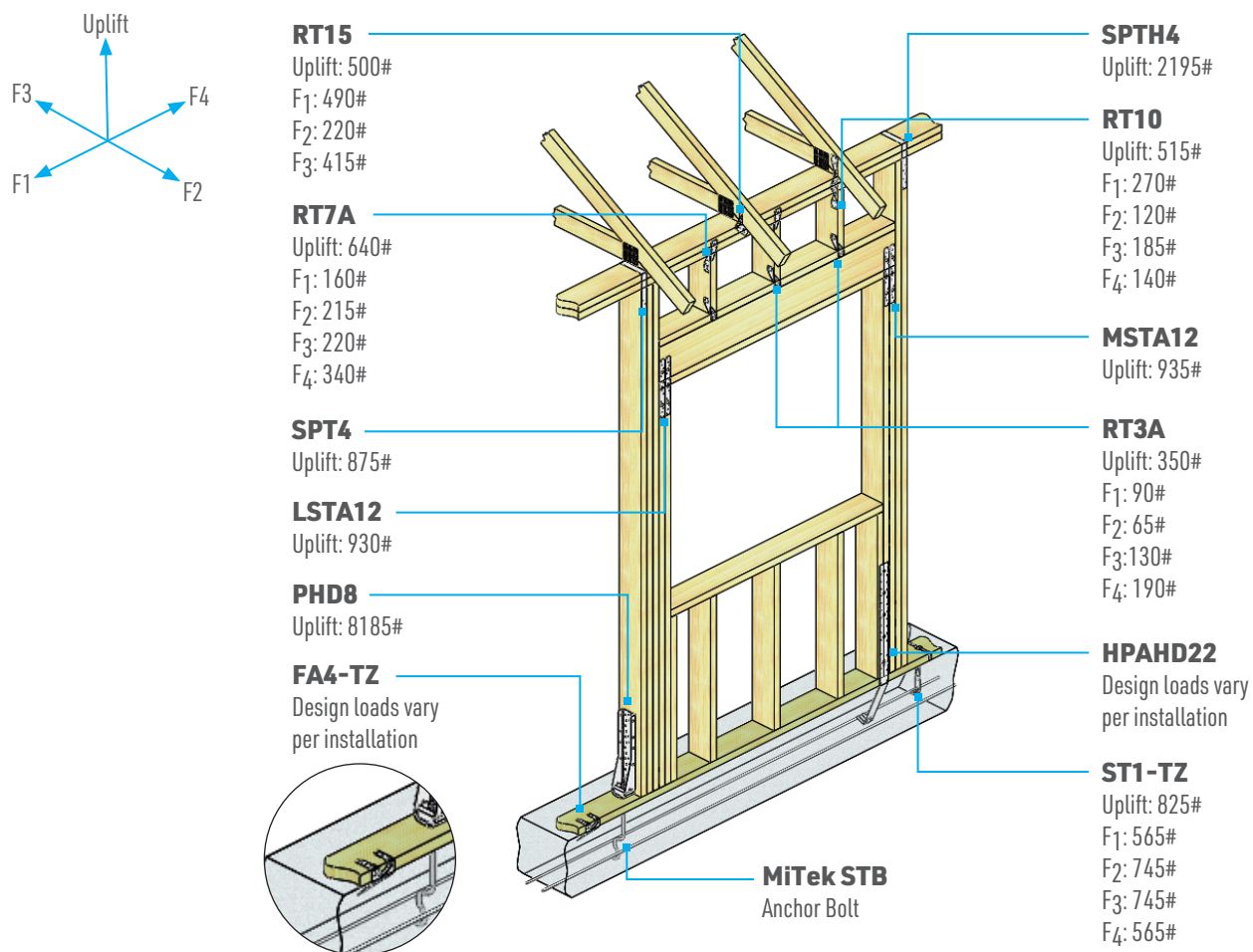


For fastener schedules, installation, and load information to masonry walls refer to MiTek's Masonry Application Technical Bulletins: MiTek-us.com/resources/product/technical-bulletins-masonry-application/

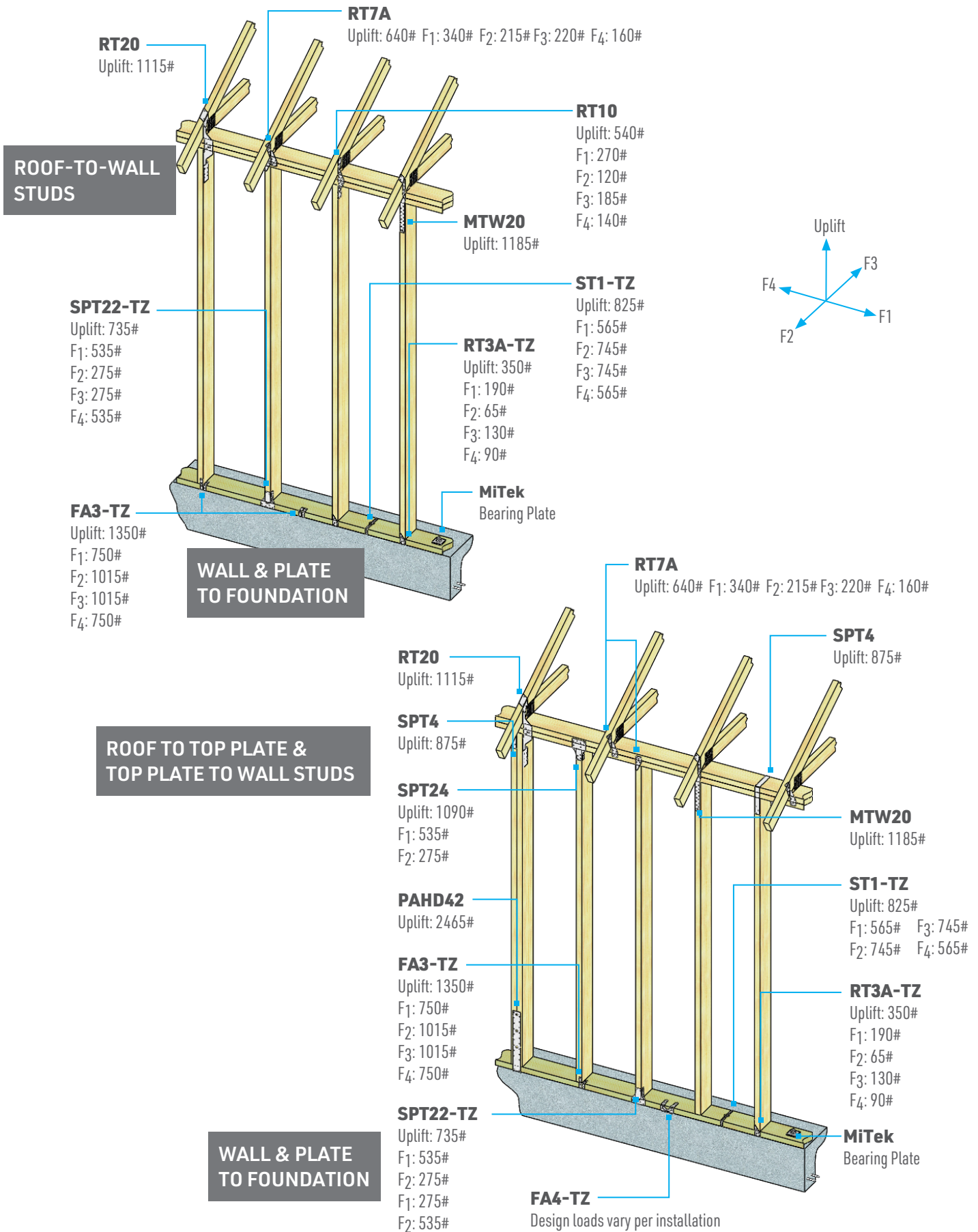
MULTI-STORY CONNECTIONS



WINDOW AND DOOR OPENINGS

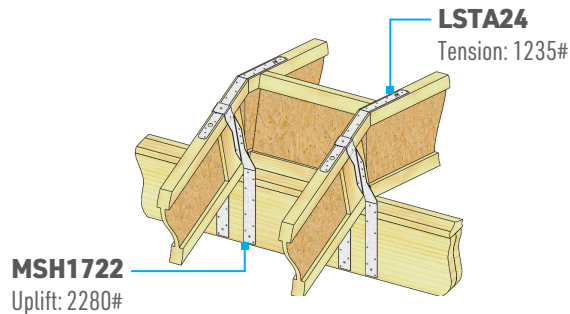


SINGLE-STORY WOOD FRAME (TO TRUSS)

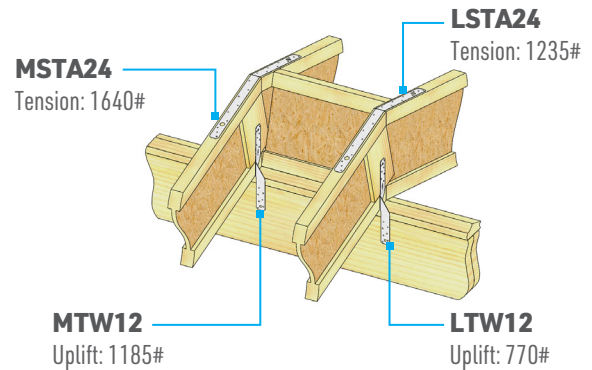


RAFTER TO PLATE OR RIDGE CONNECTIONS

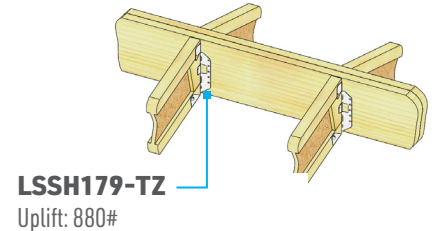
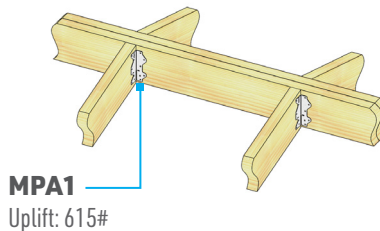
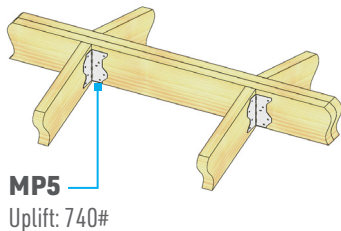
RIDGE RAFTER TIEDOWN



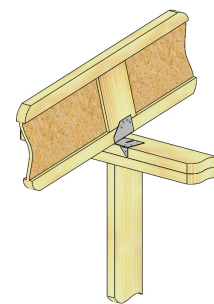
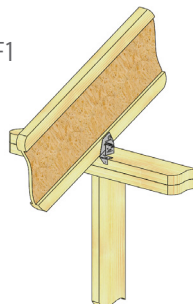
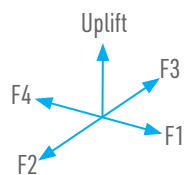
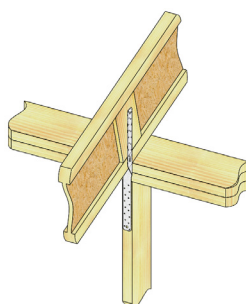
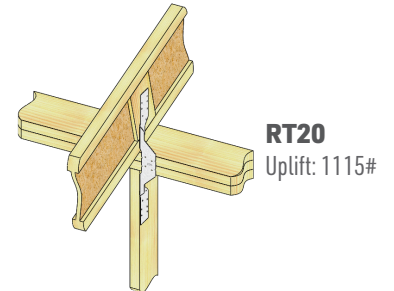
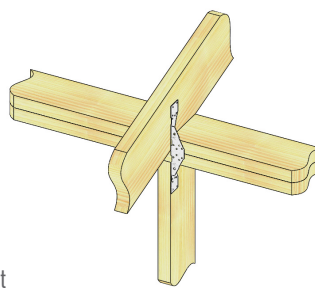
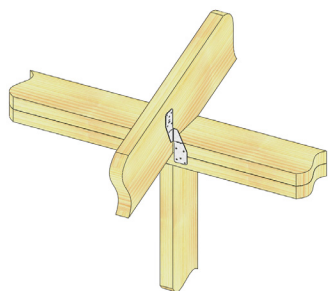
As shown for 1-3/4" wide joist. A different MSH hanger may be required depending on rafter width.



RAFTER TO RIDGE BEAM



RAFTER-TO-WALL



Reference MiTek's current Product Catalog for alternate fastener schedules, allowable loads, or installation options. Contact MiTek Customer Service for further assistance.