

CONNECTION GUIDE



LOAD TABLES ARE BASED ON END TO END, HORIZONTAL CONNECTIONS OF TRUSS AND EXTRUSION ONLY.

SPECIFIC ENGINEERING CALCULATIONS NEED TO BE COMPLETED FOR EACH INDIVIDUAL STRUCTURE/PROJECT THE MODTRUSS PRODUCT LINE IS A PART OF TO DEMONSTRATE LOAD CAPACITIES ARE NOT BEING EXCEEDED.

THE FOLLOWING INSTRUCTIONS ARE THE GUIDELINES FOR GENERAL CONNECTIONS TO ACHIVE EASE OF CONSTRUCTION FOR THE SUPPORTING MODTRUSS PRODUCTS.

ALL LOAD RATINGS AND LOAD TABLES OF THE TRUSS AND EXTRUSION WILL BE BASED ON THE FOLLOWING ASSUMPTIONS:

- LOADS ARE APPLIED VERTICALLY TO THE BOTTOM OF THE BEAM. (TRUSS OR EXTRUSION)
- THE BEAM MUST BE CONSTRUCTED WITH THE LONGEST PIECES POSSIBLE UTILIZING 10' MAX LENGHT, CREATING THE FEWEST JOINTS POSSIBLE (TRUSS OR EXTRUSION)
- ALL CONNECTIONS WILL USE A MINIUM (4) BOLT ASSEMBLIES, UTILIZING THE OUTERMOST HOLE PATTERN AVAILABLE. (TRUSS)
- END TO END CONNECTIONS OF MODTRUSS ARE REINFORCED USING (4) WASHER PLATES OF THE APPROPRIATE SIZE AT ALL JOINTS. (TRUSS)







THE CUT OUT IN BOTH 6" AND 12" MODTRUSS IS CALLED THE CLOVER.

THE PURPOSE OF THE CLOVER IS FOR WEIGHT REDUCTION AS WELL AS ACCESSIBILITY INSIDE THE TRUSS FOR INSTALLATION.

EVERY 6" OF THE 6" TRUSS SERIES UTILIZES 4 HOLES AND ONE CLOVER EVERY 6"

ModTruss TR Series

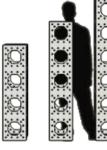
ALL 3 SERIES of ModTruss TRUSS COME IN ONE FOOT INCREMENTS UP TO 10'

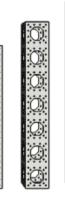


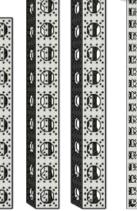


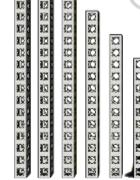








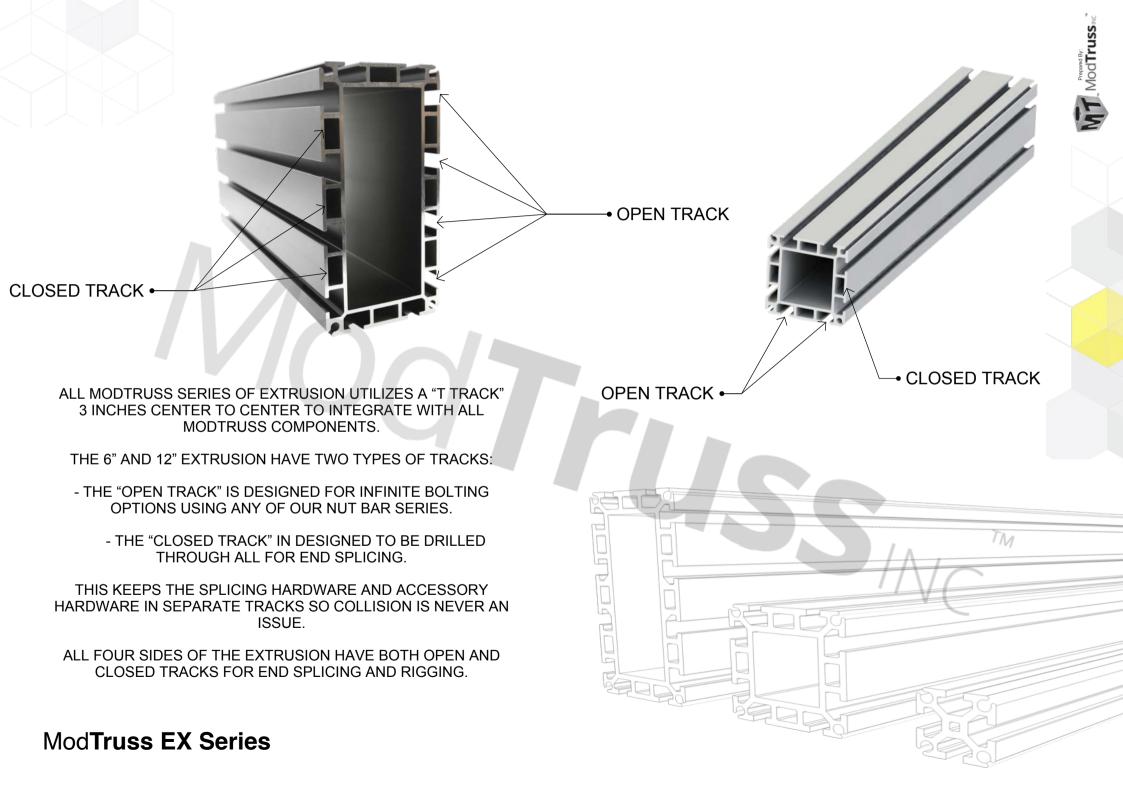


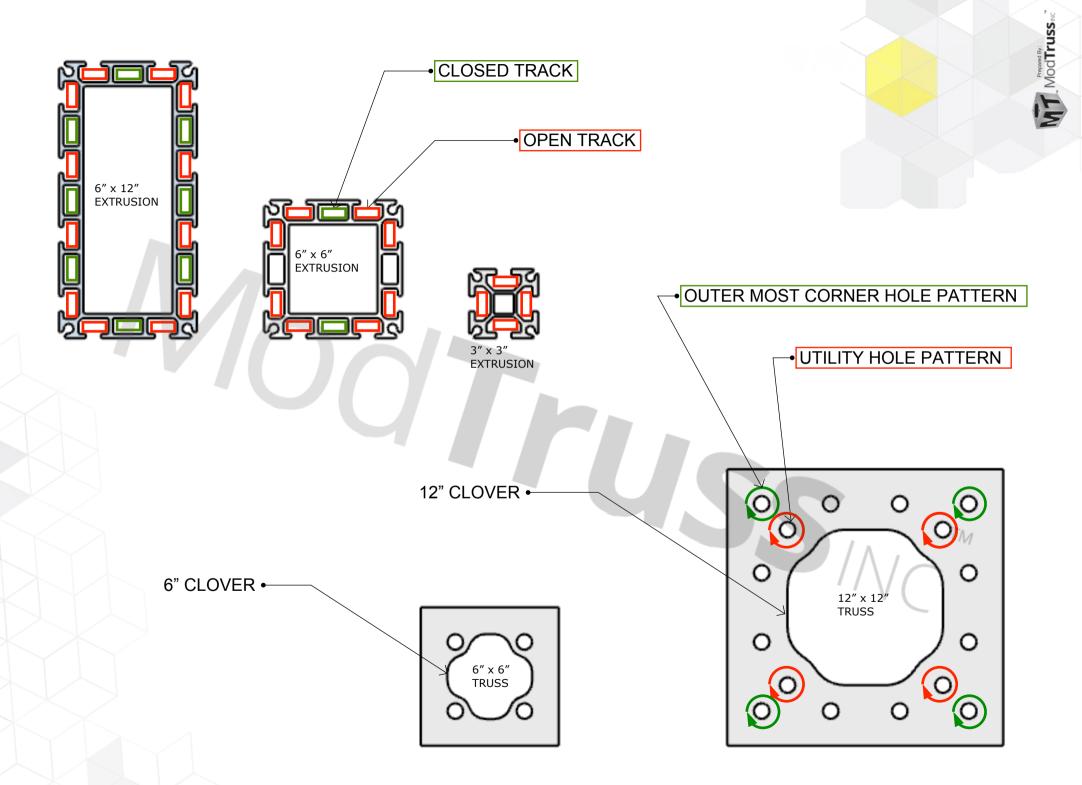




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NUT BARS ARE STEEL THREADED BARS DESIGNED TO GO IN THE OPEN TRACK OF THE EXTRUSION FOR MOUNTING AND RIGGING.





ONE GRADE 8 HEX BOLT ONE GRADE 8 HEX NUT TWO SAE WASHERS



3" TRUSS - END TO END

RECOMMENDED TORQUE VALUE:

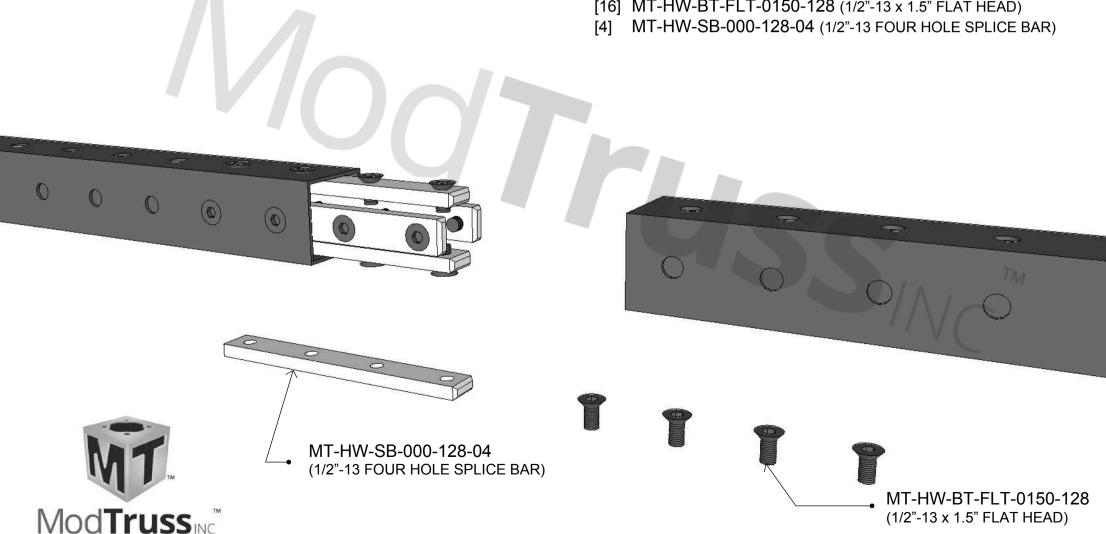
TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN MAKING A 3" TRUSS CONNECTION END TO END, INSERT FOUR, FOUR-HOLE 1/2"-13 NUT BARS INTO THE TRUSS WITH TWO HOLES OF ENGAGEMENT PER END FOR EACH NUT BAR. CONNECT WITH 1/2"-13 X 1" FLAT HEAD SCREWS.

HARDWARE PER CONNECTION

[16] MT-HW-BT-FLT-0150-128 (1/2"-13 x 1.5" FLAT HEAD)



3" TRUSS - GUSSET PLATE CORNER

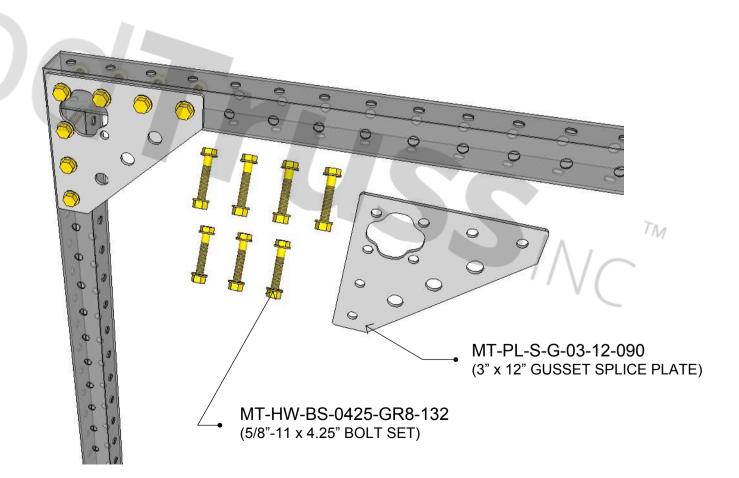
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN MAKING A 3" TRUSS CONNECTION WITH SPLICE PLATE, THROUGH BOLT THE PLATE AND 3" TRUSS WITH 4.25" BOLT SETS. 4.5" BOLT SETS CAN ALSO BE USED BUT WILL LEAVE MORE BOLT TAIL EXTENDING OUTWARD.

- [7] MT-HW-BS-0425-GR8-132 (5/8"-11 x 4.25" BOLT SET)
- [1] MT-PL-S-G-03-12-090 (3" x 12" GUSSET SPLICE PLATE)





3" TRUSS - GUSSET PLATE TEE

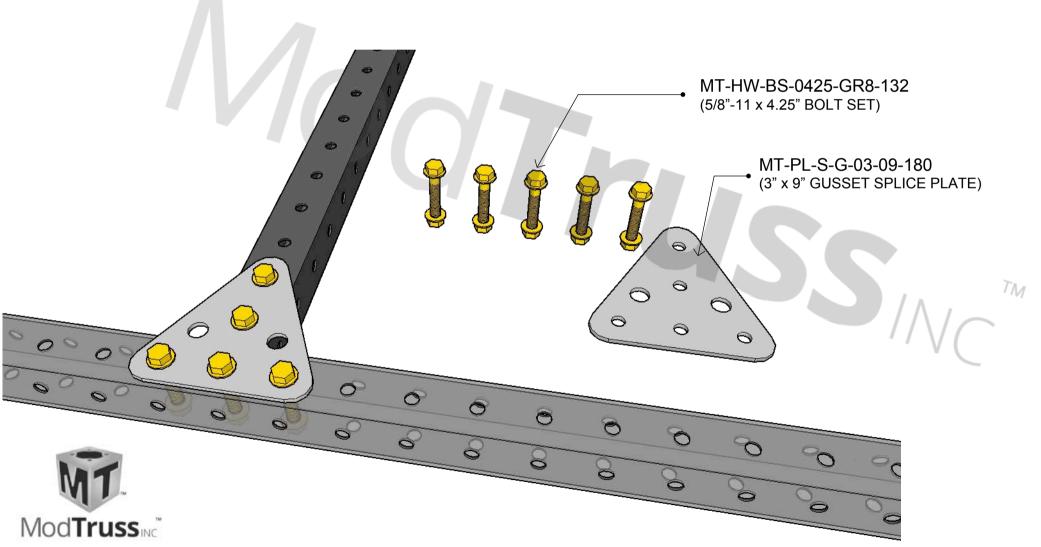
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN MAKING A 3" TRUSS CONNECTION WITH SPLICE PLATE, THROUGH BOLT THE PLATE AND 3" TRUSS WITH 4.25" BOLT SETS. 4.5" BOLT SETS CAN ALSO BE USED BUT WILL LEAVE MORE BOLT TAIL EXTENDING OUTWARD.

- [5] MT-HW-BS-0425-GR8-132 (5/8"-11 x 4.25" BOLT SET)
- [1] MT-PL-S-G-03-09-180 (3" x 9" GUSSET SPLICE PLATE)



3" TRUSS - SPLICE PLATE PLATE TEE

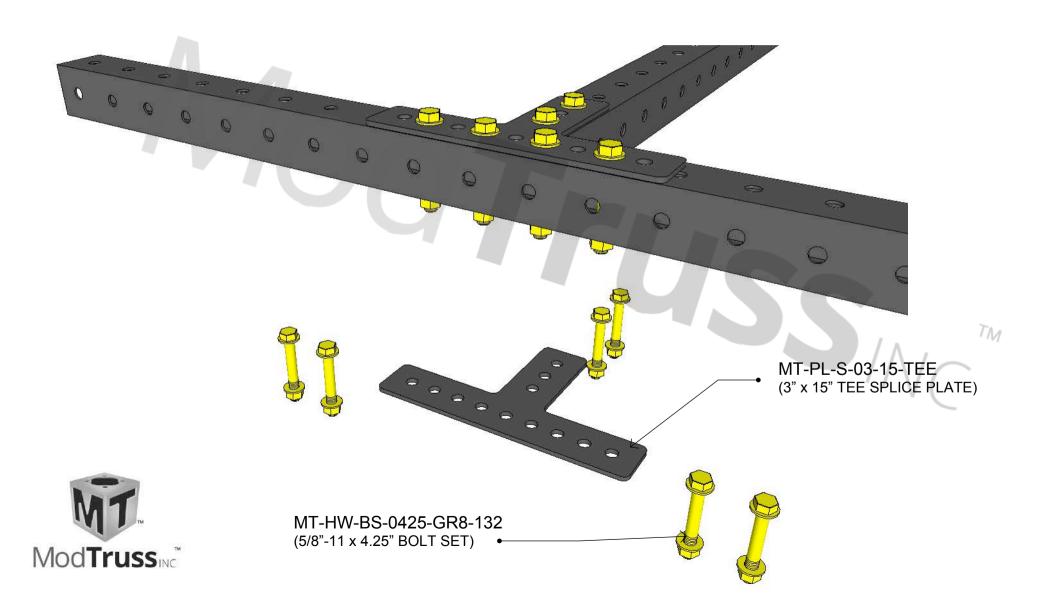
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN MAKING A 3" TRUSS CONNECTION WITH SPLICE PLATE, THROUGH BOLT THE PLATE AND 3" TRUSS WITH 4.25" BOLT SETS. 4.5" BOLT SETS CAN ALSO BE USED BUT WILL LEAVE MORE BOLT TAIL EXTENDING OUTWARD.

- [6] MT-HW-BS-0425-GR8-132 (5/8"-11 x 4.25" BOLT SET)
- [1] MT-PL-S-G-03-15-TEE (3" x 15" TEE SPLICE PLATE)





6" TRUSS - END TO END CONNECTION

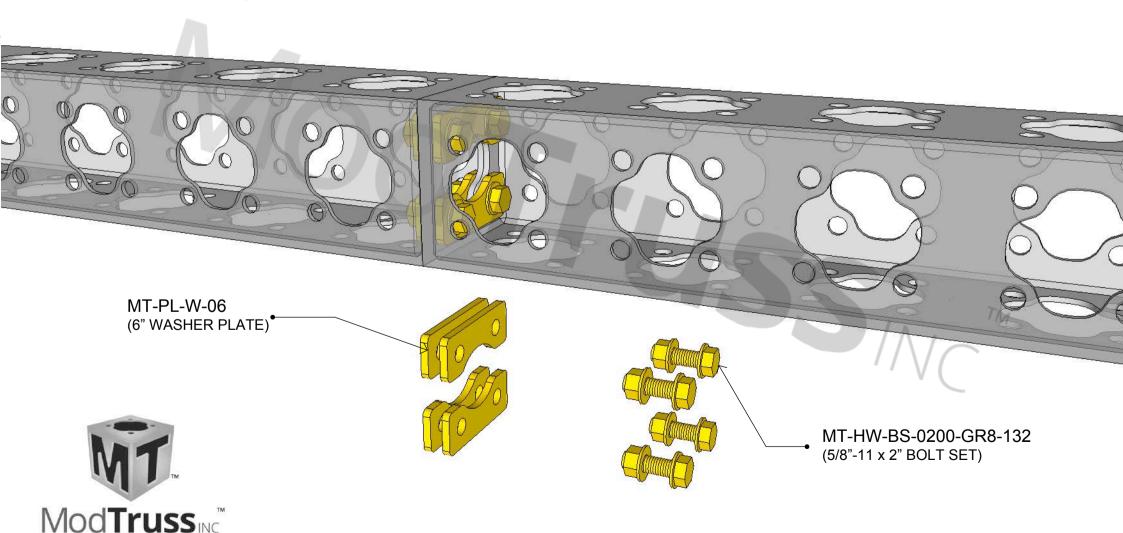
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs
PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN MAKING A 6" TRUSS END TO END CONNECTION, PLACE TWO WASHER PLATES INSIDE EACH MEMBER (FOUR WASHER PLATES TOTAL PER CONNECTION) IN THE HORIZONTAL ORIENTATION WITH FOUR, 5/8"-11 x 2" BOLT SETS.

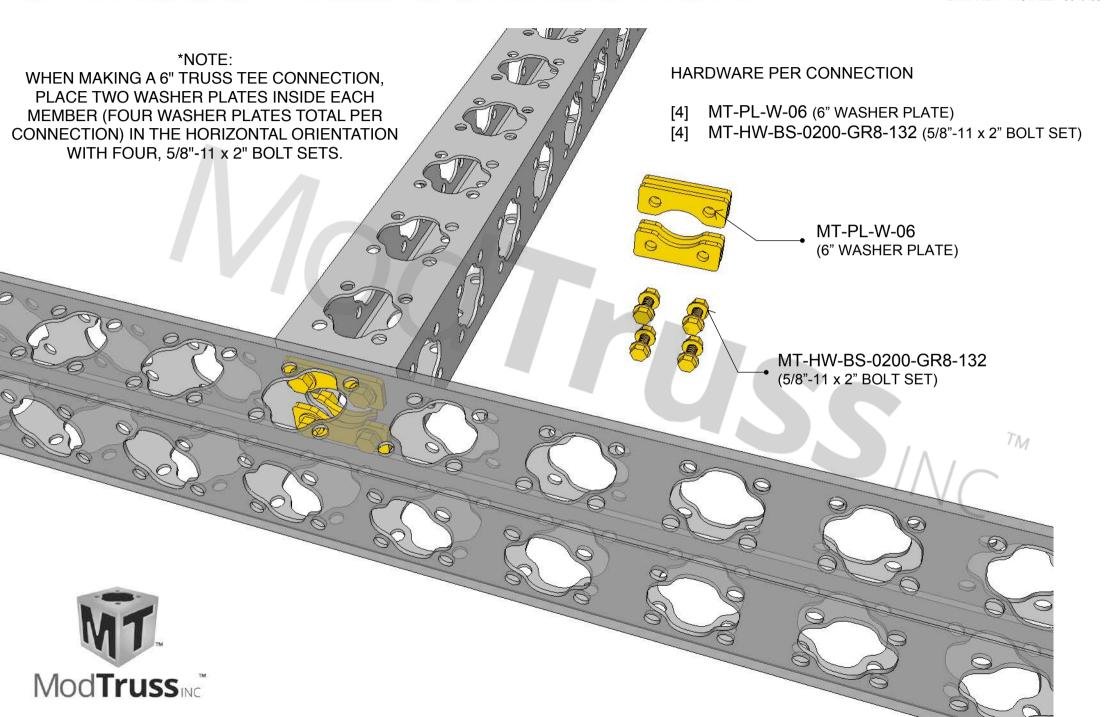
- [4] MT-PL-W-06 (6" WASHER PLATE)
- [4] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)



6" TRUSS - TEE CONNECTION

RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs



6" TRUSS - 6"x12" SPLICE PLATE

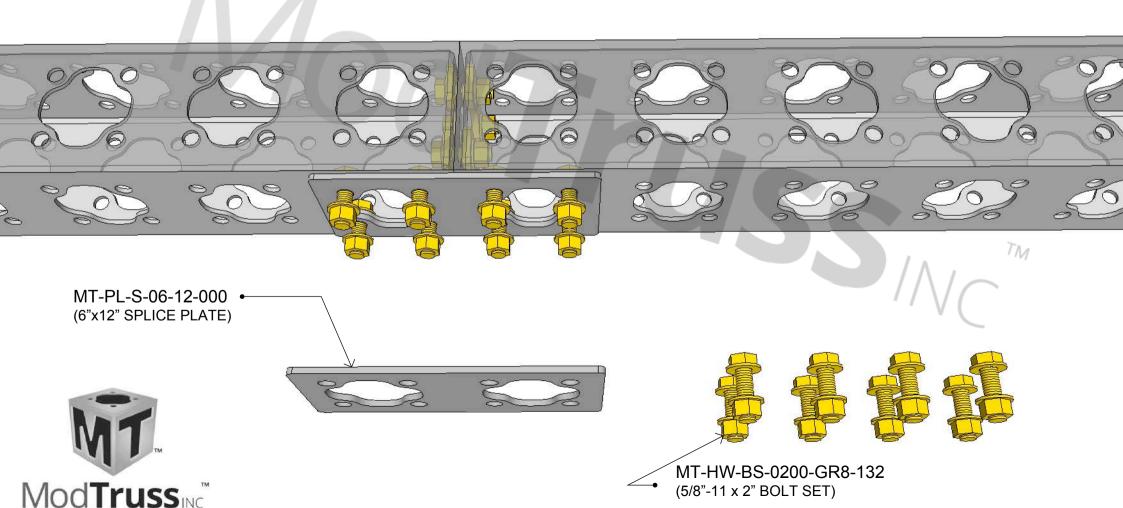
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs
PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN INSTALLING A 6"x12" SPLICE PLATE, USE EIGHT BOLT SETS AS SHOWN. WASHER PLATES ARE NOT NEEDED AT THE SPLICE PLATE BUT ARE STILL REQUIRED AT THE STANDARD END TO END CONNECTION. BE SURE TO HAVE THE ORIENTATION OF THE BOLTS AS SHOWN WITH THE BOLT TAILS GOING DOWN TO AVOID COLLISION WITH THE BOLT SETS AND WASHER PLATES USED IN THE STANDARD CONNECTION.

- [1] MT-PL-S-06-12-000 (6"x12" SPLICE PLATE)
- [8] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)



6" TRUSS - GUSSET PLATE CORNER

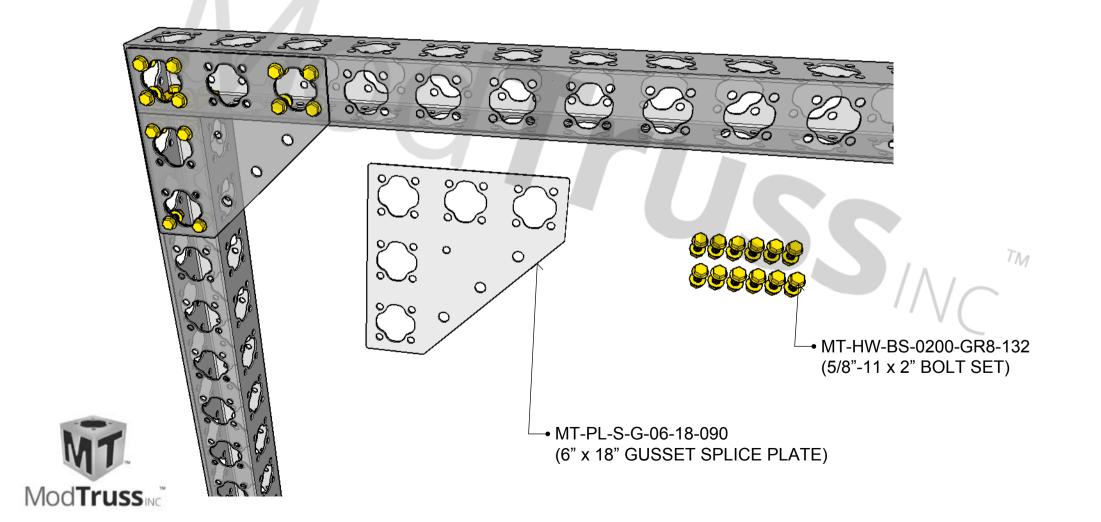
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN MAKING A 6" TRUSS CONNECTION WITH SPLICE PLATE, USE TWELVE BOLT SETS AS SHOWN. WASHER PLATES ARE NOT NEEDED WITH THE SPLICE PLATE BUT ARE STILL REQUIRED AT THE STANDARD CONNECTION. WHEN BOLT TAILS MAY INTERFERE WITH HARDWARE USED IN THE STANDARD CONNECTION HAVE THE BOLT TAILS OUTSIDE OF THE TRUSS TO AVOID COLLISION.

- [1] MT-PL-S-G-06-18-090 (6" x 18" GUSSET SPLICE PLATE)
- [12] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)



6" TRUSS - EXTRUSION T SLOT PIPE

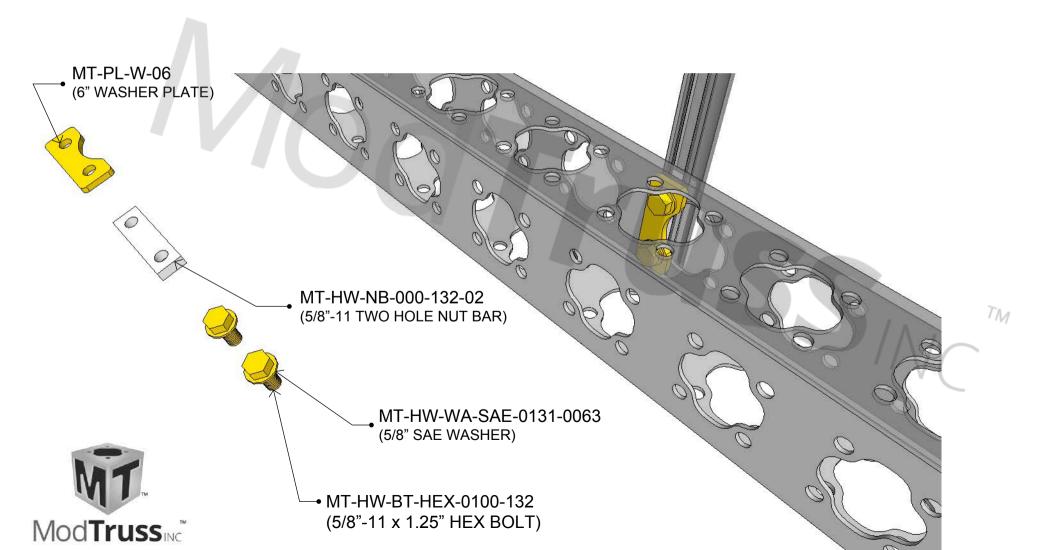
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN CONNECTING THE EXTRUSION PIPE TO TRUSS, SLIDE A TWO HOLE 5/8"-11 NUT BAR INTO THE "T SLOT" OF THE PIPE. WITH THE HEADS OF THE BOLTS TOWARDS THE INSIDE OF THE TRUSS, INSERT TWO 5/8"-11 X 1.25" BOLTS WITH WASHERS INSIDE THE 6" TRUSS THROUGH THE 6" WASHER PLATE AND THREAD INTO THE 5/8"-11 NUT BAR.

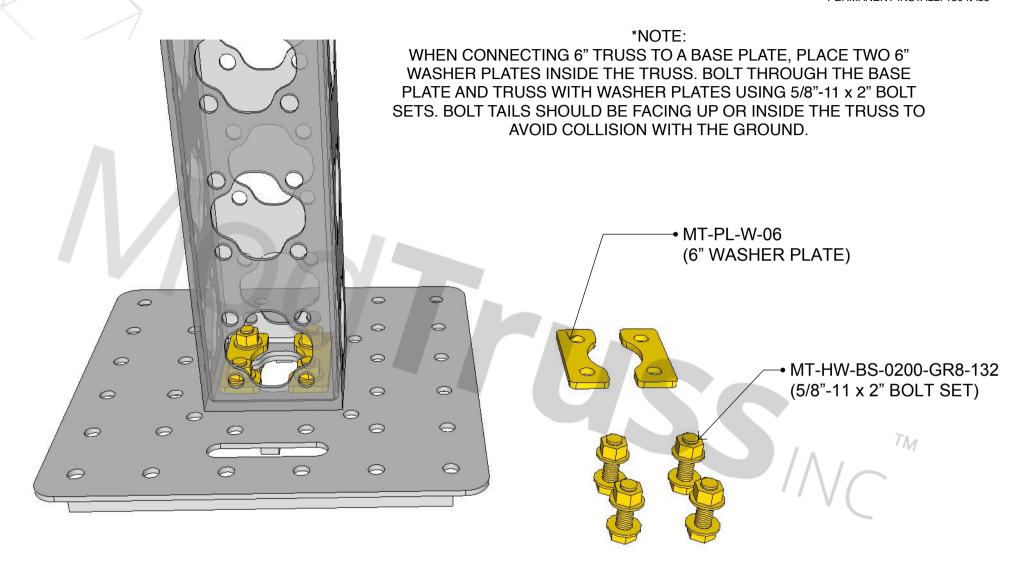
- 1] MT-PL-W-06 (6" WASHER PLATE)
- [1] MT-HW-NB-000-132-02 (5/8"-11 TWO HOLE NUT BAR)
- [2] MT-HW-WA-SAE-0131-0063 (5/8" SAE WASHER)
- [2] MT-HW-BT-HEX-0100-132 (5/8"-11 x 1.25" HEX BOLT)



6" TRUSS - BASE PLATE

RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs





- [4] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)
- [2] MT-PL-W-06 (6" WASHER PLATE)



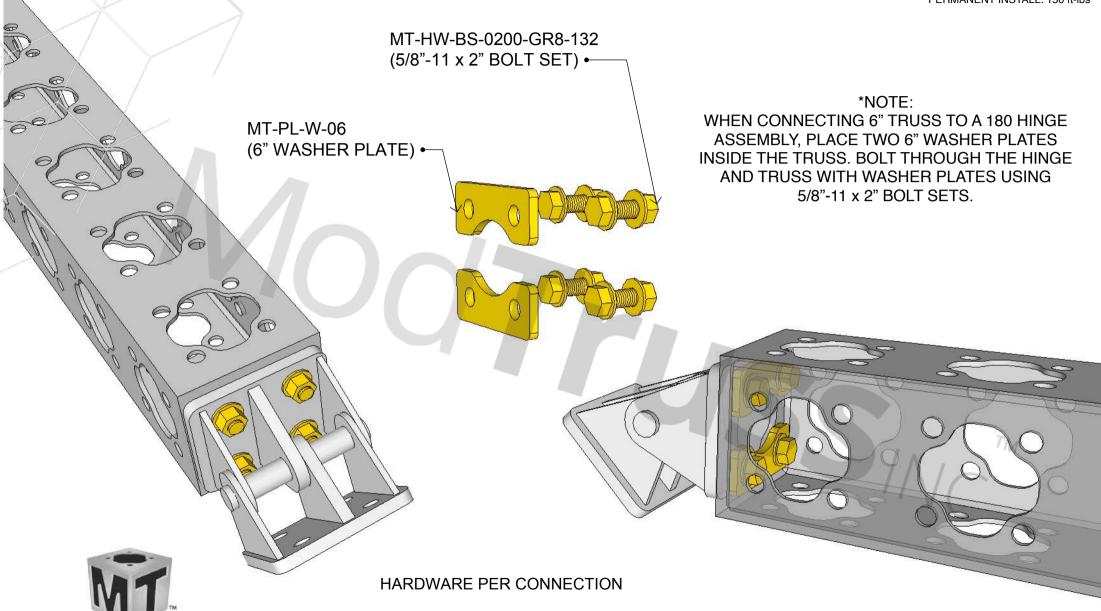
6" TRUSS - 180 HINGE ASSEMBLY

[2]

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RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs
PERMANENT INSTALL: 150 ft-lbs



MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)

MT-PL-W-06 (6" WASHER PLATE)

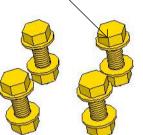
6" TRUSS - 6" TEE RIGGING MOUNT

RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs
PERMANENT INSTALL: 150 ft-lbs

*NOTE:

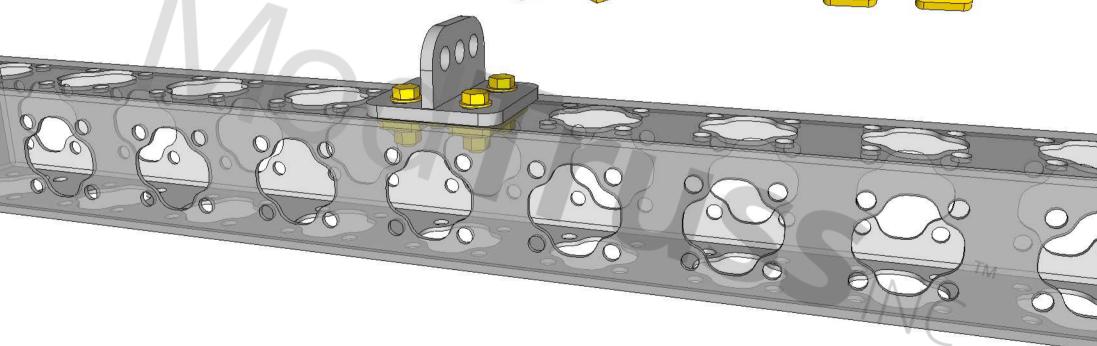
WHEN CONNECTING 6" TRUSS TO A 6" TEE RIGGING MOUNT, PLACE TWO 6" WASHER PLATES INSIDE THE TRUSS. BOLT THROUGH THE TEE RIGGING MOUNT AND TRUSS WITH WASHER PLATES USING 5/8"-11 x 2" BOLT SETS. • MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)



MT-PL-W-06 (6" WASHER PLATE) •









- [1] MT-MR-RM-06-06-TEE-H (6" TEE RIGGING MOUNT)
- [4] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)
- [2] MT-PL-W-06 (6" WASHER PLATE)



12" TRUSS - END TO END

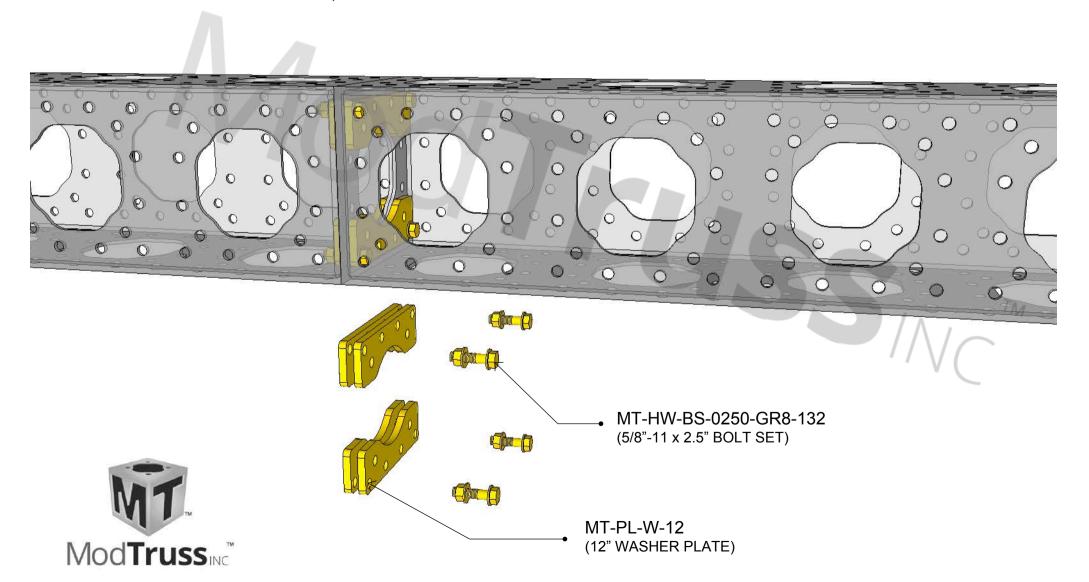
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN MAKING A 12" TRUSS END TO END CONNECTION, PLACE TWO 12" WASHER PLATES INSIDE EACH MEMBER (FOUR WASHER PLATES TOTAL PER CONNECTION) IN THE HORIZONTAL ORIENTATION WITH FOUR, 5/8"-11 x 2.5" BOLT SETS.

- [4] MT-PL-W-12 (12" WASHER PLATE)
- [4] MT-HW-BS-0250-GR8-132 (5/8"-11 x 2.5" BOLT SET)



12" TRUSS - TEE CONNECTION

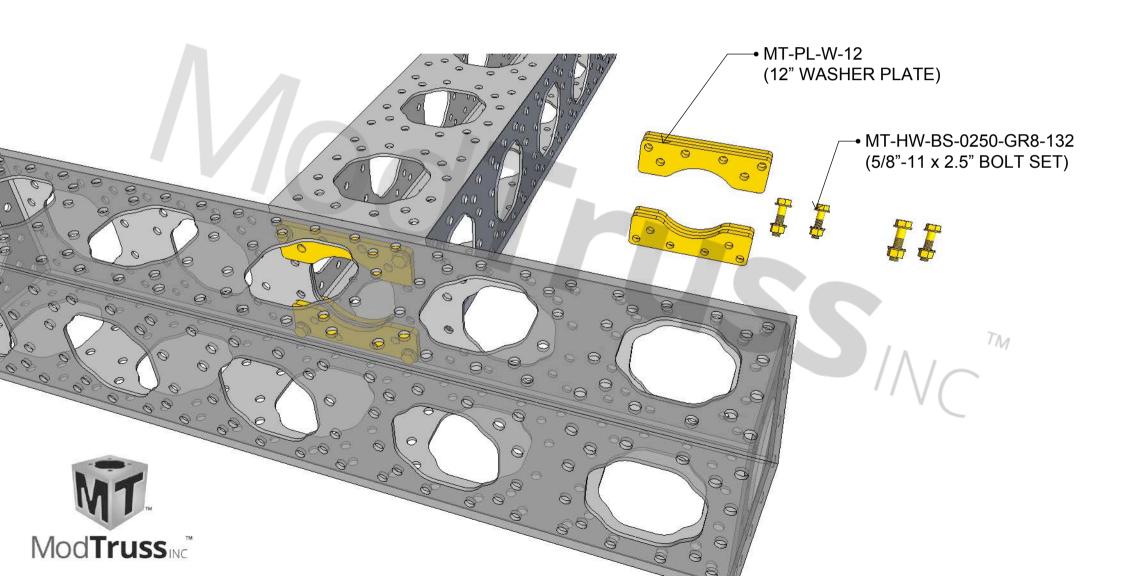
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN MAKING A 12" TRUSS TEE CONNECTION, PLACE TWO 12" WASHER PLATES INSIDE EACH MEMBER (FOUR WASHER PLATES TOTAL PER CONNECTION) IN THE HORIZONTAL ORIENTATION WITH FOUR. 5/8"-11 x 2.5" BOLT SETS.

- [4] MT-PL-W-12 (12" WASHER PLATE)
- [4] MT-HW-BS-0250-GR8-132 (5/8"-11 x 2.5" BOLT SET)



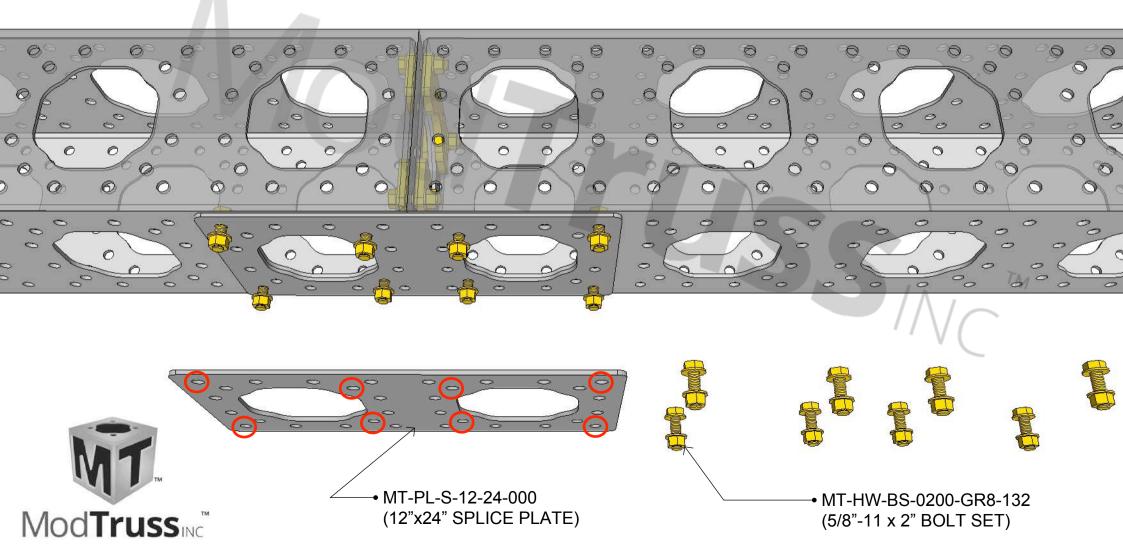
12" TRUSS - 12"x24" SPLICE PLATE

RECOMMENDED TORQUE VALUE: TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN INSTALLING A 12"x24" SPLICE PLATE, USE EIGHT BOLT SETS AS SHOWN. WASHER PLATES ARE NOT NEEDED AT THE SPLICE PLATE BUT ARE STILL REQUIRED AT THE STANDARD END TO END CONNECTION. BE SURE TO USE THE HOLES SHOWN SO THERE IS NOT BOLT COLLISION WITH THE HARDWARE IN THE STANDARD END TO END CONNECTION.

- [1] MT-PL-S-12-24-000 (12"x24" SPLICE PLATE)
- [8] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)



12" TRUSS - 12" FLAT HINGE

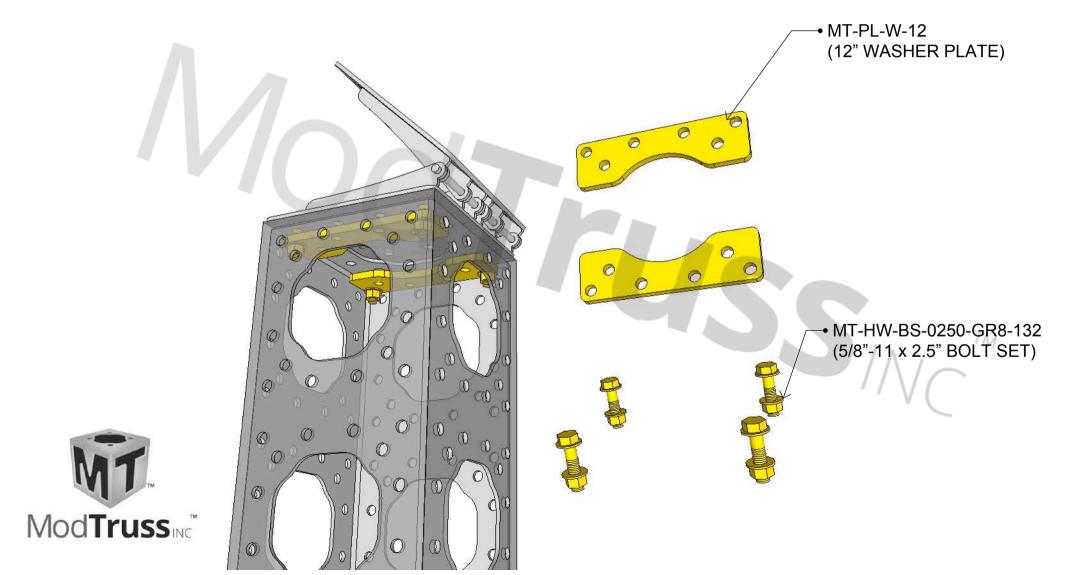
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN CONNECTING A 12" FLAT HINGE TO 12" TRUSS, PLACE TWO 12" WASHER PLATES INSIDE TRUSS MEMBER AS SHONW. BOLT THROUGH THE HINGE AND TRUSS WITH WASHER PLATES USING FOUR 5/8"-11 x 2.5" BOLT SETS IN THE OUTER MOST CORNER.

- [2] MT-PL-W-12 (12" WASHER PLATE)
- [4] MT-HW-BS-0250-GR8-132 (5/8"-11 x 2.5" BOLT SET)



12" TRUSS - 12" 180 HINGE

RECOMMENDED TORQUE VALUE:

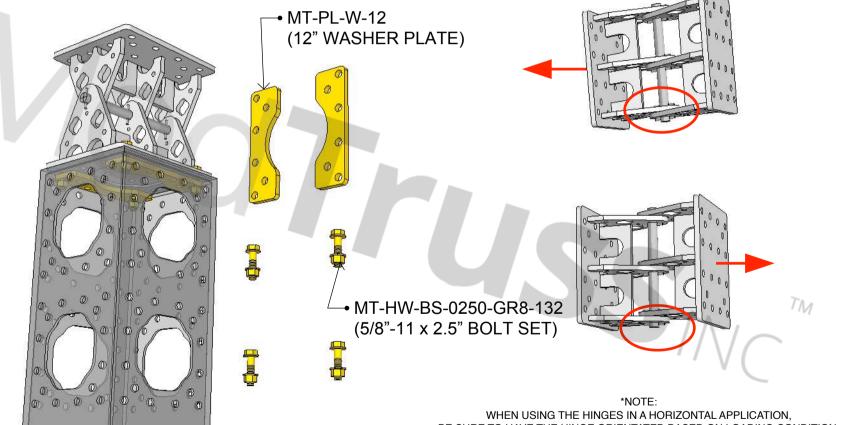
TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN CONNECTING A 12" 180 HINGE TO 12" TRUSS. PLACE TWO 12" WASHER PLATES INSIDE TRUSS MEMBER AS SHONW. BOLT THROUGH THE HINGE AND TRUSS WITH WASHER PLATES USING FOUR 5/8"-11 x 2.5" BOLT SETS IN THE OUTER MOST CORNER.

HARDWARE PER CONNECTION

- MT-PL-W-12 (12" WASHER PLATE)
- MT-HW-BS-0250-GR8-132 (5/8"-11 x 2.5" BOLT SET)





BE SURE TO HAVE THE HINGE ORIENTATED BASED ON LOADING CONDITION.

IT IS IMPORTANT TO HAVE THE BOTTOM "EAR" OF THE SUPPORTED HINGE PLACED ON THE BOTTOM TO HOLD UP THE UNSUPPORTED HINGE. THE ARROWS ABOVE INDICATE WHERE THE UNSUPPORTED LOAD IS. IN THE VIEWS ABOVE. NOTICE THE EAR OF THE SUPPORTED WIGHT IS ON BOTTOM TO SUPPORT THE EAR OF THE UNSUPPORTED HALF.

12" TRUSS - 6" x 12" ZERO DEGREE PIPE ADAPTER

RECOMMENDED TORQUE VALUE:

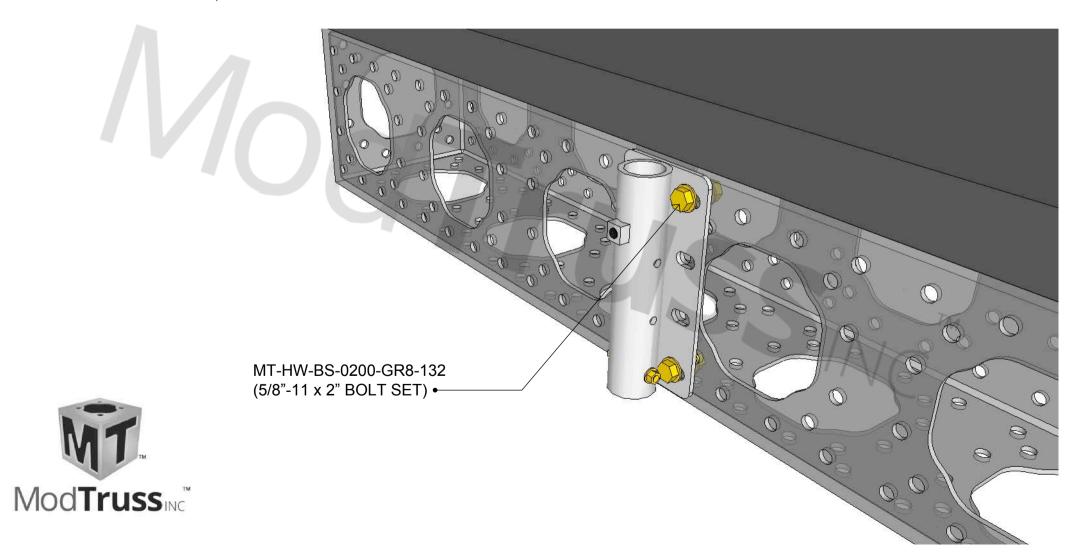
TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN BOLTING A ZERO DEGREE PIPE ADAPTER TO TRUSS USE FOUR 5/8"-11 x 2" BOLT SETS IN THE OUTER MOST CORNERS POSSIBLE.

FOR GUARDRAIL MOUNTING, WASHER PLATES ARE NOT NEEDED.

- [1] MT-PL-W-12 (6" x 12" ZERO DEGREE PIPE ADAPTER)
- [4] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2.0" BOLT SET)



12" TRUSS - EXTRUSION T SLOT PIPE

RECOMMENDED TORQUE VALUE:

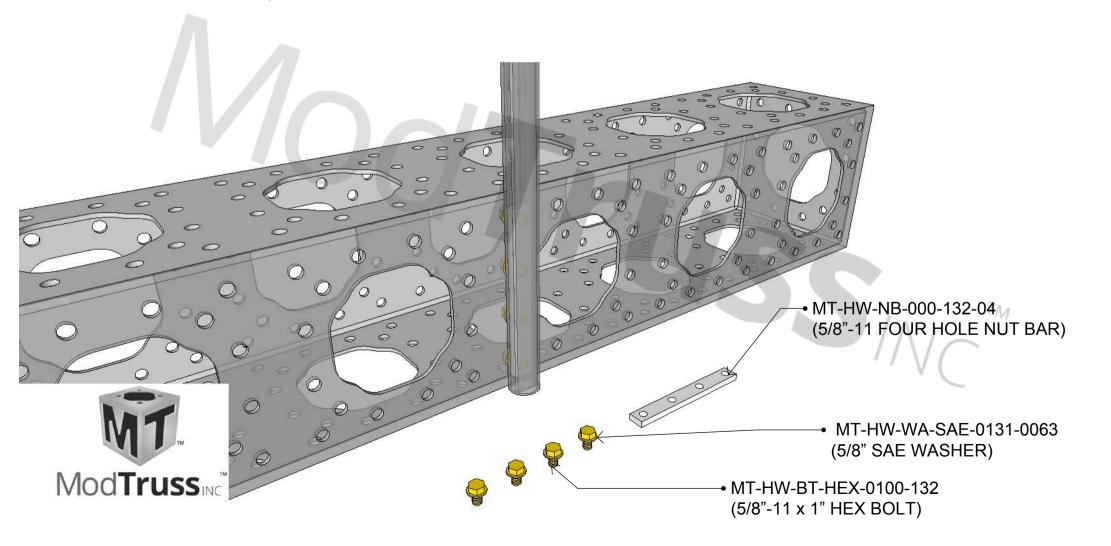
TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN CONNECTING THE EXTRUSION PIPE TO 12" TRUSS, SLIDE A FOUR HOLE 5/8"-11 NUT BAR INTO THE "T SLOT" OF THE PIPE. BOLT THROUGH THE TRUSS INTO THE FOUR HOLE NUT BAR WITH FOUR 5/8"-11 X 1" BOLTS WITH WASHERS.

FOR GUARDRAIL MOUNTING, WASHER PLATES ARE NOT NEEDED.

- 1] MT-HW-NB-000-132-04 (5/8"-11 FOUR HOLE NUT BAR)
- [4] MT-HW-WA-SAE-0131-0063 (5/8" SAE WASHER)
- [4] MT-HW-BT-HEX-0100-132 (5/8"-11 x 1" HEX BOLT)



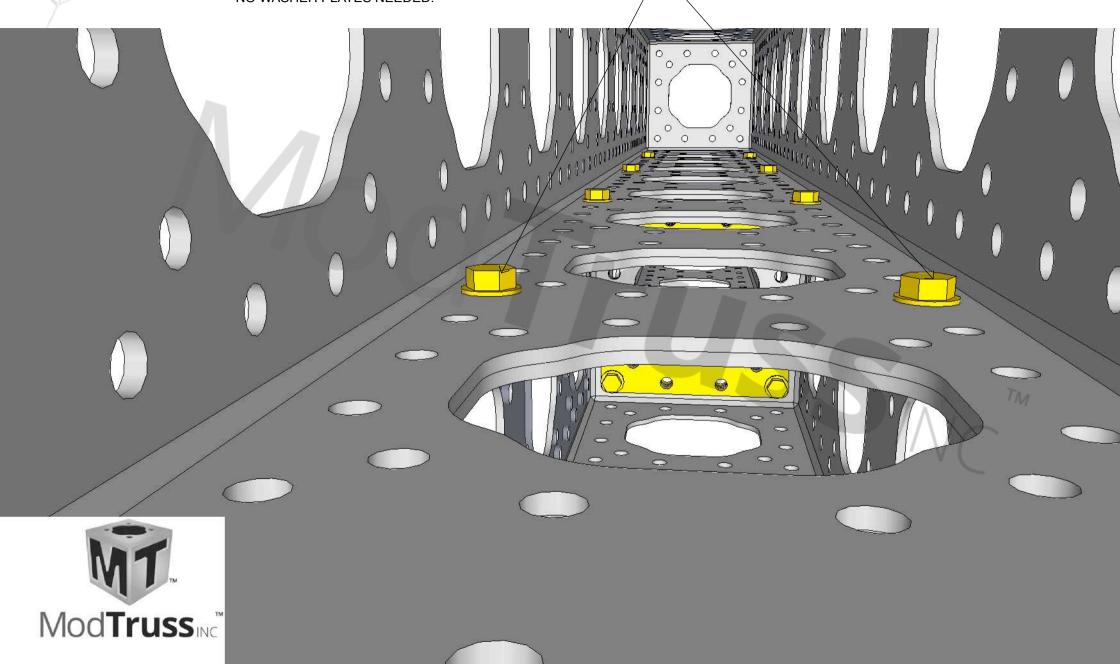
12" TRUSS - LAMINATION

RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE: WHEN MAKING A 12" TRUSS LAMINATION, PLACE YOUR BOLTS IN GROUPS OF TWO, EVERY TWO FEET CENTER TO CENTER DOWN THE LAMINATION SPAN.

NO WASHER PLATES NEEDED.



12" TRUSS - HEAD BLOCK

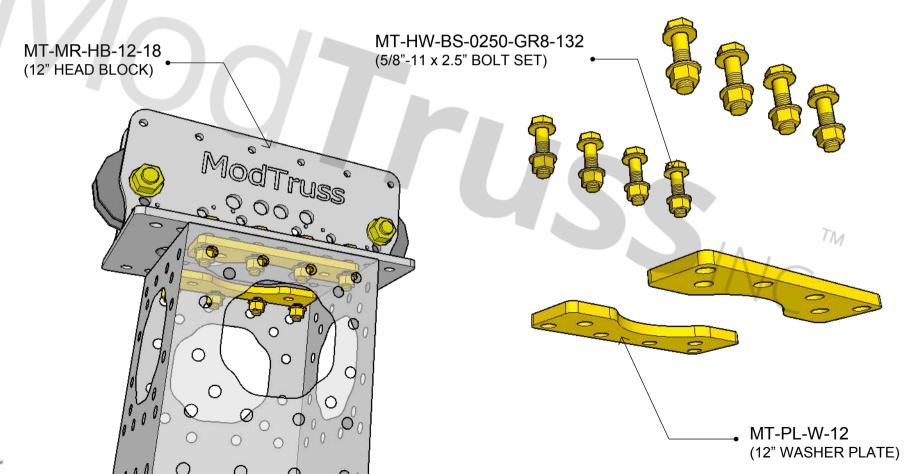
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN CONNECTING A 12" HEAD BLOCK TO 12" TRUSS, PLACE TWO 12" WASHER PLATES INSIDE TRUSS MEMBER AS SHOWN. BOLT THROUGH THE HEAD BLOCK AND TRUSS WITH WASHER PLATES USING EIGHT 5/8"-11 x 2.5" BOLT SETS.

- [1] MT-MR-HB-12-18 (12" HEAD BLOCK)
- [8] MT-HW-BS-0250-GR8-132 (5/8"-11 x 2.5" BOLT SET)
- [2] MT-PL-W-12 (12" WASHER PLATE)





12" TRUSS - BASE PLATE

RECOMMENDED TORQUE VALUE:

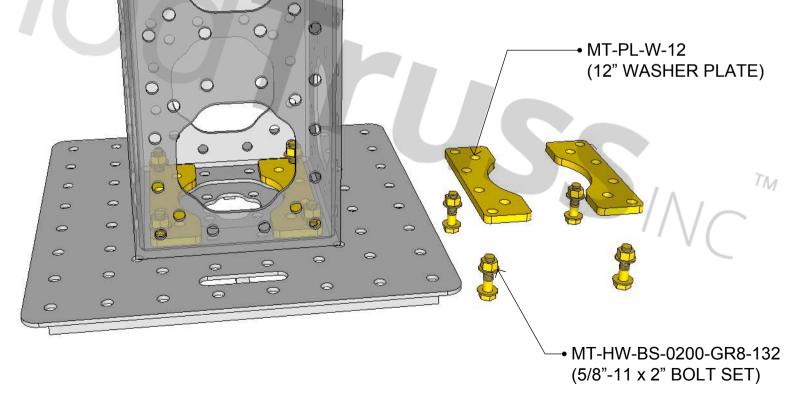
TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN CONNECTING 12" TRUSS TO A
BASE PLATE, PLACE TWO 12"
WASHER PLATES INSIDE THE TRUSS.
BOLT THROUGH THE BASE PLATE
AND TRUSS WITH WASHER PLATES
USING 5/8"-11 x 2" BOLT SETS. BOLT
TAILS SHOULD BE FACING UP OR
INSIDE THE TRUSS TO AVOID
COLLISION WITH THE GROUND.



- [4] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)
- [2] MT-PL-W-12 (12" WASHER PLATE)



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12" TRUSS - 3" x 6" ZERO DEGREE PIPE ADAPTER

RECOMMENDED TORQUE VALUE:

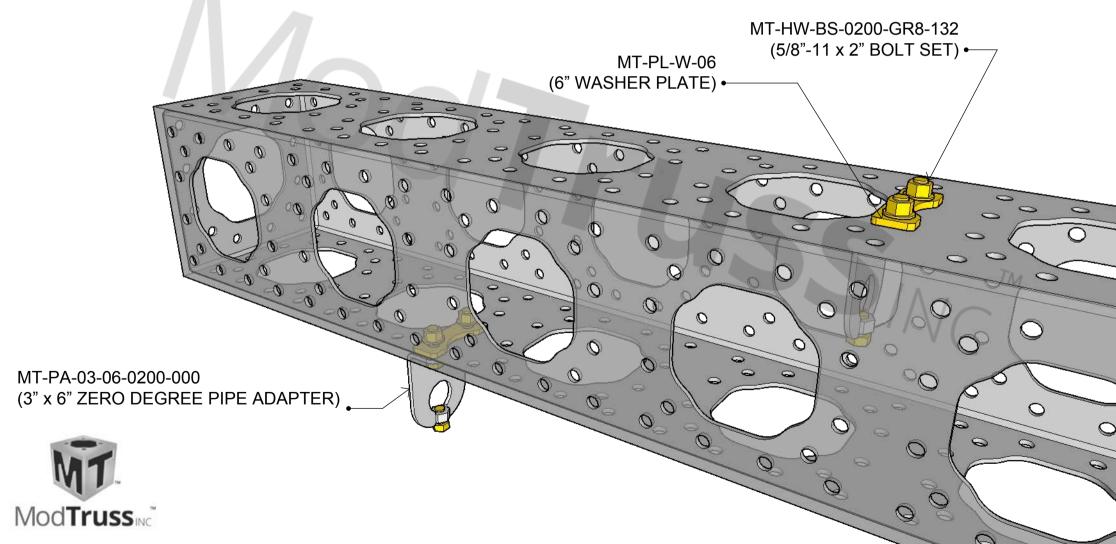
TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN CONNECTING A 3" x 6" PIPE ADAPTER TO TRUSS, PLACE ONE 6" WASHER PLATES INSIDE THE TRUSS. BOLT THROUGH THE PIPE ADAPTER AND TRUSS WITH WASHER PLATE USING TWO 5/8"-11 x 2" BOLT SETS.

PIPE ADAPTER CAN ALSO BE BOLTED INSIDE TRUSS TO RUN PIPE INSIDE THE CLOVERS. WHEN DOING SO THE WASHER PLATE SHOULD BE OUTSIDE OF THE TRUSS AS SHOWN.

- [1] MT-PA-03-06-0200-000 (3" x 6" ZERO DEGREE PIPE ADAPTER)
- [2] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)
- [1] MT-PL-W-06 (6" WASHER PLATE)



12" TRUSS - 12" TEE RIGGING MOUNT

RECOMMENDED TORQUE VALUE:

→ MT-MR-RM-06-012-TEE-H

(12" TEE RIGGING MOUNT)

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

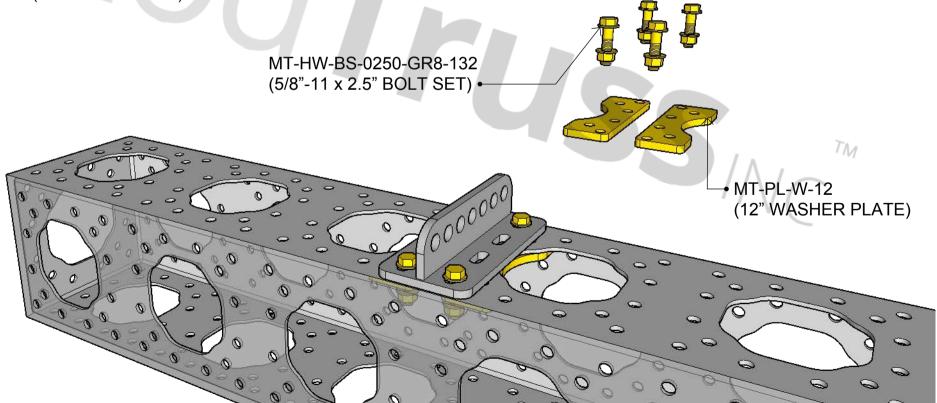
*NOTE:

WHEN CONNECTING A 12" TEE RIGGING MOUNT TO 12" TRUSS TO, PLACE TWO 12" WASHER PLATES INSIDE THE TRUSS. BOLT THROUGH THE TEE RIGGING MOUNT AND TRUSS WITH WASHER PLATES USING 5/8"-11 x 2.5" BOLT SETS.

HARDWARE PER CONNECTION

ModTruss

- [1] MT-MR-RM-06-012-TEE-H (12" TEE RIGGING MOUNT)
- [4] MT-HW-BS-0250-GR8-132 (5/8"-11 x 2.5" BOLT SET)
- [2] MT-PL-W-12 (12" WASHER PLATE)





3" EXTRUSION - END TO END

RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

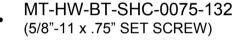
*NOTE:

WHEN MAKING A 3" EXTRUSION CONNECTION END TO END, INSERT FOUR, FOUR-HOLE 5/8"-11 NUT BARS INTO THE EXTRUSION TRACK WITH TWO SET SCREWS PER END FOR EACH NUT BAR. CONNECT WITH 5/8"-11 SET SCREWS.

HARDWARE PER CONNECTION

[16] MT-HW-BT-SHC-0075-132 (5/8"-11 x .75" SET SCREW)

4] MT-HW-NB-000-132-04 (5/8"-11 FOUR HOLE NUT BAR)



MT-HW-NB-000-132-04 (5/8"-11 FOUR HOLE NUT BAR)



3" EXTRUSION - GUSSET PLATE CORNER

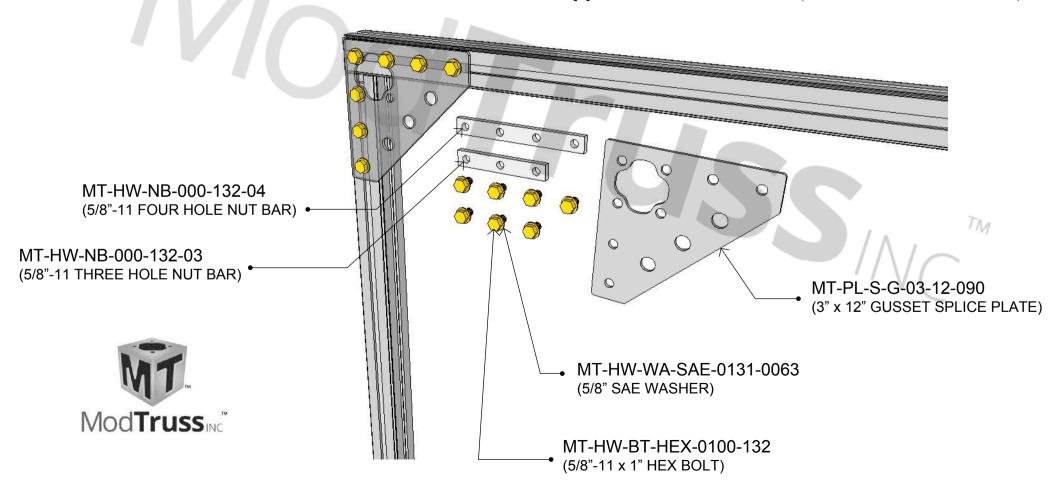
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN MAKING A 3" EXTRUSION CONNECTION WITH SPLICE PLATE, INSERT THE APPROPRIATE LENGTH NUT BAR INTO THE TRACK FOR THE SIZE SPLICE PLATE USED. CONNECT WITH 5/8"-11 x 1" GRADE 8 HEX BOLTS WITH ONE SAE WASHER.

- [1] MT-PL-S-G-03-12-090 (3" x 12" GUSSET SPLICE PLATE)
- [7] MT-HW-BT-HEX-0100-132 (5/8"-11 x 1" HEX BOLT)
- [7] MT-HW-WA-SAE-0131-0063 (5/8" SAE WASHER)
- [1] MT-HW-NB-000-132-04 (5/8"-11 FOUR HOLE NUT BAR)
- [1] MT-HW-NB-000-132-03 (5/8"-11 THREE HOLE NUT BAR)



3" EXTRUSION - GUSSET PLATE TEE

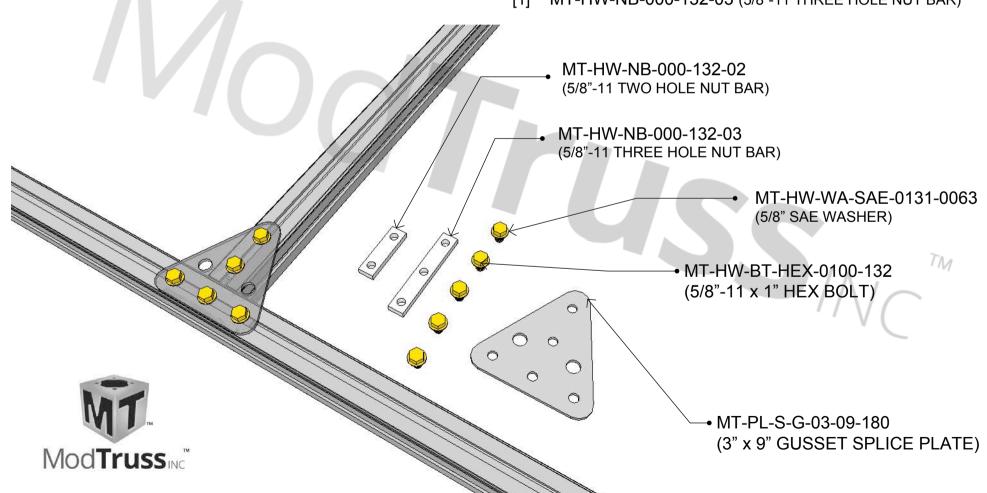
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN MAKING A 3" EXTRUSION CONNECTION WITH SPLICE PLATE, INSERT THE APPROPRIATE LENGTH NUT BAR INTO THE TRACK FOR THE SIZE SPLICE PLATE USED. CONNECT WITH 5/8"-11 x 1" GRADE 8 HEX BOLTS WITH ONE SAE WASHER.

- 1] MT-PL-S-G-03-09-180 (3" x 9" GUSSET SPLICE PLATE)
- [5] MT-HW-BT-HEX-0100-132 (5/8"-11 x 1" HEX BOLT)
- [5] MT-HW-WA-SAE-0131-0063 (5/8" SAE WASHER)
- [1] MT-HW-NB-000-132-02 (5/8"-11 TWO HOLE NUT BAR)
- [1] MT-HW-NB-000-132-03 (5/8"-11 THREE HOLE NUT BAR)





6" EXTRUSION - END TO END COUNTERSUNK

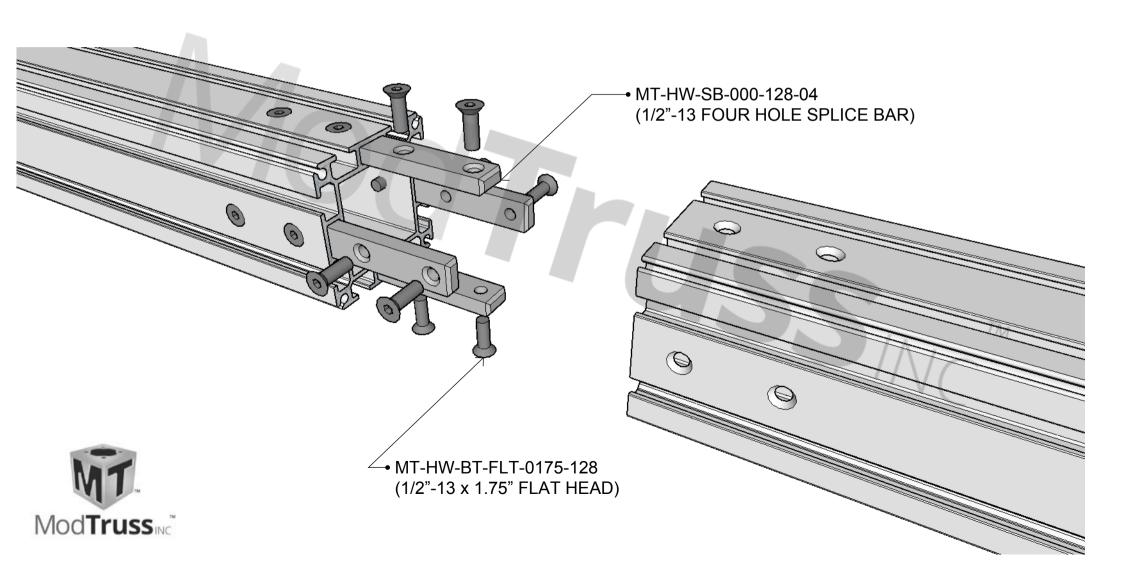
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 60 ft-lbs PERMANENT INSTALL: 90 ft-lbs

*NOTE:

WHEN MAKING AN END TO END CONNECTION WITH 6" x 6" EXTRUSION USE FOUR 1/2"-13, FOUR HOLE SPLICE BARS IN THE CLOSED EXTRUSION TRACKS. EXTRUSION MUST BE DRILLED AND OR DRILLED AND COUNTERSUNK FOR THE SPLICE BARS. THE TAPERED END OF THE SPLICE BAR ALLOWS FOR EASIER INSTALLATION WHEN INSTALLING THE SECOND EXTRUSION MEMBER. USE FOUR 1/2"-13 x 1.75" FLAT HEADS PER SPLICE BAR WITH THE SEAM OF THE TWO EXTRUSION MEMBERS SPLITTING THE SPLICE BAR TWO HOLES PER MEMBER.

- [4] MT-HW-SB-000-128-04 (1/2"-13 FOUR HOLE SPLICE BAR)
- [16] MT-HW-BT-FLT-0175-128 (1/2"-13 x 1.75" FLAT HEAD)



6" EXTRUSION - END TO END HEX BOLT

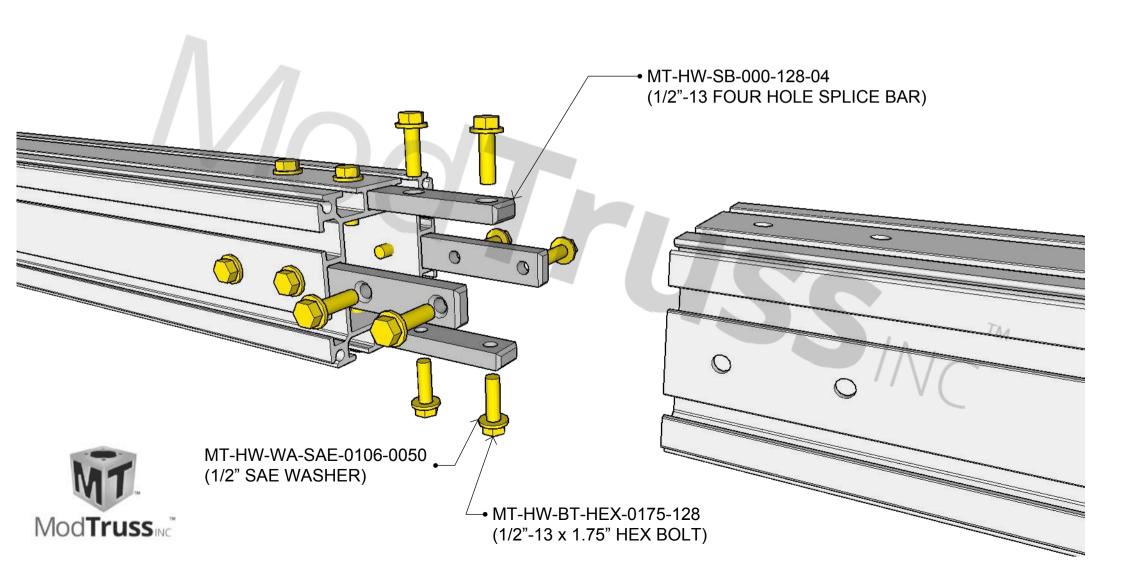
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 60 ft-lbs PERMANENT INSTALL: 90 ft-lbs

*NOTE:

WHEN MAKING AN END TO END CONNECTION WITH 6" x 6" EXTRUSION USE FOUR 1/2"-13, FOUR HOLE SPLICE BARS IN THE CLOSED EXTRUSION TRACKS. EXTRUSION MUST BE DRILLED AND OR DRILLED AND COUNTERSUNK FOR THE SPLICE BARS. THE TAPERED END OF THE SPLICE BAR ALLOWS FOR EASIER INSTALLATION WHEN INSTALLING THE SECOND EXTRUSION MEMBER. USE FOUR 1/2"-13 x 1.75" HEX BOLTS PER SPLICE BAR WITH THE SEAM OF THE TWO EXTRUSION MEMBERS SPLITTING THE SPLICE BAR TWO HOLES PER MEMBER.

- [4] MT-HW-SB-000-128-04 (1/2"-13 FOUR HOLE SPLICE BAR)
- [16] MT-HW-BT-HEX-0175-128 (1/2"-13 x 1.75" HEX BOLT)
- [16] MT-HW-WA-SAE-0106-0050 (1/2" SAE WASHER)



6" EXTRUSION - 6" TEE RIGGING MOUNT

RECOMMENDED TORQUE VALUE:

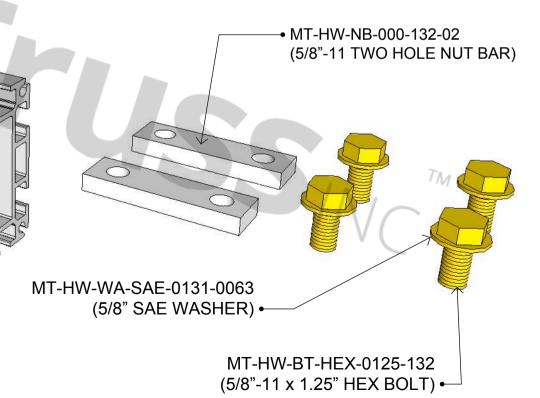
TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN CONNECTING A 6" TEE RIGGING MOUNT TO EXTRUSION, PLACE TWO 5/8"-11 TWO HOLE NUT BARS IN THE EXTRUSION TRACK. ORIENTATE THE RIGGING MOUNT AS SHOWN WITH THE MOUNTING SLOTS PERPENDICULAR TO THE LENGHT OF THE EXTRUSION AND TRACK. BOLT THROUGH THE TEE RIGGING MOUNT INTO THE NUT BARS USING FOUR 5/8"-11 x 1.25" HEX BOLTS AND WASHERS.

ModTruss_{INC}

- [1] MT-MR-RM-06-06-TEE-H (6" TEE RIGGING MOUNT)
- [4] MT-HW-BT-HEX-0125-132 (5/8"-11 x 1.25" HEX BOLT)
- [4] MT-HW-WA-SAE-0131-0063 (5/8" SAE WASHER)
- [2] MT-HW-NB-000-132-02 (5/8"-11 TWO HOLE NUT BAR)



6" EXTRUSION - GUSSET PLATE CORNER

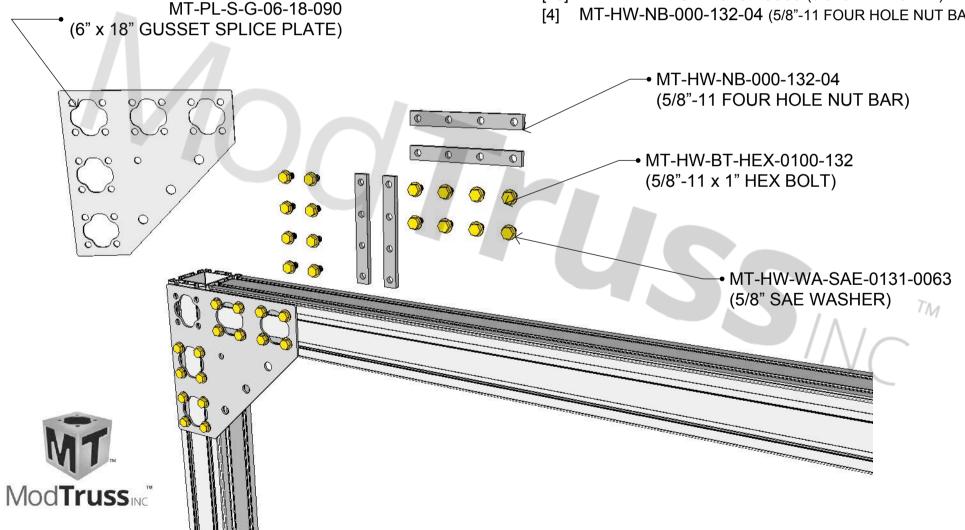
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN MAKING A 6" EXTRUSION CONNECTION WITH SPLICE PLATE, INSERT THE APPROPRIATE LENGTH NUT BARS INTO THE TRACK FOR THE SIZE SPLICE PLATE USED. CONNECT WITH 5/8"-11 x 1" GRADE 8 HEX BOLTS WITH SAE WASHER.

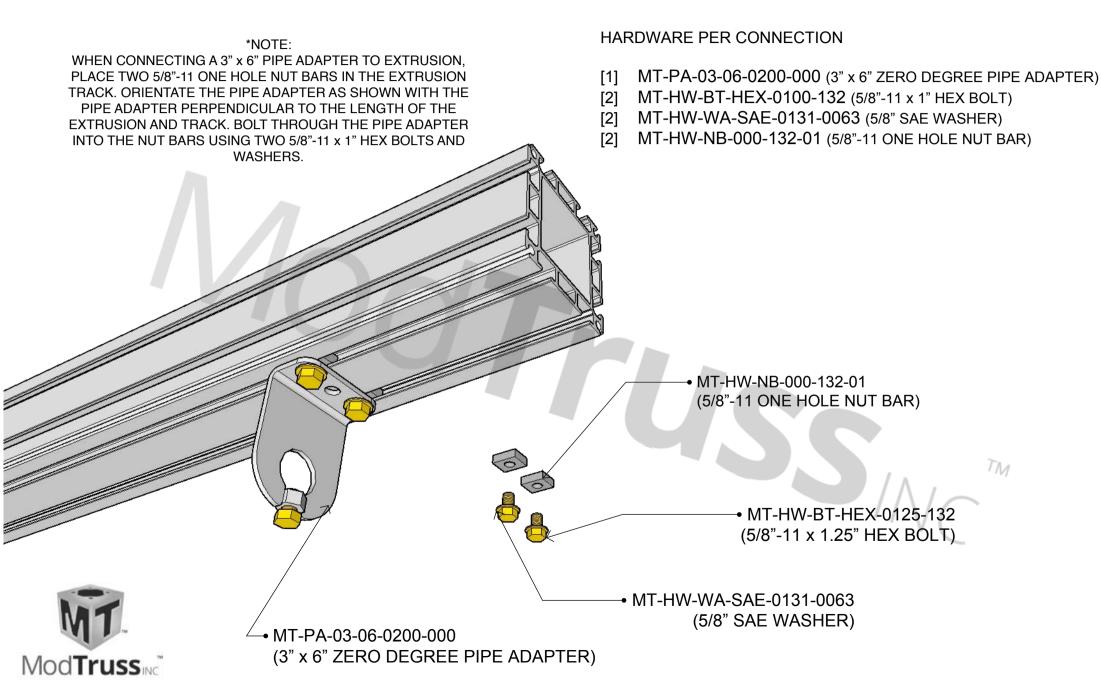
- MT-PL-S-G-06-18-090 (6" x 18" GUSSET SPLICE PLATE)
- [16] MT-HW-BT-HEX-0100-132 (5/8"-11 x 1" HEX BOLT)
- [16] MT-HW-WA-SAE-0131-0063 (5/8" SAE WASHER)
- [4] MT-HW-NB-000-132-04 (5/8"-11 FOUR HOLE NUT BAR)



6" EXTRUSION - 3" x 6" ZERO DEGREE PIPE ADAPTER

RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs



6" EXTRUSION MITERED CORNER

RECOMMENDED TORQUE VALUE:

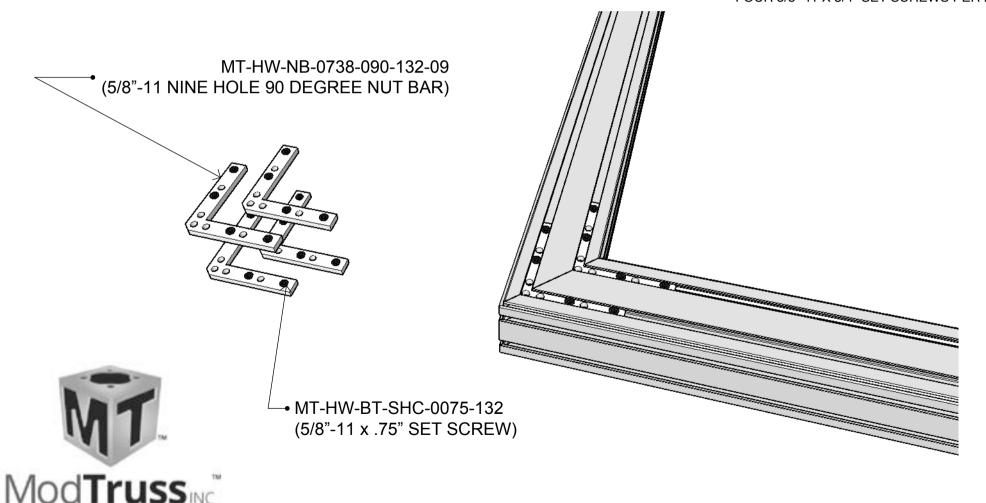
TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

HARDWARE PER CONNECTION

- [4] MT-HW-NB-0738-090-132-09 (5/8"-11 NINE HOLE 90 DEGREE NUT BAR)
- [16] MT-HW-BT-SHC-0075-132 (5/8"-11 x .75" SET SCREW)

*NOTE:

WHEN CONNECTING 6" EXTRUSION WITH A MITERED CORNER USE A TOTAL OF FOUR 90 DEGREE NUT BARS IN THE OPEN TRACK OF THE EXTRUSION. WITH TWO NUTS BARS IN THE TOP TWO TRACKS AND TWO NUT BARS IN THE BOTTOM TWO TRACKS SET SCREW DOWN WITH FOUR 5/8"-11 X 3/4" SET SCREWS PER NUT BAR.





12" EXTRUSION - END TO END COUNTERSUNK

RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 60 ft-lbs PERMANENT INSTALL: 90 ft-lbs

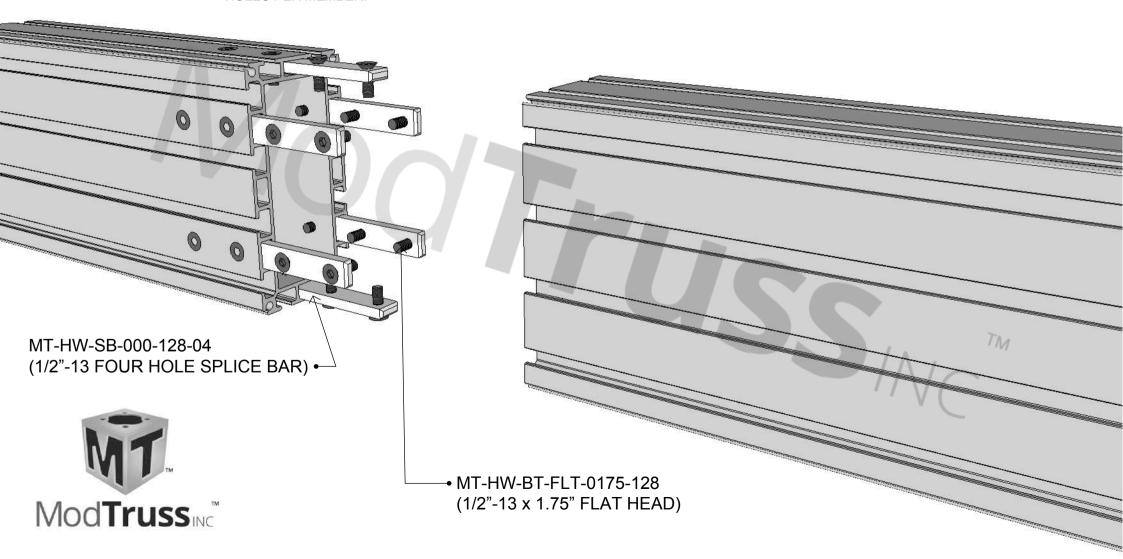
*NOTE:

WHEN MAKING AN END TO END CONNECTION WITH 6" x 12" EXTRUSION USE SIX 1/2"-13 FOUR HOLE SPLICE BARS IN THE CLOSED EXTRUSION TRACKS. EXTRUSION MUST BE DRILLED AND OR DRILLED AND COUNTERSUNK FOR THE SPLICE BARS. THE TAPERED END OF THE SPLICE BAR ALLOWS FOR EASIER INSTALLATION WHEN INSTALLING THE SECOND EXTRUSION MEMBER. USE FOUR 1/2"-13 x 1.75" FLAT HEADS PER SPLICE BAR WITH THE SEAM OF THE TWO EXTRUSION MEMBERS SPLITTING THE SPLICE BAR TWO HOLES PER MEMBER.

HARDWARE PER CONNECTION

6] MT-HW-SB-000-128-04 (1/2"-13 FOUR HOLE SPLICE BAR)

[24] MT-HW-BT-FLT-0175-128 (1/2"-13 x 1.75" FLAT HEAD)



12" EXTRUSION - END TO END HEX BOLT

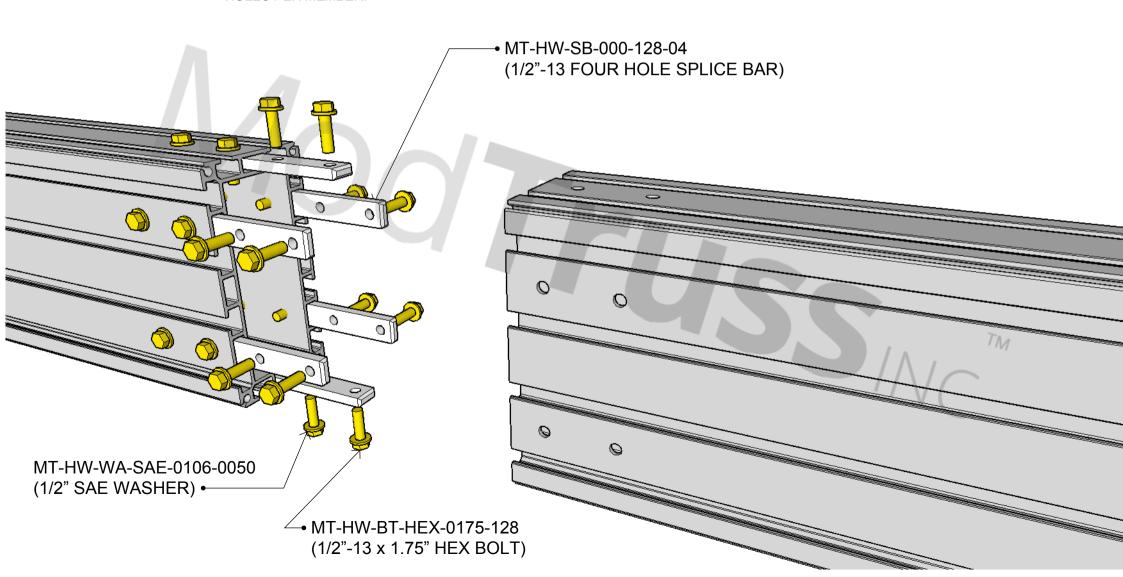
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 60 ft-lbs PERMANENT INSTALL: 90 ft-lbs

*NOTE:

WHEN MAKING AN END TO END CONNECTION WITH 6" x 12" EXTRUSION USE SIX 1/2"-13 FOUR HOLE SPLICE BARS IN THE CLOSED EXTRUSION TRACKS. EXTRUSION MUST BE DRILLED AND OR DRILLED AND COUNTERSUNK FOR THE SPLICE BARS. THE TAPERED END OF THE SPLICE BAR ALLOWS FOR EASIER INSTALLATION WHEN INSTALLING THE SECOND EXTRUSION MEMBER. USE FOUR 1/2"-13 x 1.75" HEX BOLTS PER SPLICE BAR WITH THE SEAM OF THE TWO EXTRUSION MEMBERS SPLITTING THE SPLICE BAR TWO HOLES PER MEMBER.

- [6] MT-HW-SB-000-128-04 (1/2"-13 FOUR HOLE SPLICE BAR)
- [24] MT-HW-BT-HEX-0175-128 (1/2"-13 x 1.75" HEX BOLT)
- [24] MT-HW-WA-SAE-0106-0050 (1/2" SAE WASHER)

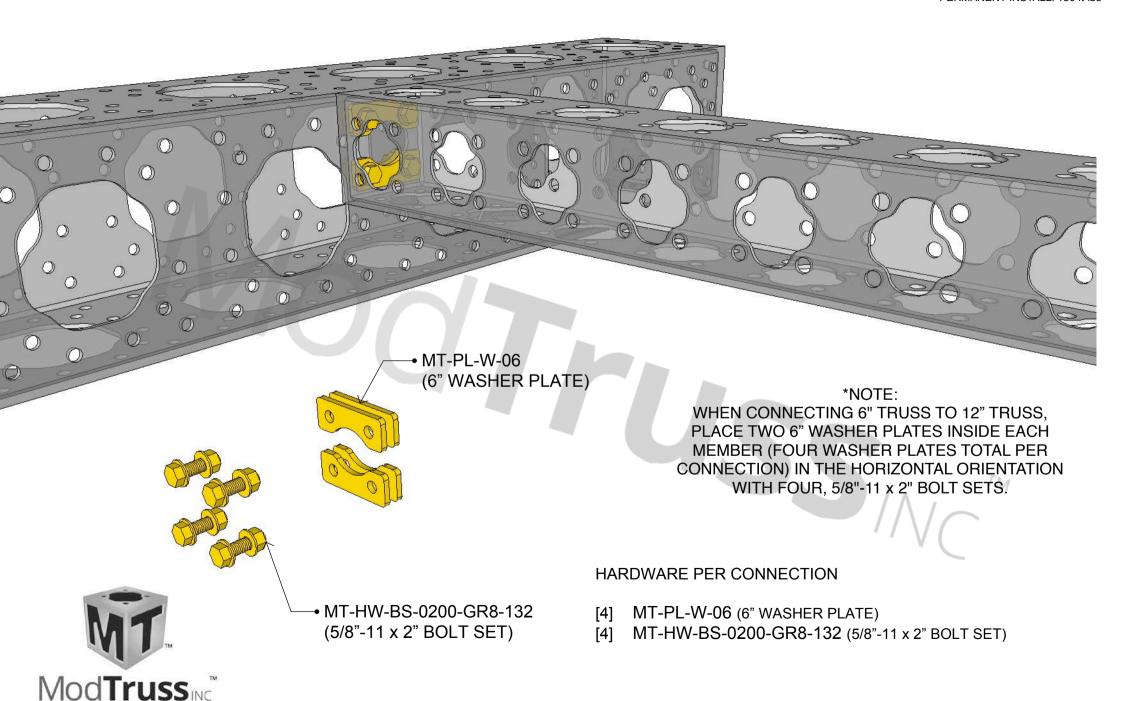




6" TRUSS - 12" TRUSS

RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

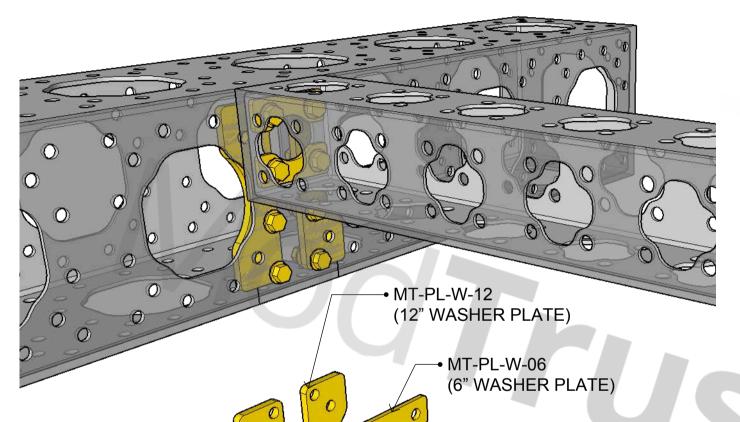


6" TRUSS - 12" TRUSS

ModTruss

RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs



 MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)

*NOTE:

WHEN CONNECTING 6" TRUSS TO 12" TRUSS, PLACE TWO 6" WASHER PLATES INSIDE THE 6" MEMBER IN THE HORIZONTAL ORIENTATION. PLACE TWO 12" WASHER PLATES INSIDE THE 12" MEMBER IN THE VERTICAL ORIENTATION AS SHOWN. USE FOUR 5/8"-11 x 2.5" BOLT SETS BOLTING THROUGH THE 6" TRUSS AND 6" WASHER PLATES TO THE 12" TRUSS AND 12" WASHER PLATES. USE FOUR 5/8"-11 x 2" BOLT SETS TO BOLT THE TWO 12" WASHER PLATE TO THE 12" TRUSS AS SHOWN.

TM

HARDWARE PER CONNECTION

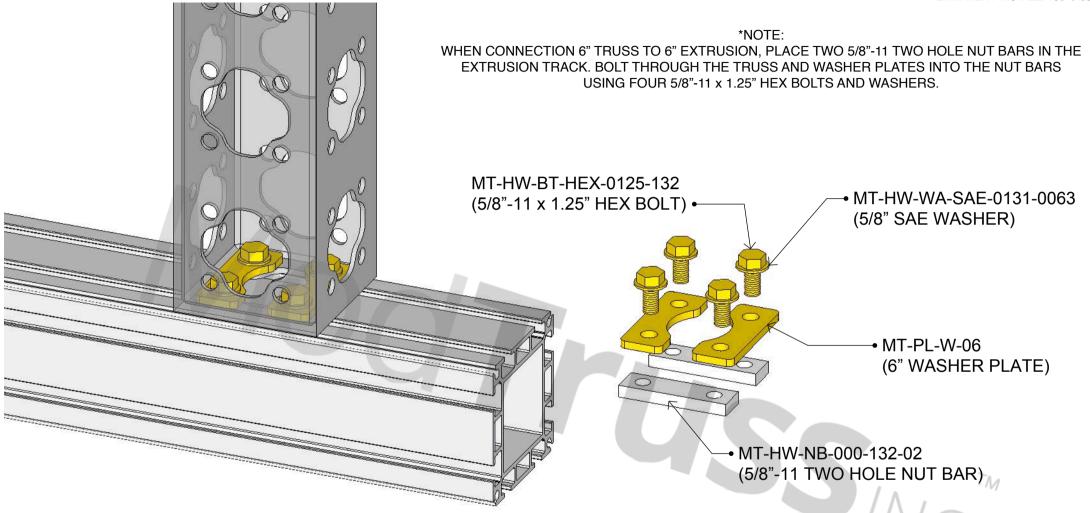
- [2] MT-PL-W-06 (6" WASHER PLATE)
- [2] MT-PL-W-12 (12" WASHER PLATE)
- [4] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)
- [4] MT-HW-BS-0250-GR8-132 (5/8"-11 x 2.5" BOLT SET)

 MT-HW-BS-0250-GR8-132 (5/8"-11 x 2.5" BOLT SET)

6" TRUSS - 6" EXTRUSION

RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs





- 2] MT-PL-W-06 (6" WASHER PLATE)
- 2] MT-HW-NB-000-132-02 (5/8"-11 TWO HOLE NUT BAR)
- [4] MT-HW-WA-SAE-0131-0063 (5/8" SAE WASHER)
- [4] MT-HW-BT-HEX-0125-132 (5/8"-11 x 1.25" HEX BOLT)



12" TRUSS - 12" EXTRUSION

RECOMMENDED TORQUE VALUE:

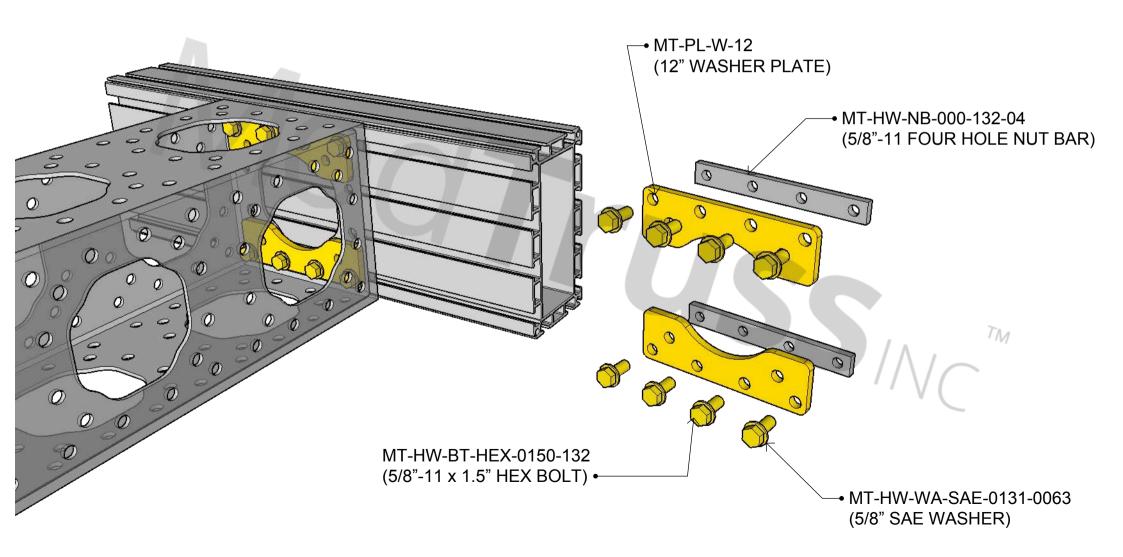
TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

HARDWARE PER CONNECTION

- [2] MT-PL-W-12 (12" WASHER PLATE)
- [2] MT-HW-NB-000-132-04 (5/8"-11 FOUR HOLE NUT BAR)
- [8] MT-HW-WA-SAE-0131-0063 (5/8" SAE WASHER)
- [8] MT-HW-BT-HEX-0150-132 (5/8"-11 x 1.5" HEX BOLT)

*NOTE:

WHEN CONNECTING 12" TRUSS TO 12" EXTRUSION, PLACE TWO 5/8"-11 FOUR HOLE NUT BARS IN THE EXTRUSION TRACK. BOLT THROUGH THE TRUSS AND WASHER PLATES INTO THE NUT BARS USING EIGHT 5/8"-11 x 1.5" HEX BOLTS AND WASHERS.



12" TRUSS - 12" EXTRUSION (PLATED)

RECOMMENDED TORQUE VALUE:

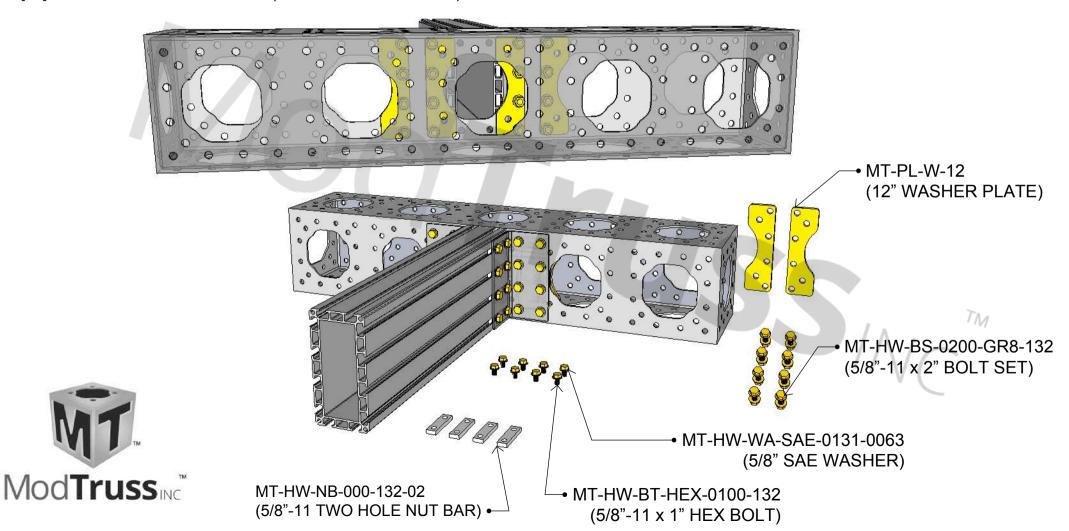
TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

HARDWARE PER CONNECTION

- [4] MT-PL-W-12 (12" WASHER PLATE)
- [16] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)
- [8] MT-HW-NB-000-132-02 (5/8"-11 TWO HOLE NUT BAR)
- [16] MT-HW-WA-SAE-0131-0063 (5/8" SAE WASHER)
- [16] MT-HW-BT-HEX-0150-132 (5/8"-11 x 1" HEX BOLT)

*NOTE:

WHEN CONNECTING 12" TRUSS TO 12" EXTRUSION, PLACE FOUR 5/8"-11 TWO HOLE NUT BARS IN THE EXTRUSION TRACK ON EACH SIDE OF THE EXTRUSION. BOLT THROUGH THE PLATE INTO THE TWO HOLE NUT BARS IN THE EXTRUSION. WITH 5/8"-11 x 2" BOLT SETS BOLT THROUGH THE PLATE AND TRUSS WITH WASHER PLATES INSIDE THE TRUSS FOR BOTH PLATES.



3" TRUSS TO 12" TRUSS

RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

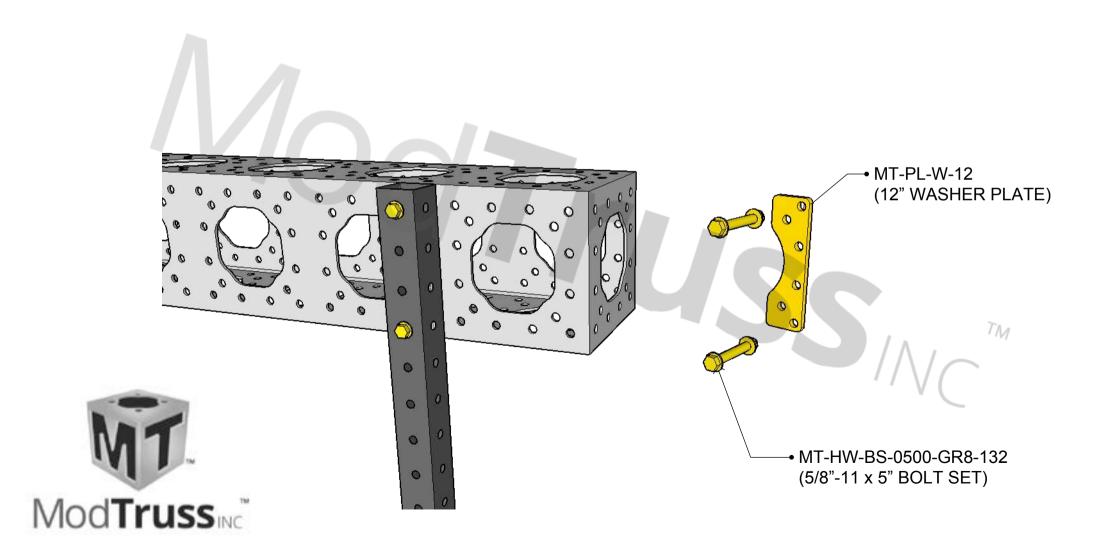
HARDWARE PER CONNECTION

- [1] MT-PL-W-12 (12" WASHER PLATE)
- [2] MT-HW-BS-0500-GR8-132 (5/8"-11 x 5" BOLT SET)

*NOTE:

WHEN CONNECTING 3" TRUSS TO THE FACE OF 12" TRUSS, BOLT THROUGH THE 3" TRUSS USING TWO OR FOUR 5/8"-11 x 5" BOLT SETS.

WITH THE 5/8"-11 x 5" BOLT SETS BOLT THROUGH THE 3" TRUSS INTO THE 12" TRUSS WITH A 12" WASHER PLATE INSIDE THE 12" TRUSS.



3" TRUSS TO 6" EXTRUSION

RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

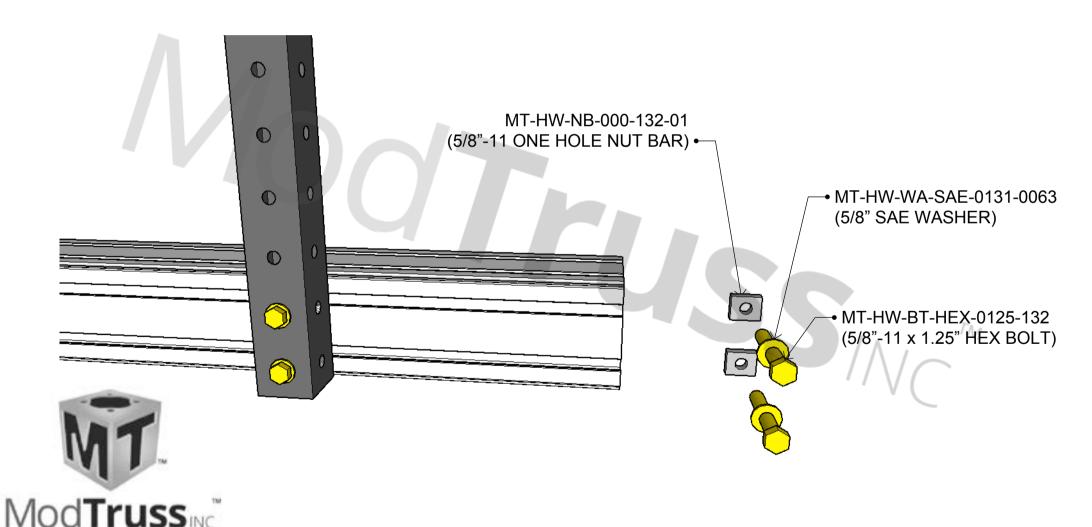
HARDWARE PER CONNECTION

- [2] MT-HW-NB-000-132-01 (5/8"-11 ONE HOLE NUT BAR)
- [2] MT-HW-WA-SAE-0131-0063 (5/8" SAE WASHER)
- [2] MT-HW-BT-HEX-0400-132 (5/8"-11 x 4" HEX BOLT)

*NOTE:

WHEN CONNECTING 3" TRUSS TO THE FACE OF 6" EXTRUSION BOLT THROUGH THE 3" TRUSS USING TWO 5/8"-11 x 4" HEX BOLTS WITH WASHERS.

WITH THE 5/8"-11 x 4" HARDWARE BOLT THROUGH THE 3" TRUSS INTO TWO ONE HONE NUT BARS INTO THE 6" EXTRUSION TRACK.



12" MODTRUSS TO 12" PLATED TRUSS

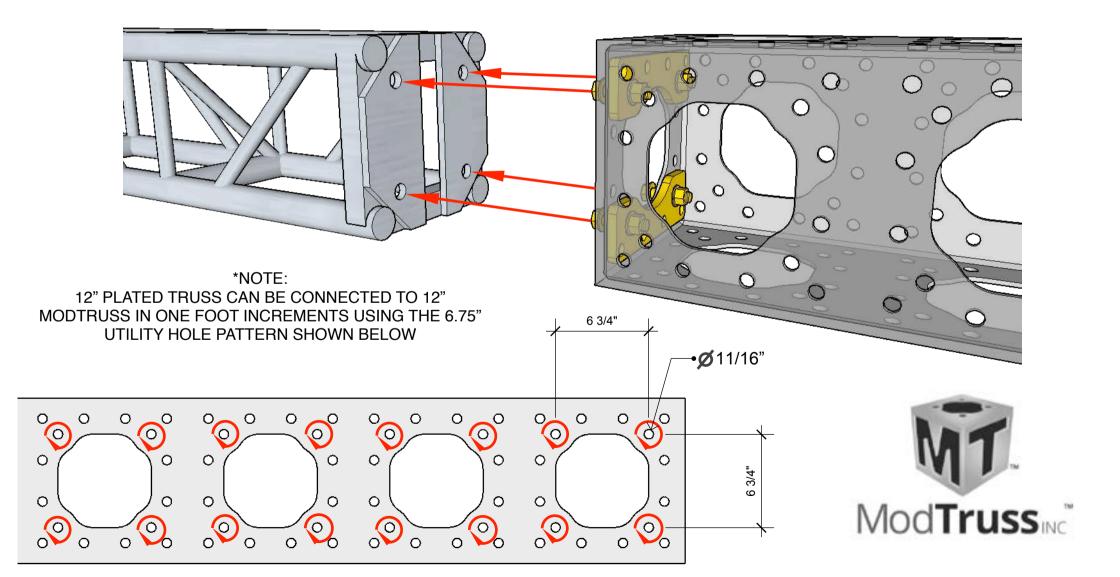
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs
PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN MAKING A 12" MODTRUSS CONNECTION TO 12" PLATED TRUSS, PLACE TWO 12" WASHER PLATES INSIDE THE MODTRUSS MEMBER IN THE HORIZONTAL ORIENTATION WITH FOUR, 5/8"-11 x 2.5" BOLT SETS. WASHERS OR HARDWARE MAY VARY FOR NONE MODTRUSS SIDE OF CONNECTION.

- [2] MT-PL-W-12 (12" WASHER PLATE)
- [4] MT-HW-BS-0250-GR8-132 (5/8"-11 x 2.5" BOLT SET)



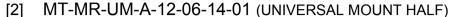


12" TRUSS - UNIVERSAL MOUNT AND BISCUITS

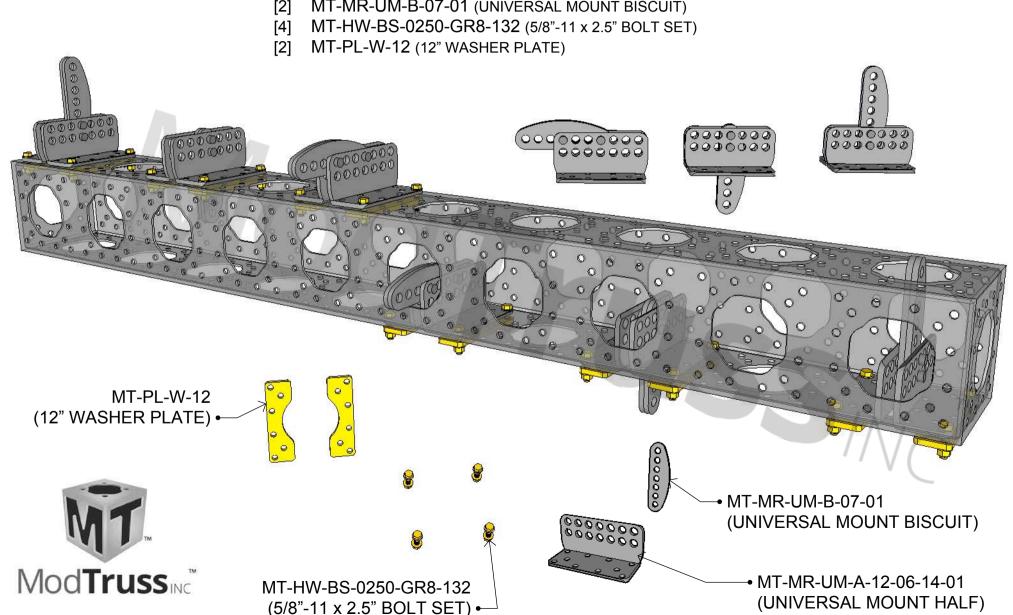
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

HARDWARE PER CONNECTION



[2] MT-MR-UM-B-07-01 (UNIVERSAL MOUNT BISCUIT)

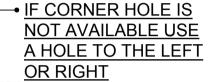


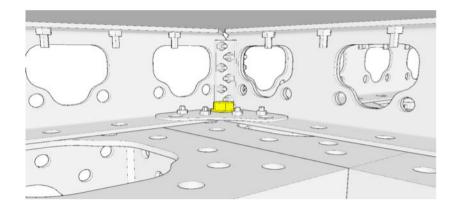
MODPANELS

RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

WHEN INSTALLING MODPANELS, PLACE A 5/8"-11 x 2" BOLT SET IN THE OUTER MOST CORNERS. THE BOST SET CAN BE PLACED THROUGH THE CORNER MOUNTING BRACKET OR THROUGH THE FRAME RAIL SIDES OF THE MODPANEL.





MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET) •



[4] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)



T SLOT EXTRUSION PIPE END TO END

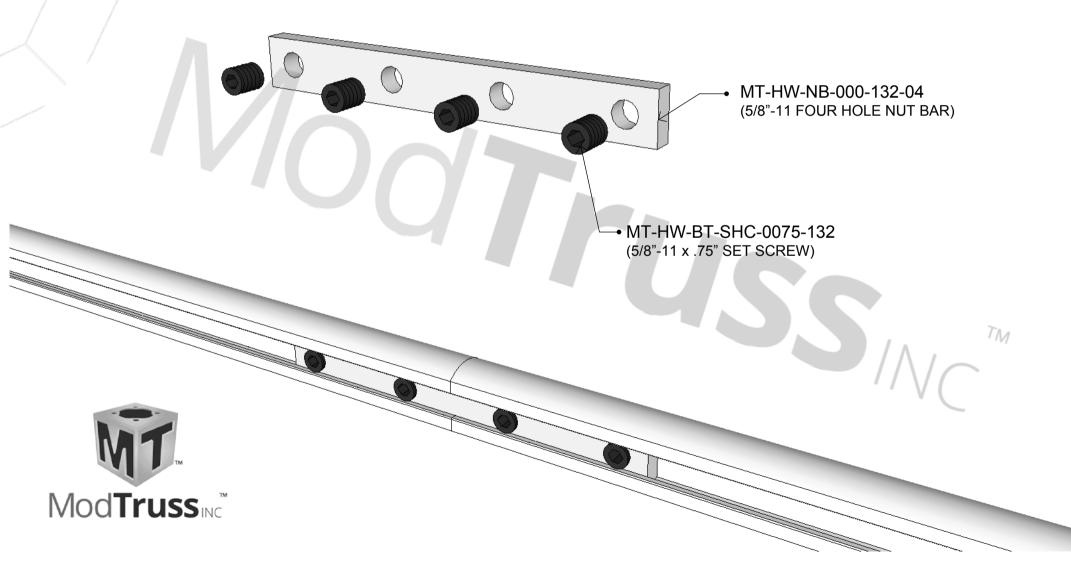
RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN CONNECTING T SLOT EXTRUSION PIPE END TO END, INSERT ONE FOUR-HOLE 5/8"-11 NUT BAR INTO THE EXTRUSION TRACK WITH TWO SET SCREWS PER END. CONNECT WITH FOUR 5/8"-11 SET SCREWS.

- [4] MT-HW-BT-SHC-0075-132 (5/8"-11 x .75" SET SCREW)
- [1] MT-HW-NB-000-132-04 (5/8"-11 FOUR HOLE NUT BAR)



JOIST HANGERS

WHEN CONNECTION A JOIST HANGER TO LUMBER YOU WILL NEED:

DEPENDING ON SIZE OF JOIST HANGED (1/2" BOLT SET) 2X4 JOIST HANGER: 1 MT-HW-BS-0300-GR8-128 2X6 JOIST HANGER: 2 MT-HW-BS-0300-GR8-128 2X8 JOIST HANGER: 2 MT-HW-BS-0300-GR8-128 2X12 JOIST HANGER: 3 MT-HW-BS-0300-GR8-128

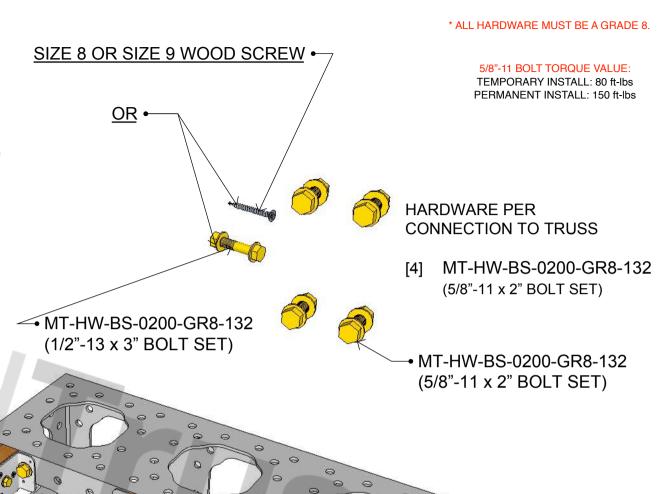
OR

DEPENDING ON SIZE OF JOIST HANGER YOU WILL USE 4-14 (WOOD SCREWS) 2X4 JOIST HANGER: 3 WOOD SCREWS 2X6 JOIST HANGER: 5 WOOD SCREWS 2X8 JOIST HANGER: 7 WOOD SCREWS

IN PERMANENT APPLICATIONS USE WOOD SCREWS.

IN TEMPORARY APPLICATIONS
WHERE FASTENERS WILL
NEED TO BE REMOVED USE
1/2"-13 BOLT SETS





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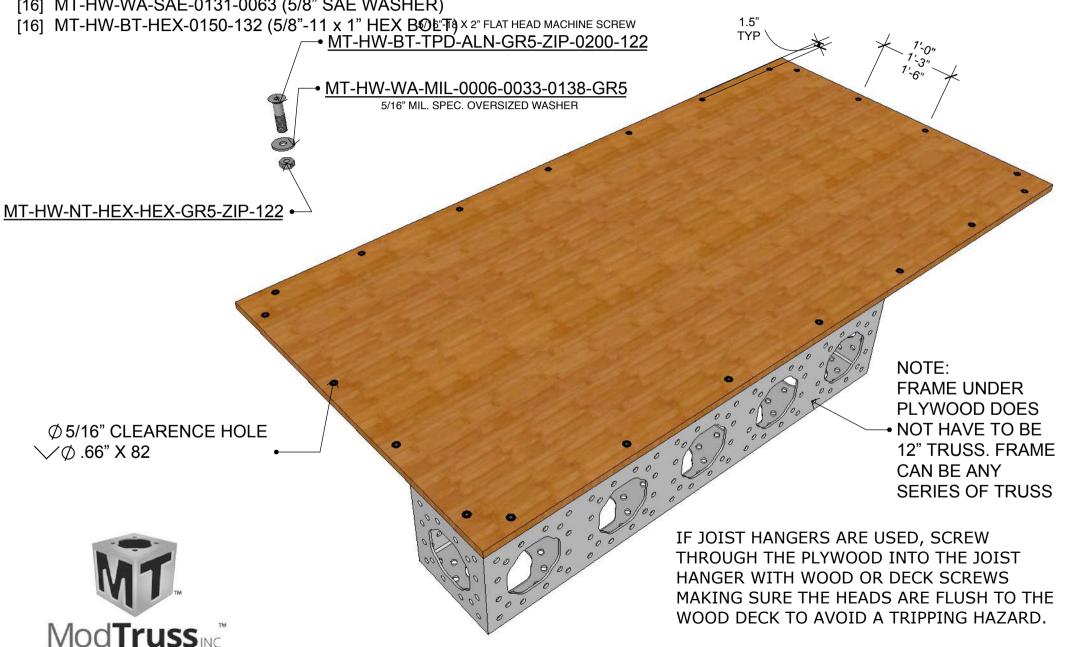
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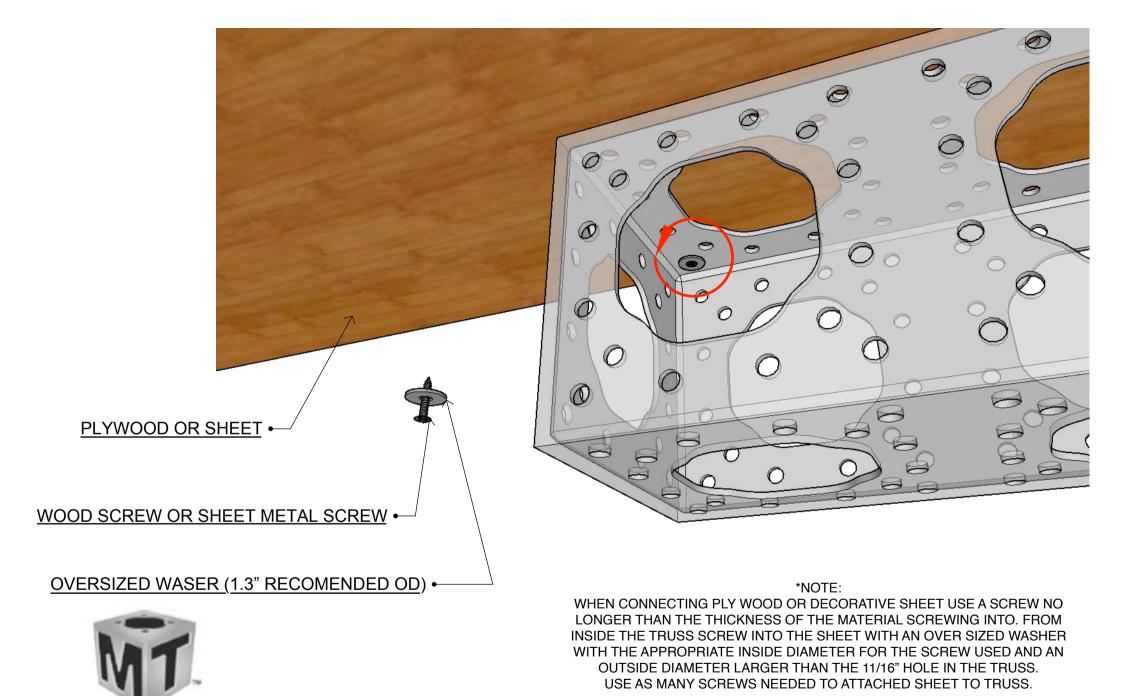
HARDWARE PER CONNECTION

- [X] MT-PL-W-12 (12" WASHER PLATE)
- [16] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)
- MT-HW-NB-000-132-02 (5/8"-11 TWO HOLE NUT BAR)
- [16] MT-HW-WA-SAE-0131-0063 (5/8" SAE WASHER)

5/16" CLEARANCE HOLES SHOULD BE DRILLED AND COUNTER SUNK FOR 5/16"-18 FLAT HEAD MACHINE SCREWS, ALL HOLES SHOULD START 1.5" FROM THE EDGE AND DRILLED TO MATCH THE 3" HOLE PATTERN IN ALL ModTruss COMPONENTS. HOLES CAN BE DRILLED 12" 15" OR 18" ON CENTER.

DOUBLED SIDED TAPE CAN BE USED BETWEEN PLYWOOD AND TRUSS TO AVOID SQUEAKING OR SHIFTING.





ModTruss

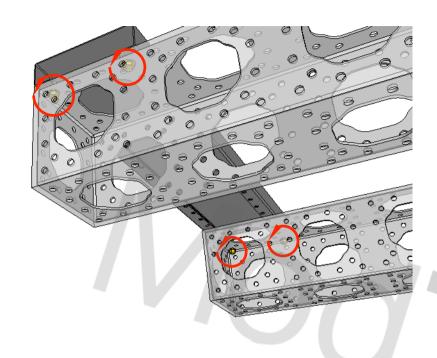
GUARDRAIL 4'-0" CC +- 12" 45.75" 19" (MID RAIL TO BE 2.25" LESS THEN VERTICAL MAX **CENTER TO CENTER DIMENSION)** 42" 19" 55" MAX 4"-6" 0 0 0 0 0 0 00000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 12" 0 0 0 0 0 0

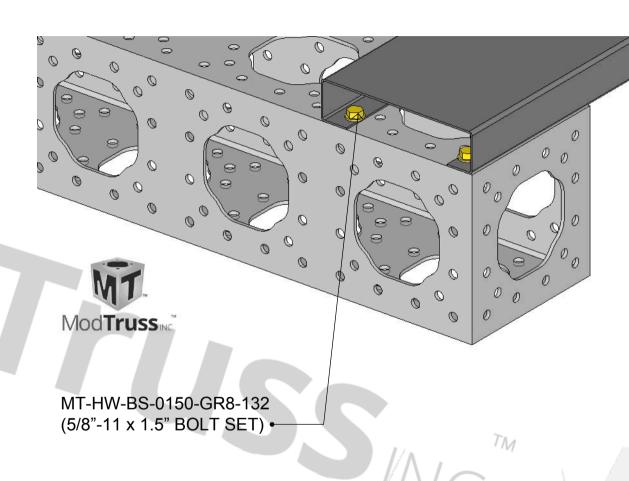


3" x 12" STEEL MODPLANK TO TRUSS

RECOMMENDED TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs





HARDWARE PER CONNECTION

[4] MT-HW-BS-0150-GR8-132 (5/8"-11 x 1.5" BOLT SET)

*NOTE
WHEN BOLTING A STEEL MODPLANK TO TRUSS USE FOUR 5/8"-11 x 1.5" BOLTS
SETS IN THE OUTTER MOST CORNERS POSSIBLE.

SLEEVE BLOCKS

HARDWARE PER CONNECTION

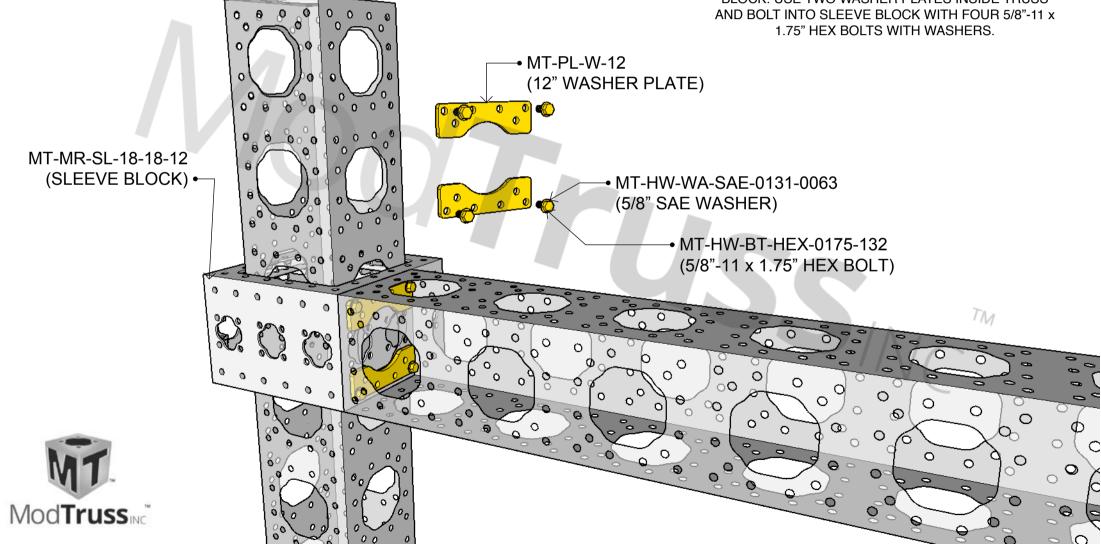
- [1] MT-MR-SL-18-18-12 (SLEEVE BLOCK)
- [4] MT-HW-BT-HEX-0175-132 (5/8"-11 x 1.75" HEX BOLT)
- [4] MT-HW-WA-SAE-0131-0063 (5/8" SAE WASHER)
- [2] MT-PL-W-12 (12" WASHER PLATE)

5/8"-11 BOLT TORQUE VALUE:

TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

*NOTE:

WHEN MOUNTING TRUSS TO A SLEEVE BLOCK USE WASHER PLATES INSIDE TRUSS BEING MOUNTED TO THE SLEEVE BLOCK. WASHER PLATES AND NUTS ARE NOT NEEDED INSIDE THE SLEEVE BLOCK AS MOUNTING UTILIZES WELD NUTS INSIDE SLEEVE BLOCK. USE TWO WASHER PLATES INSIDE TRUSS AND BOLT INTO SLEEVE BLOCK WITH FOUR 5/8"-11 x



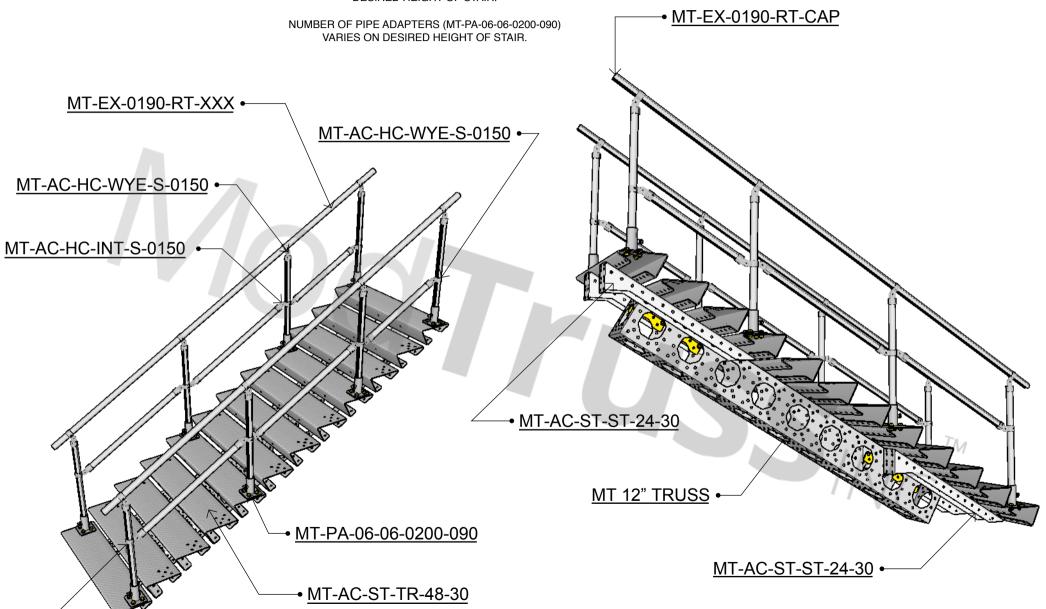
STAIRS

MT-AC-HC-WYE-S-0150

FOUR STAIR STRINGERS (MT-AC-ST-ST-24-30) PER STAIR.

NUMBER OF STAIR TREADS (MT-AC-ST-TR-48-30) VARIES ON DESIRD HEIGHT OF STAIR.

LENGTH OF 12" TRUSS (MT-TR-12-12-XXX-AL) VARIES ON DESIRED HEIGHT OF STAIR.



RECOMMENDED TORQUE VALUE: TEMPORARY INSTALL: 80 ft-lbs

PERMANENT INSTALL: 150 ft-lbs

USE A 5/8"-11 X 2.25" FULL THREAD HEX BOLT TO SET SCREW THE T SLOT PIPE INTO THE PIPE ADAPTER. ORIENTATE THE PIPE SO THE FLAT FACE IS TO THE DOWNWARD PART OF THE STAIR. THIS ALOWS THE BOLT TO TIGHTEN INTO THE FLAT FACE OF THE T SLOT

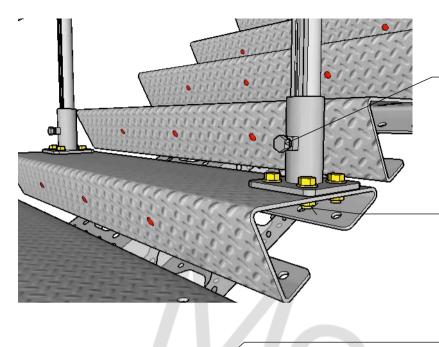
> WHEN ATTACHING PIPE ADAPTERS TO THE STAIR TREADS USE FOUR 5/8"-11 X 1.5" BOLT SETS WITH THE TAILS FACING DOWN AS SHOWN. 5/8"-11 X 2" BOLT SETS CAN BE **USED WITH EXCESS BOLT TAIL**

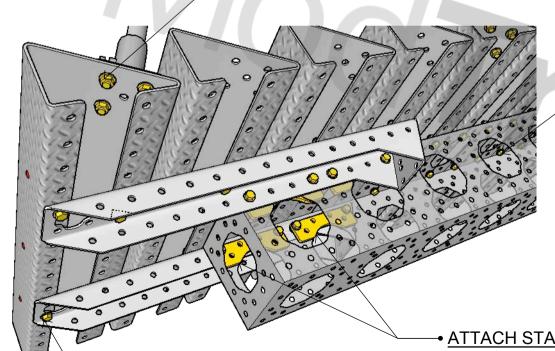
ATTACH PIPE ADAPTERS TO TREADS WITH FOUR BOLT SETS PER PIPE ADAPTER

ATTACH STAIR TREADS TO TRUSS WITH FOUR BOLT SETS PER STAIR TREAD

> STAIR STRINGERS, PIPE ADAPTERS AND TRUSS LOCATION MAY VARY BASED ON YOUR HEIGHT OF STAIR AND TRUSS LENGHT USED. SEE YOUR PROJECT **BUILD DRAWINGS FOR LOCATIONS**

ATTACH STAIR STRINGERS TO TRUSS WITH FOUR BOLT SETS AND TWO 12" WASHER PLATES PER STRINGER





ATTACH STAIR TREADS TO

SETS PER STAIR TREAD

STRINGERS WITH FOUR BOLT

STAIRS



WHEN CONNECTING STAIR TREADS TO THE TRUSS, ARRANGE 5/8"-11 X 1.5" BOLT SETS AS SHOWN. (FOUR BOLT SETS PER TREAD) 5/8"-11 X 2" BOLT SETS CAN BE USED WITH EXCESS BOLT TAIL

* ALL HARDWARE TO BE GRADE 8.

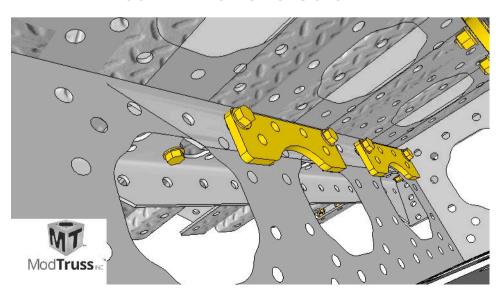
RECOMMENDED TORQUE VALUE:

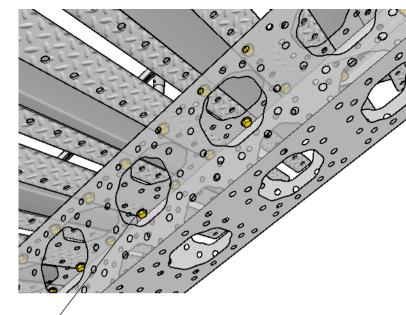
TEMPORARY INSTALL: 80 ft-lbs PERMANENT INSTALL: 150 ft-lbs

ORIENTATION OF BOLTS WHEN ATTACHING TREADS TO TRUSS DOES NOT MATTER, BOLT HEADS CAN BE UP OR DOWN

STAIRS

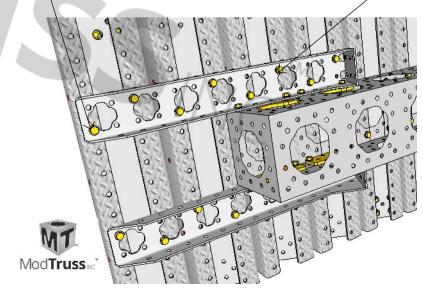
WHEN BOLTING STAIR STRINGERS TO THE TRUSS, BE SURE TO USE 12" WASHER PLATES INSIDE TRUSS WITH TWO 5/8"-11 X 2" BOLT SETS AS SHOWN





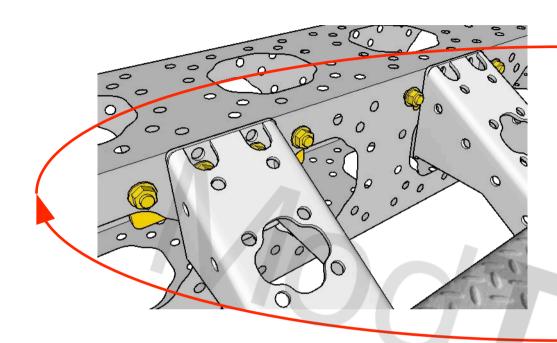
WHEN ATTACHING THE BOTTOM TREAD TO BOTTOM STAIR STRINGERS THE BOLT TAIL MUST BE FACING UP SO IT DOES NOT INTERFERE WITH GROUND.

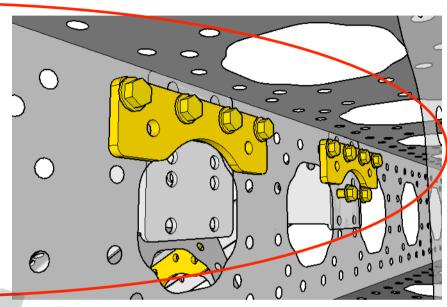
BOLT TREADS TO STAIR STRINGERS WITH 5/8"-11 X 1.5" BOT SETS (FOUR BOLT SETS PER TREAD)



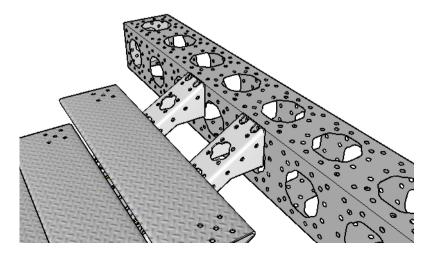
STAIRS

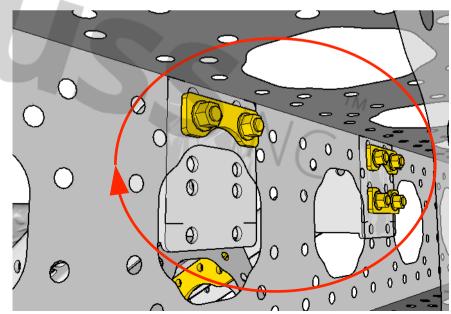
STAIR ASSEMBLY CAN BE MOUNTED TO FRAME USING 12" WASHER PLATES OR 6" WASHER PLATES AS SHOWN BELOW WITH 5/8"-11 X 2" BOLT SETS

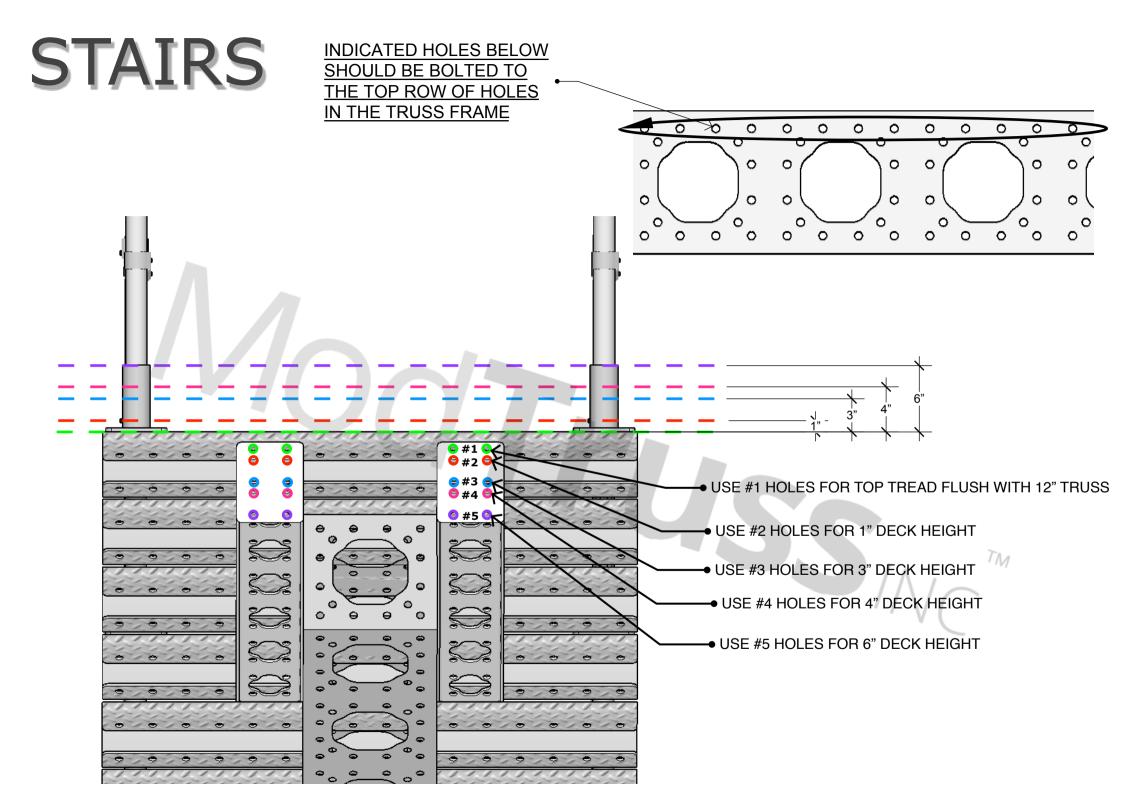


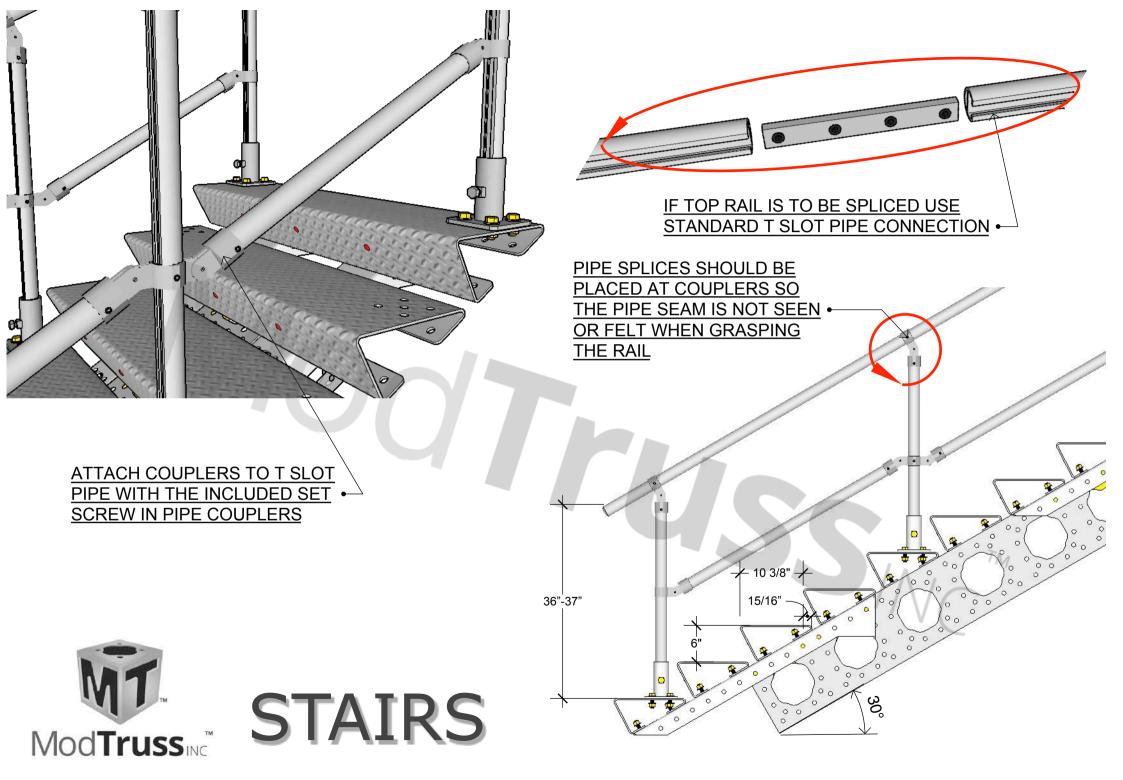


WHEN CONNECTING STAIR ASSEMBLY TO FRAME IT IS RECOMMENDED TO LEAVE THE TOP TREAD OFF ALLOWING EASIER ACCESS TO THE STRINGER MOUNTING FACE FOR TIGHTENING BOLTS











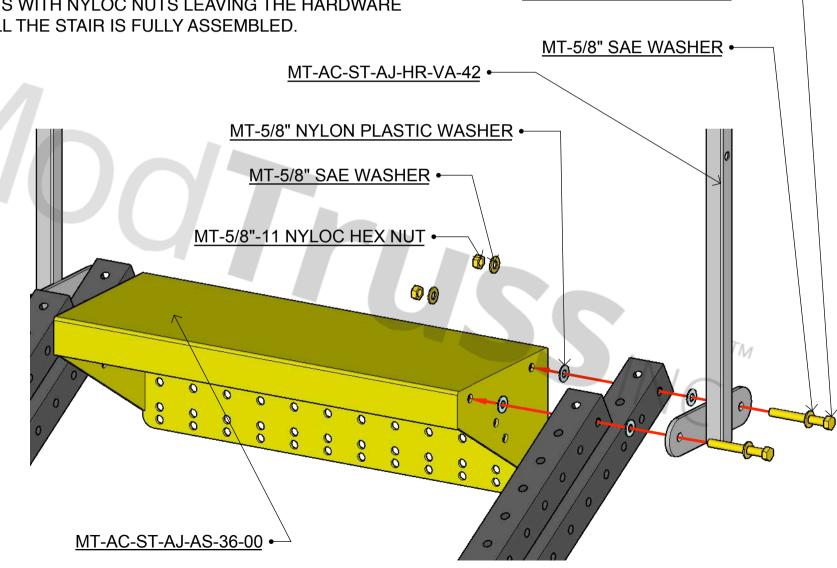
START BY BOLTING THE TOP STAIR TREAD TO THE FRAME OF THE STRUCTURE. THIS CAN BE DONE WITH A RIGGING MOUNT TO THE TOP FACE OF THE TREAD IF NEEDED. BOLT TO TRUSS FRAME WITH 5/8"-11 X 2" BOLT SETS WITH WASHER PLATES INSIDE TRUSS.

ONCE THE TOP TREAD IS BOLTED TO THE TRUSS FRAME START ASSEMBLING THE 3" TRUSS AND GUARDRAIL POST TO THE TOP TREAD WITH PLASTIC SPACER WASHERS BETWEEN THE 3" TRUSS AND THE TOP TREAD AS WELL AS BETWEEN THE 3" TRUSS AND GUARDRAIL POST PLATE. USE 5/8"-11 X 5" BOLT SETS WITH NYLOC NUTS LEAVING THE HARDWARE LOOSE UNTILL THE STAIR IS FULLY ASSEMBLED.

ModTruss

ADJUSTABLE STAIRS

MT-5/8"-11 x 5" HEX BOLT •



BOLTING TREADS TO 3" TRUSS WITHOUT GUARDRAIL POST USE 5/8"-11 x 4.5" BOLT SETS WITH NYLOC NUTS AND PLASTIC SPACER WASHERS BETWEEN THE STAIR TREAD AND THE 3" TRUSS.

WHEN BOLTING TREADS TO 3" TRUSS WITH **GUARDRAIL POST OR CASTER MOUNT USE** 5/8"-11 x 5" BOLT SETS WITH NYLOC NUTS AND PLASTIC SPACER WASHERS BETWEEN THE STAIR TREAD AND THE 3" TRUSS.

LEAVE ALL HARDWARE LOOSE UNTILL STAIR IS FULLY ASSEMBLED BOLTING TREADS STARTING AT THE TOP AND WORKING DOWN TO THE BOTTOM.

ONCE ALL THE TREADS AND VERTICAL POSTS ARE INSTALLED TIGHTEN THE HARDWARE SO THE TREADS AND POSTS DO NOT WIGGLE BUT LOOSE ENOUGH TO ALLOW THE BOLT TO SPIN WITH A WRENCH SO THE STAIR CAN SCISSOR AND ADJUST.

MT-5/8"-11 NYLOC HEX NUT •

MT-5/8" SAE WASHER

