



PREPARED BY:  
**ModTruss** INC

# CONNECTION GUIDE

REV DATE: JULY 2024

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.

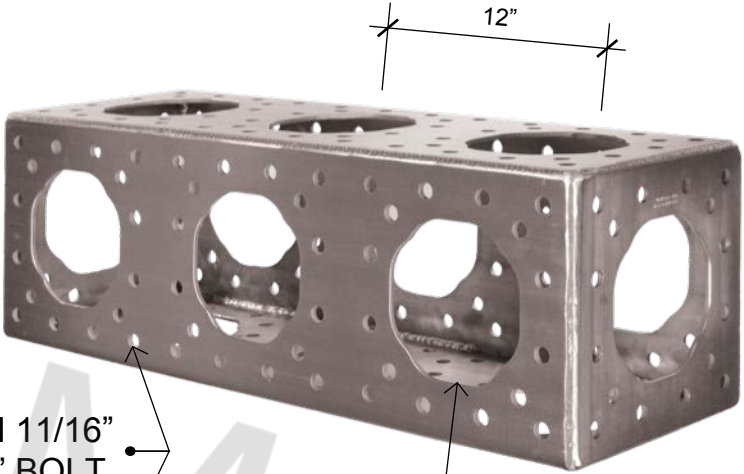
THE FOLLOWING INSTRUCTIONS ARE THE GUIDELINES FOR GENERAL CONNECTIONS TO ACHIVE EASE OF CONSTRUCTION FOR THE SUPPORTING MODTRUSS PRODUCTS.

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 MINIUIM (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)

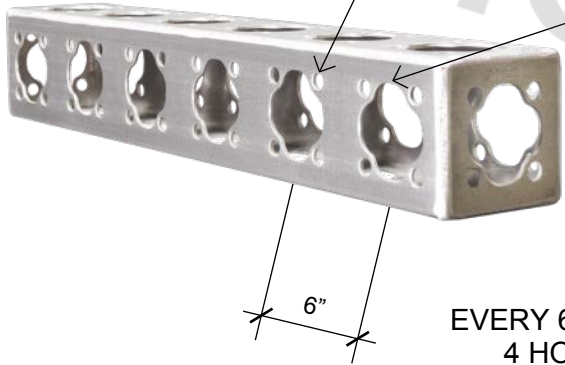


EVERY 12" OF THE 12" TRUSS SERIES UTILIZES 16 HOLES AND ONE CLOVER EVERY 12" CENTER TO CENTER



TRUSS USES AN 11/16" HOLE FOR A 5/8" BOLT

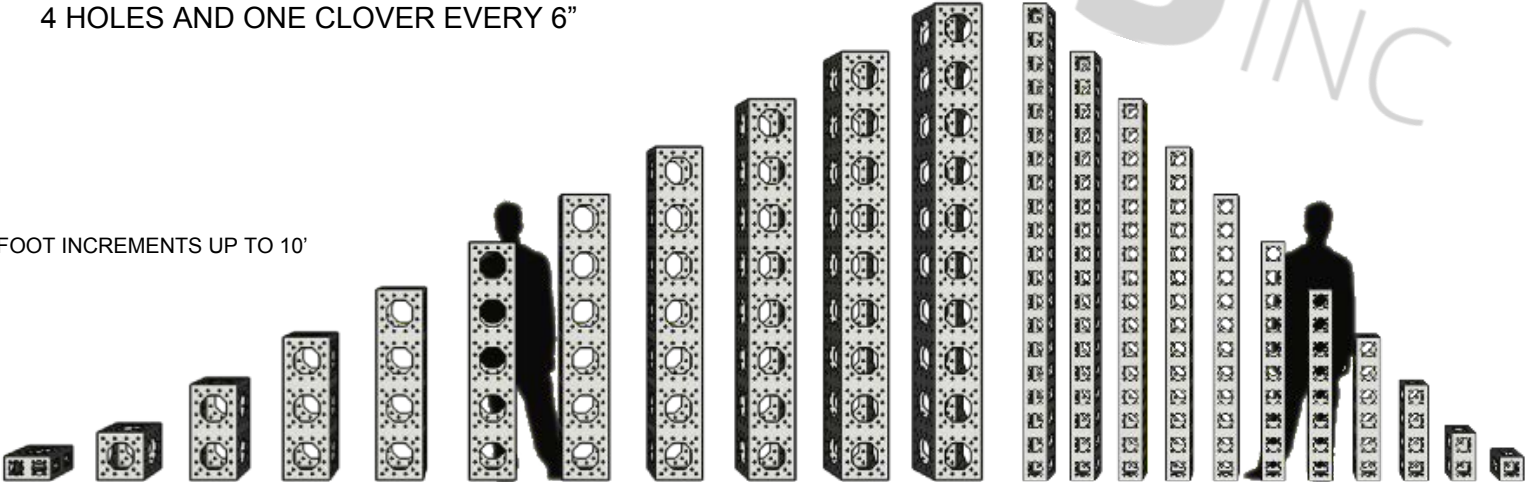
THE CUT OUT IN BOTH 6" AND 12" MODTRUSS IS CALLED THE CLOVER. THE PURPOSE OF THE CLOVER IS FOR WEIGHT REDUCTION AS WELL AS ACCESSIBILITY INSIDE THE TRUSS FOR INSTALLATION.

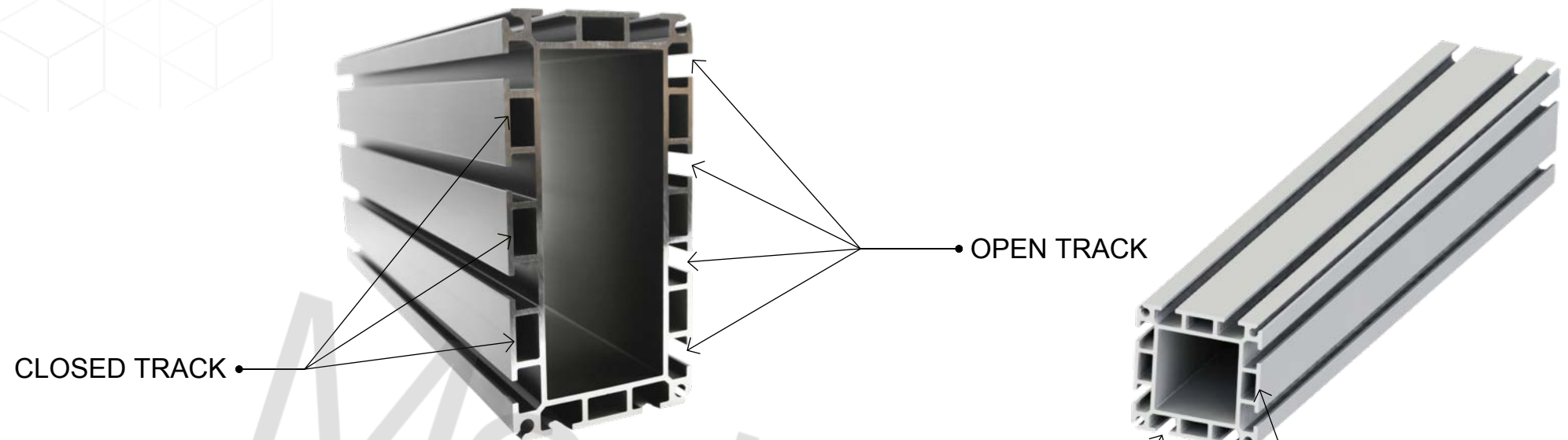


EVERY 6" OF THE 6" TRUSS SERIES UTILIZES 4 HOLES AND ONE CLOVER EVERY 6"

## ModTruss TR Series

ALL 3 SERIES OF MODTRUSS TRUSS COME IN ONE FOOT INCREMENTS UP TO 10'





ALL MODTRUSS SERIES OF EXTRUSION UTILIZES A "T TRACK" 3 INCHES CENTER TO CENTER TO INTEGRATE WITH ALL MODTRUSS COMPONENTS.

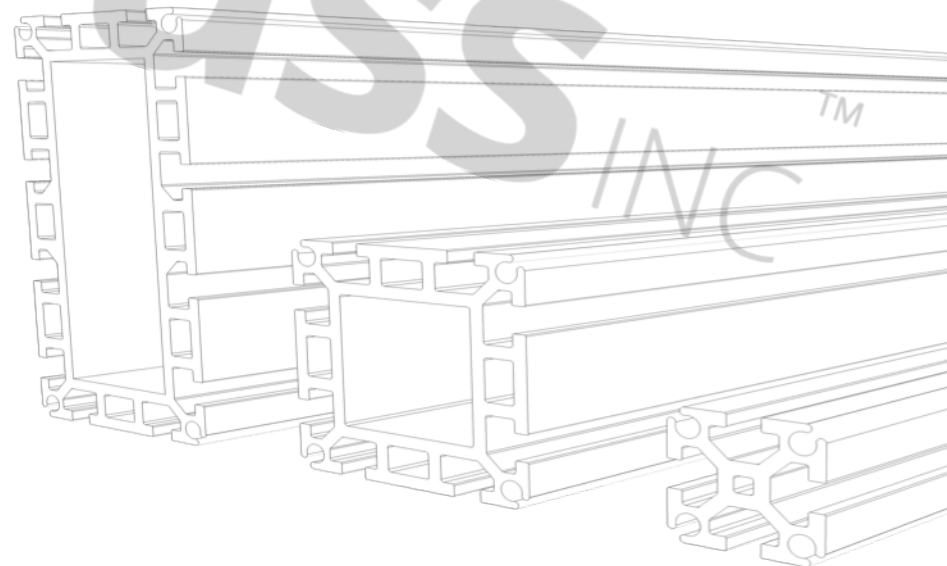
THE 6" AND 12" EXTRUSION HAVE TWO TYPES OF TRACKS:

- THE "OPEN TRACK" IS DESIGNED FOR INFINITE BOLTING OPTIONS USING ANY OF OUR NUT BAR SERIES.
- THE "CLOSED TRACK" IS DESIGNED TO BE DRILLED THROUGH ALL FOR END SPLICING.

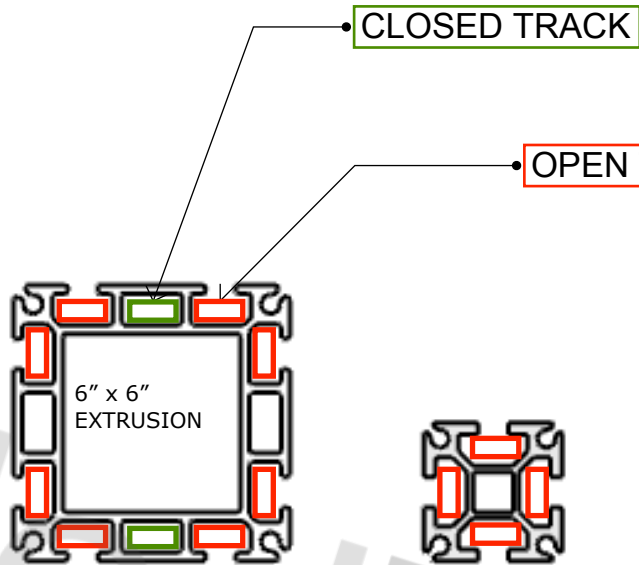
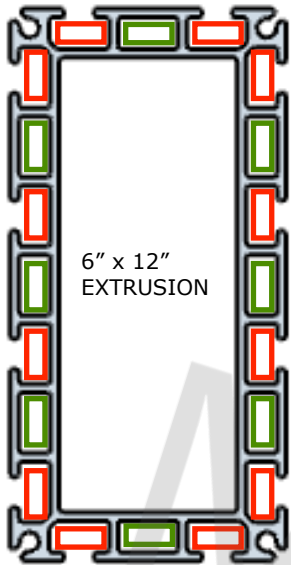
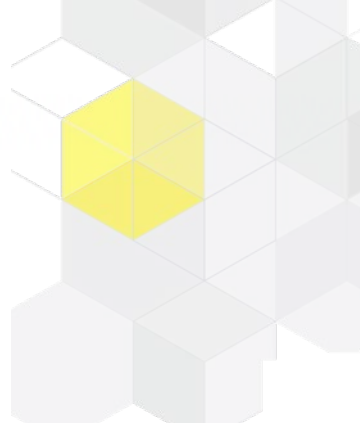
THIS KEEPS THE SPLICING HARDWARE AND ACCESSORY HARDWARE IN SEPARATE TRACKS SO COLLISION IS NEVER AN ISSUE.

ALL FOUR SIDES OF THE EXTRUSION HAVE BOTH OPEN AND CLOSED TRACKS FOR END SPLICING AND RIGGING.

OPEN TRACK

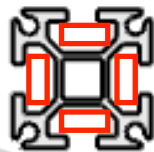


**ModTruss EX Series**



CLOSED TRACK

OPEN TRACK

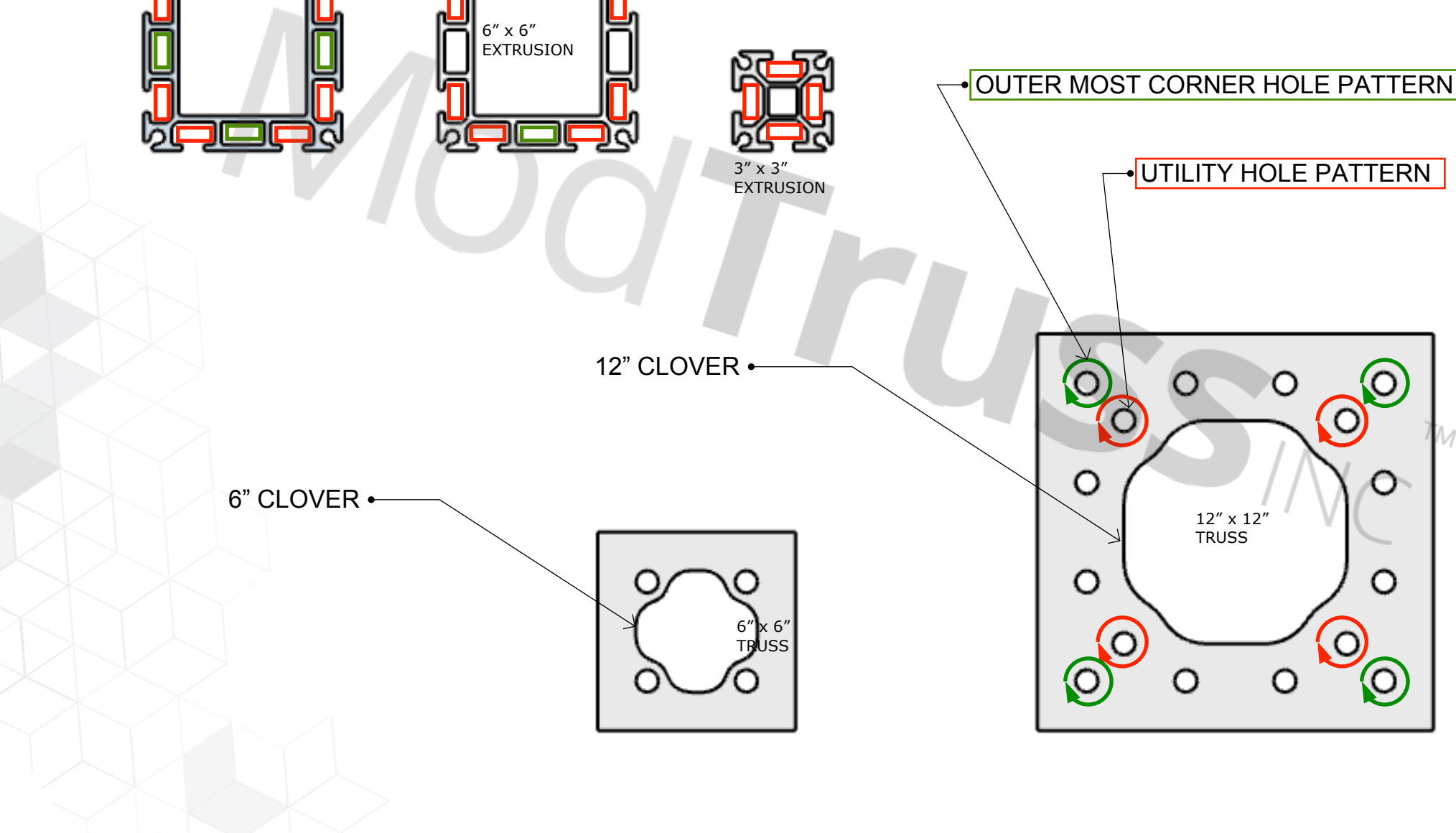
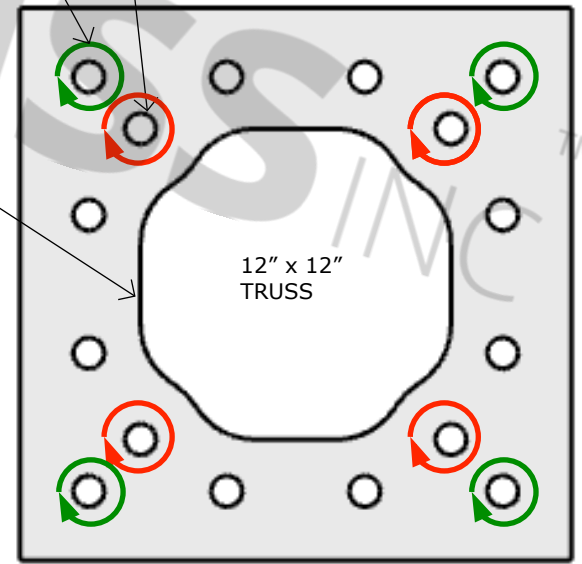
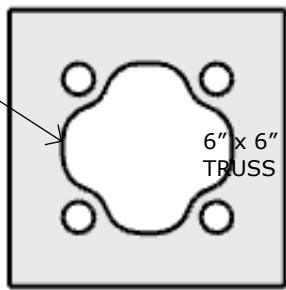


OUTER MOST CORNER HOLE PATTERN

UTILITY HOLE PATTERN

12" CLOVER

6" CLOVER



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



A BOLT SET CONSISTS OF:

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

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# 3" EXTRUSION - END TO END

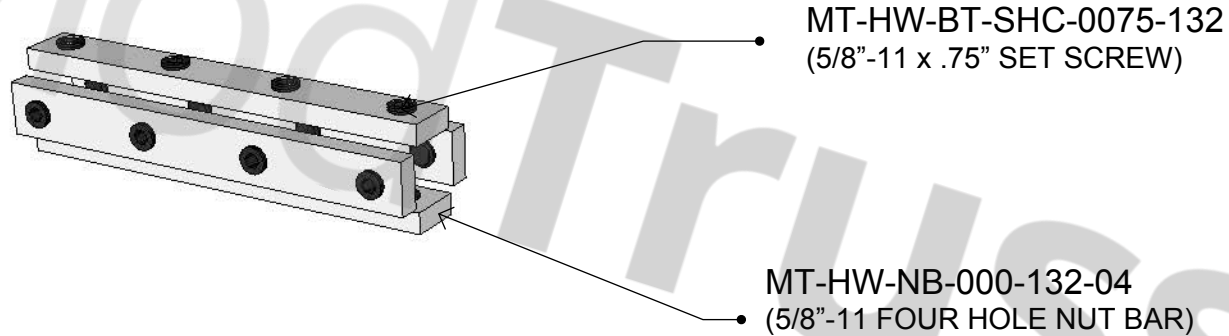
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

**\*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. NUT BARS SHOULD BE CENTERED WITH THE EXTRUSION ENDS SO SET SCREWS ARE NOT IN CONTACT WITH EDGE.

## 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)



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# 3" EXTRUSION - GUSSET PLATE CORNER

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 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.

## HARDWARE PER CONNECTION

- [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)

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

MT-HW-NB-000-132-03  
(5/8"-11 THREE HOLE NUT BAR)

MT-PL-S-G-03-12-090  
(3" x 12" GUSSET SPLICE PLATE)

MT-HW-WA-SAE-0131-0063  
(5/8" SAE WASHER)

MT-HW-BT-HEX-0100-132  
(5/8"-11 x 1" HEX BOLT)



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# 3" EXTRUSION - GUSSET PLATE TEE

\* ALL HARDWARE TO BE GRADE 8.

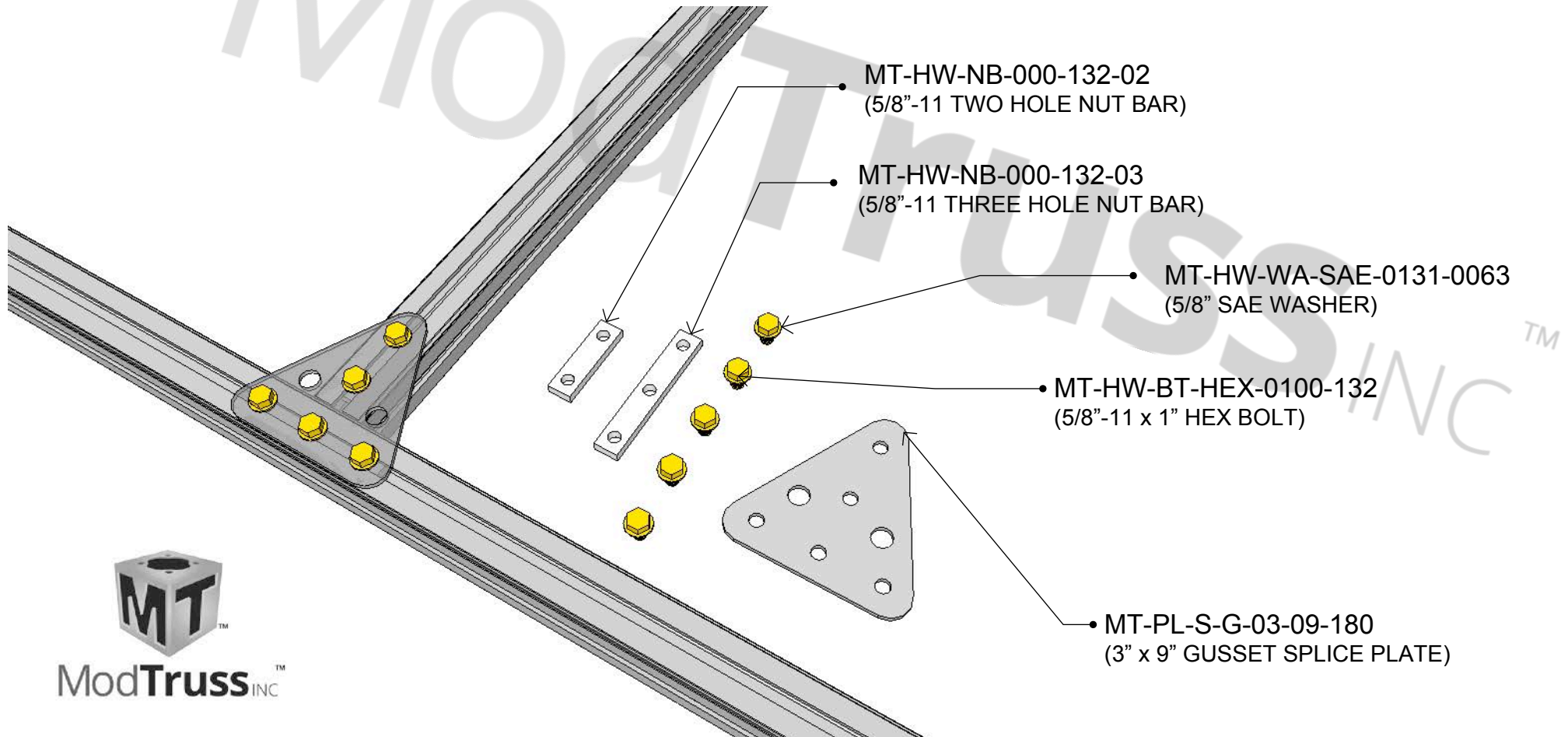
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

**\*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.

## HARDWARE PER CONNECTION

- [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)



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# 3" EXTRUSION - SWIVEL HOIST RING

\* ALL HARDWARE TO BE GRADE 8.

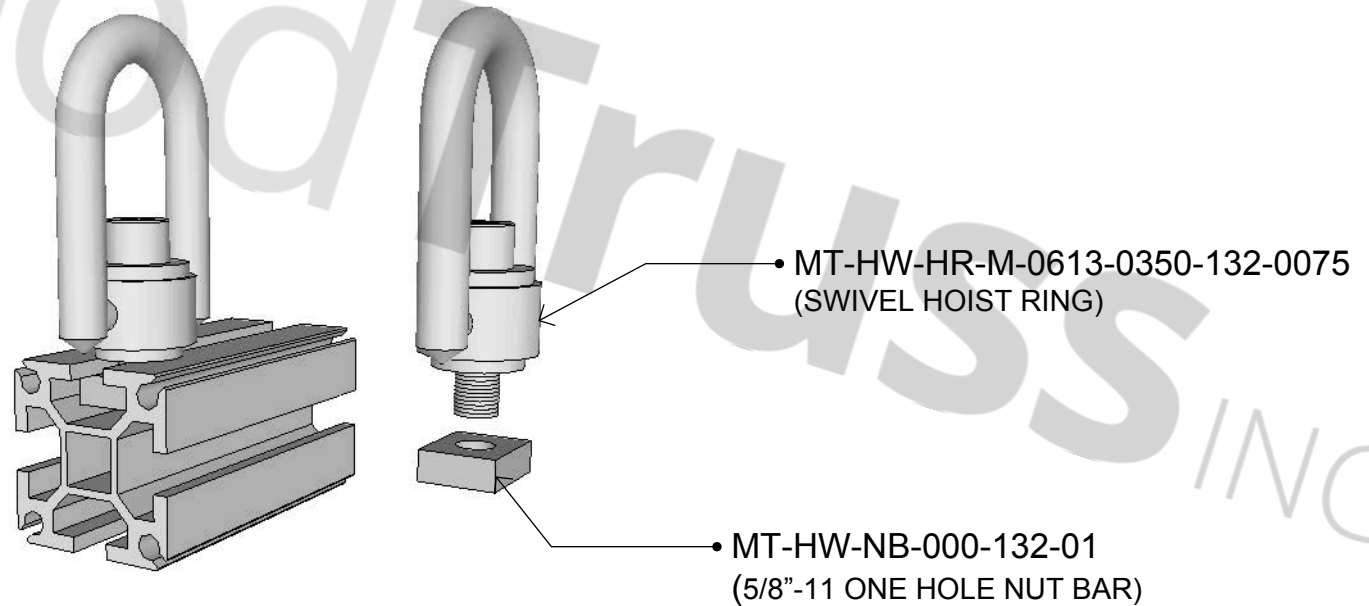
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

**\*NOTE:**

WHEN USING A SWIVEL HOIST RING ON 3" EXTRUSION  
INSERT ONE, ONE-HOLE 5/8"-11 NUT BAR INTO THE  
EXTRUSION TRACK. CONNECT THE SWIVEL HOIST RING TO  
THE NUT BAR.

## HARDWARE PER CONNECTION

- [1] MT-PL-S-G-03-09-180 (3" x 9" GUSSET SPLICE PLATE)
- [1] MT-HW-HR-M-0613-0350-132-0075 (SWIVEL HOIST RING)
- [1] MT-HW-NB-000-132-01 (ONE HOLE NUT BAR)



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INC<sup>TM</sup>

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# 3" TRUSS - END TO END

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

**\*NOTE:**

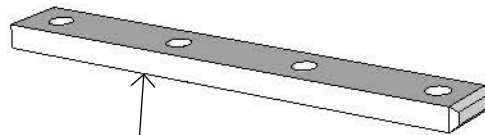
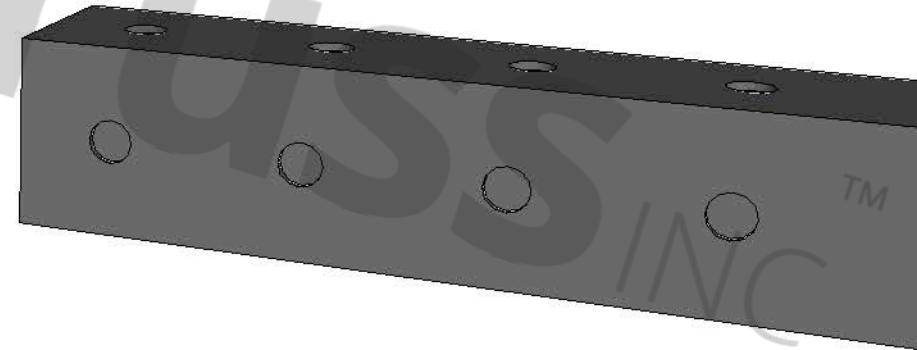
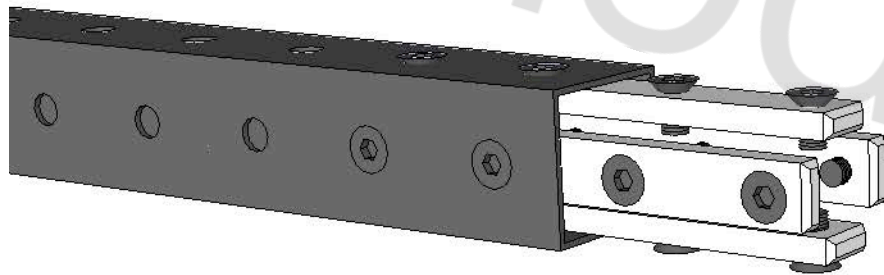
WHEN MAKING A 3" TRUSS CONNECTION END TO END, INSERT FOUR, FOUR-HOLE 1/2"-13 NUT BARS INTO THE TRUSS WITH TWO HOLES OF ENGAGEMENT PER END FOR EACH NUT BAR.

CONNECT WITH 1/2"-13 X 1.5" FLAT HEAD SCREWS.

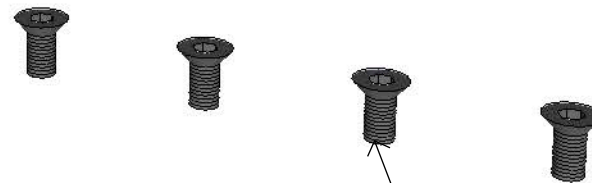
1/2"-13 FLAT HEADS CANNOT BE ANY LONGER THAN 1.5" IN LENGTH. SHORTER FLAT HEADS MAY USED NOT ANY SHORTER THAN 1" IN LENGTH

## HARDWARE PER CONNECTION

- [16] MT-HW-BT-FLT-0150-128 (1/2"-13 x 1.5" FLAT HEAD)
- [4] MT-HW-SB-000-128-04 (1/2"-13 FOUR HOLE SPLICE BAR)



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



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



# 3" TRUSS - GUSSET PLATE CORNER

\* ALL HARDWARE TO BE GRADE 8.

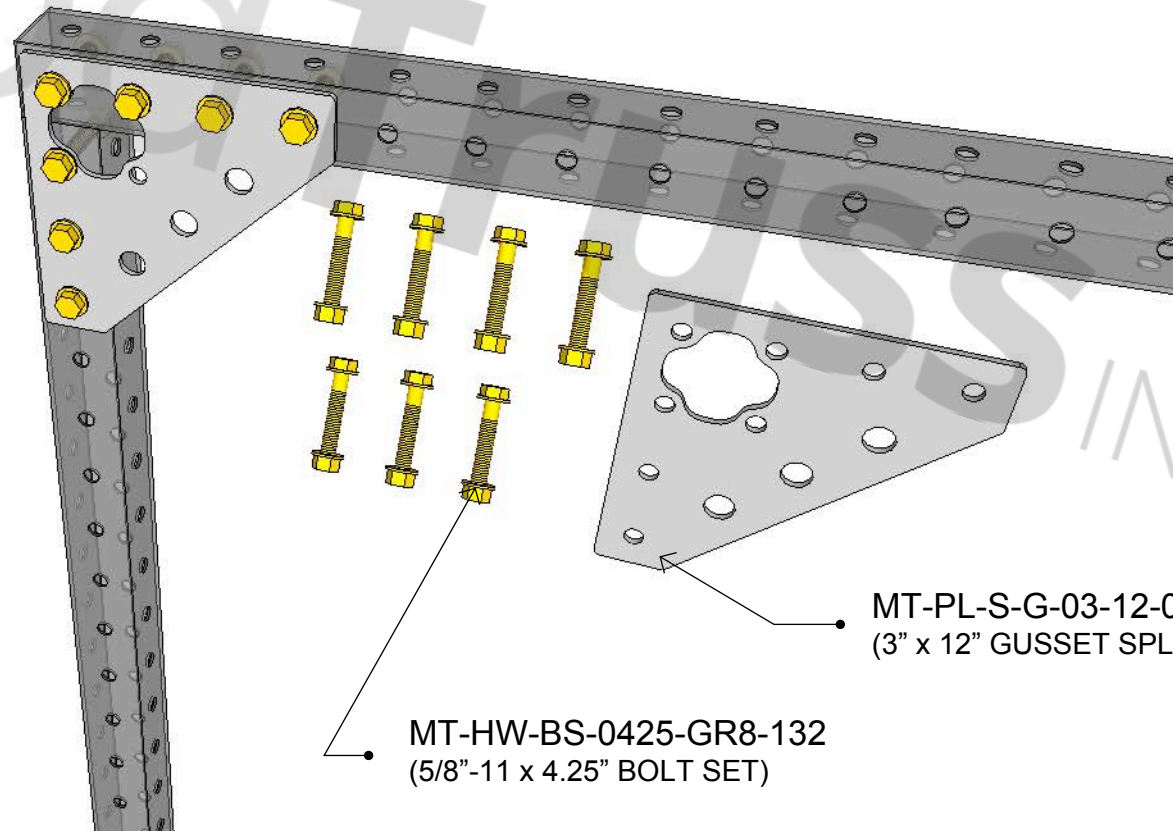
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

**\*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.

## HARDWARE PER CONNECTION

- [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

\* ALL HARDWARE TO BE GRADE 8.

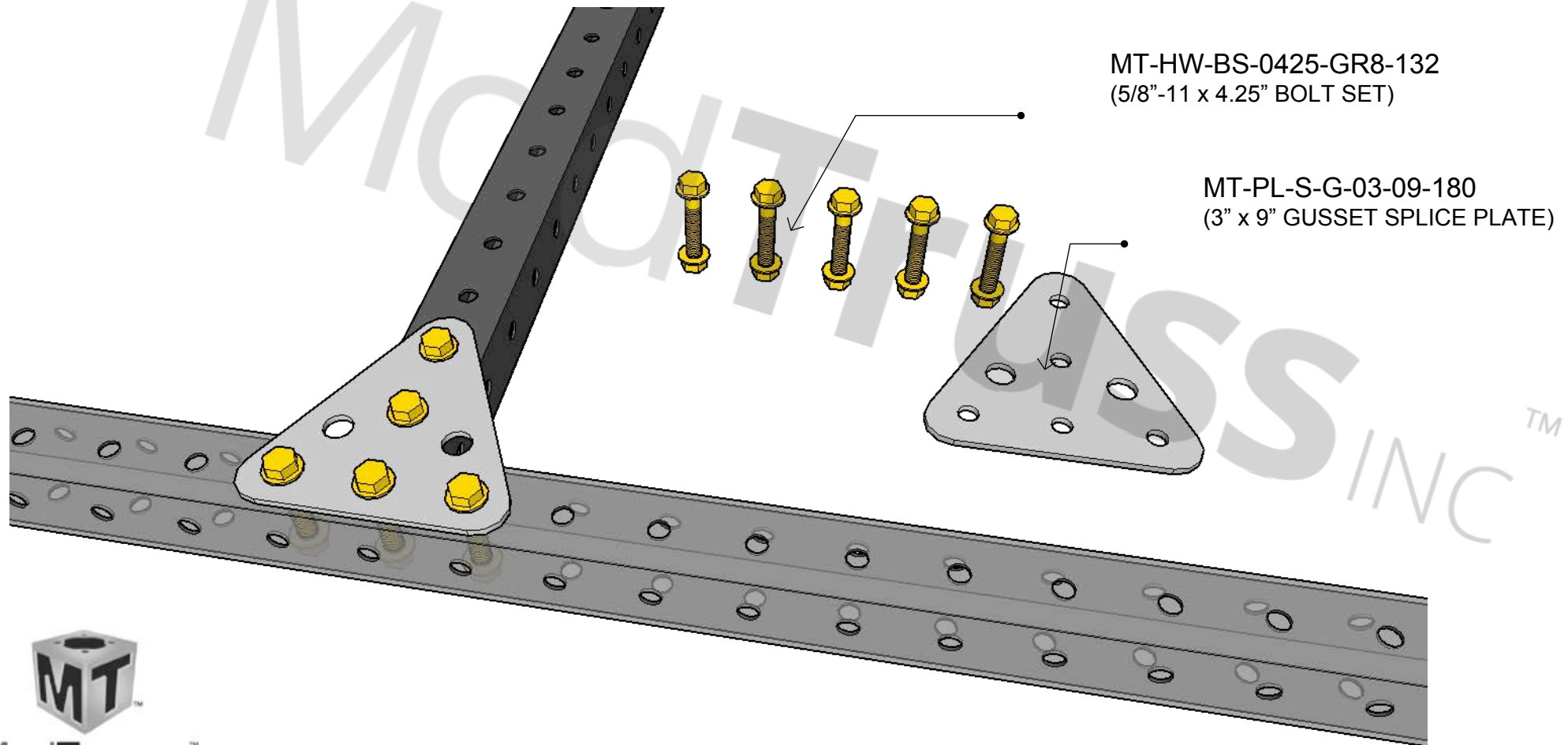
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

**\*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.

## HARDWARE PER CONNECTION

- [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)



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# 3" TRUSS - SPLICE PLATE TEE

\* ALL HARDWARE TO BE GRADE 8.

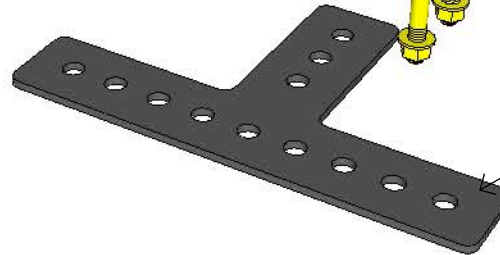
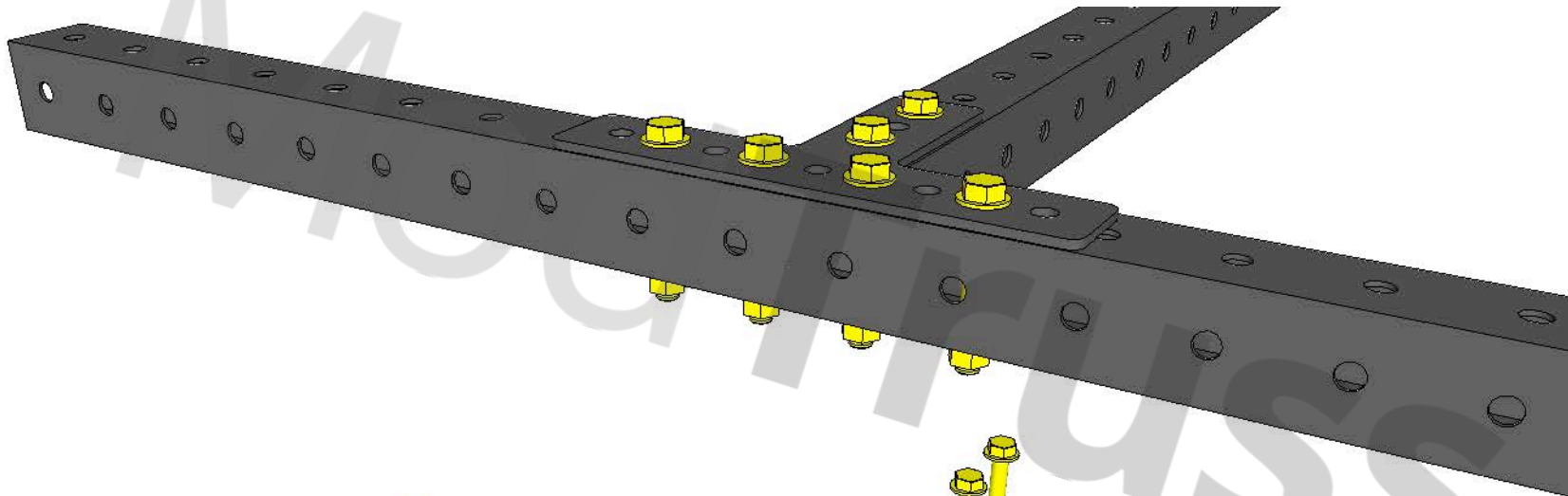
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

**\*NOTE:**

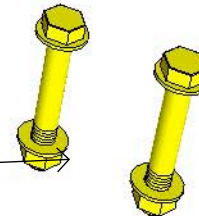
WHEN MAKING A 3" TRUSS CONNECTION WITH SPLICE PLATE, THROUGH BOLT THE PLATE AND 3" TRUSS WITH 4.25" BOLT SETS. 4.5" BOLT SETS CAN ALSO BE USED BUT WILL LEAVE MORE BOLT TAIL EXTENDING OUTWARD.

**HARDWARE PER CONNECTION**

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



MT-PL-S-03-15-TEE  
(3" x 15" TEE SPLICE PLATE)



MT-HW-BS-0425-GR8-132  
(5/8"-11 x 4.25" BOLT SET)





# 3" TRUSS - EYE BOLT

\* ALL HARDWARE TO BE GRADE 8.

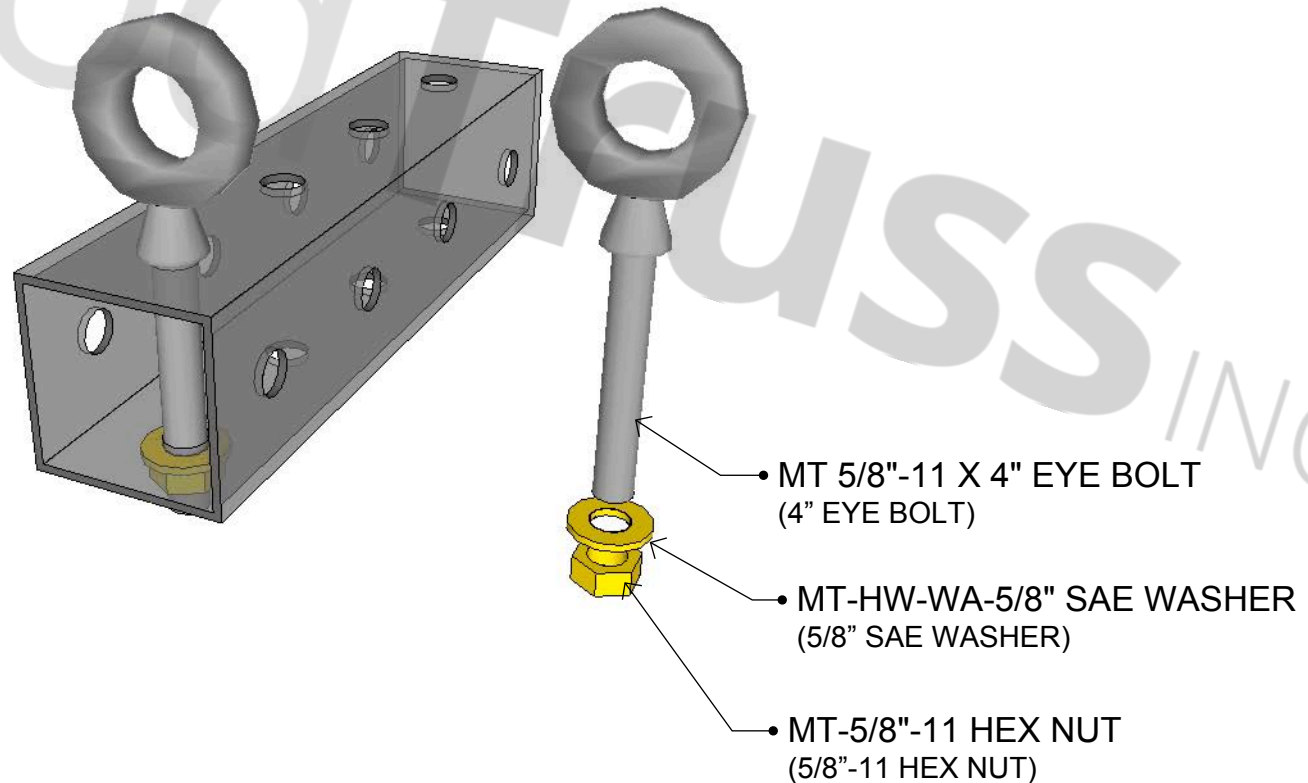
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

**\*NOTE:**

WHEN MOUNTING AN EYE BOLT TO 3" TRUSS, BOLT THE 4" EYE BOLT THROUGH THE TRUSS IN DESIRED RIGGING LOCATION USING A 5/8" SAE WASHER AND 5/8"-11 HEX NUT.

## HARDWARE PER CONNECTION

- [1] MT 5/8"-11 X 4" EYE BOLT (4" EYE BOLT)
- [1] MT-HW-WA-5/8" SAE WASHER (5/8" SAE WASHER)
- [1] MT-5/8"-11 HEX NUT (5/8"-11 HEX NUT)



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# 3" TRUSS - LAMINATED BEAM

\* ALL HARDWARE TO BE GRADE 8.

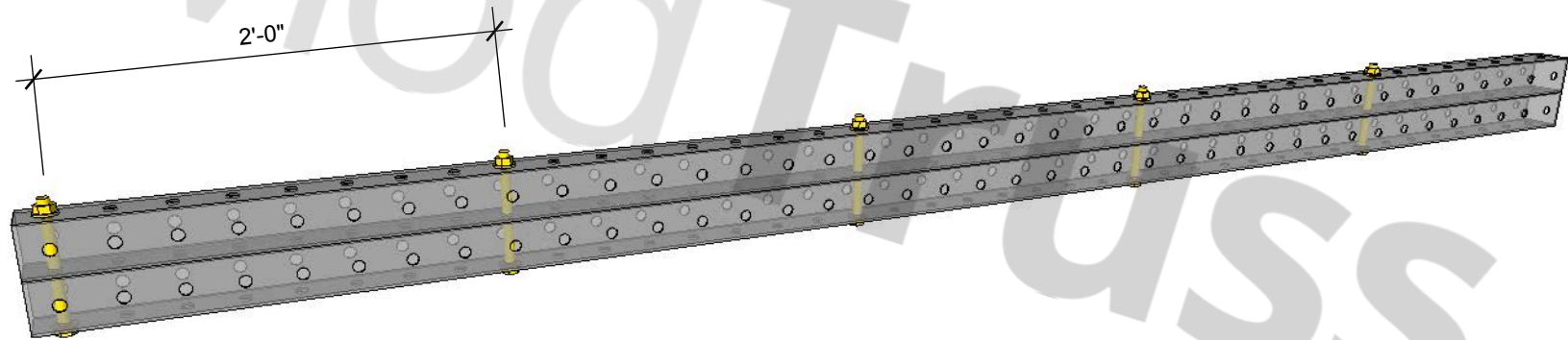
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

**\*NOTE:**

WHEN LAMINATING 3" TRUSS, THROUGH BOLT THE LAMINATED 3" TRUSS WITH 5/8"-11 x 7" BOLT SETS. EACH BOLT SET MUST BE 2' OR 24" CENTER TO CENTER FOR THE LENGTH OF LAMINATION.

## HARDWARE PER CONNECTION

[XXX] MT-HW-BS-0425-GR8-132 (5/8"-11 x 4.25" BOLT SET)



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• MT-HW-BS-0700-GR8-132  
(5/8"-11 x 7" BOLT SET)

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# 6" EXTRUSION - END TO END COUNTERSUNK

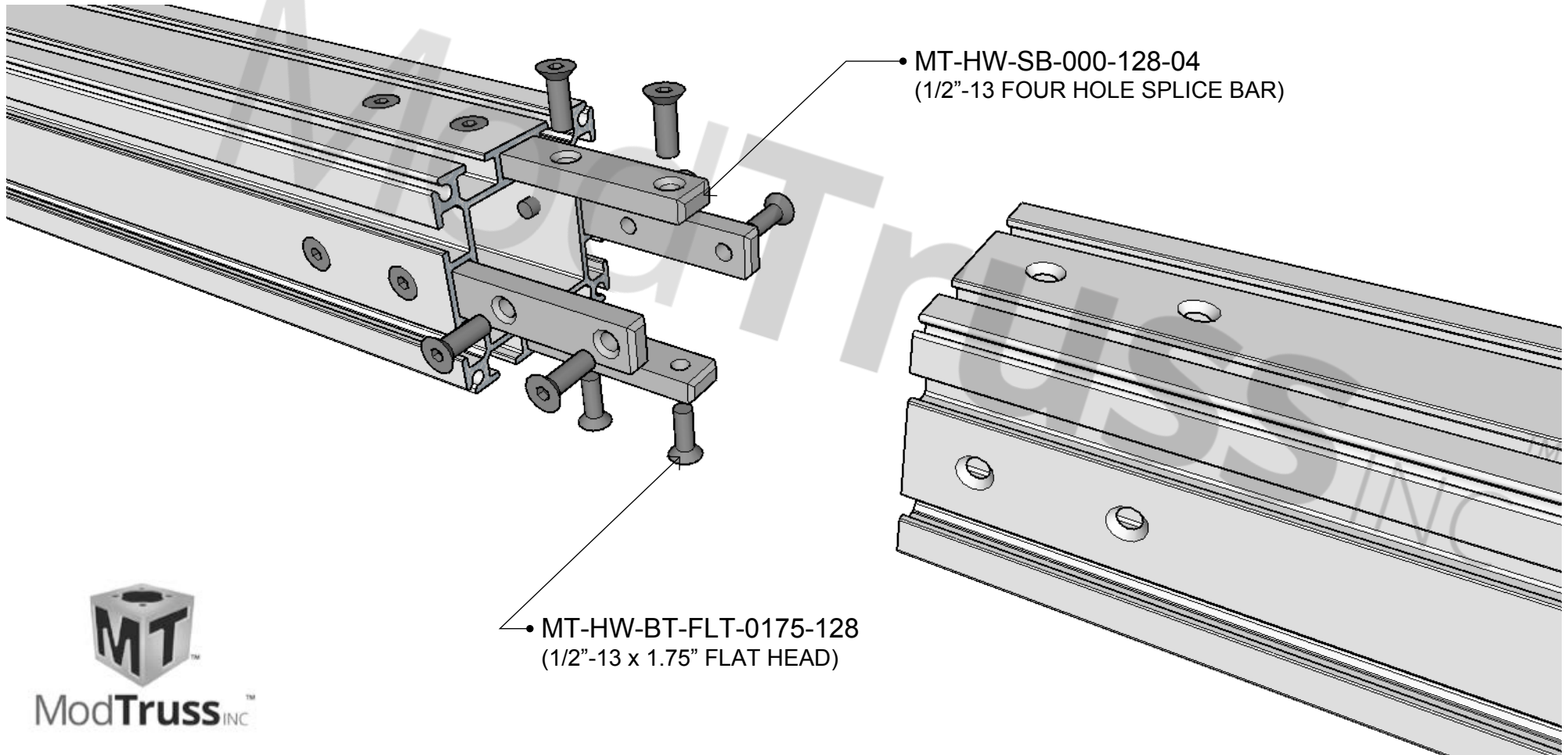
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

**\*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.

## HARDWARE PER CONNECTION

- [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)



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# 6" EXTRUSION - END TO END HEX BOLT

\* ALL HARDWARE TO BE GRADE 8.

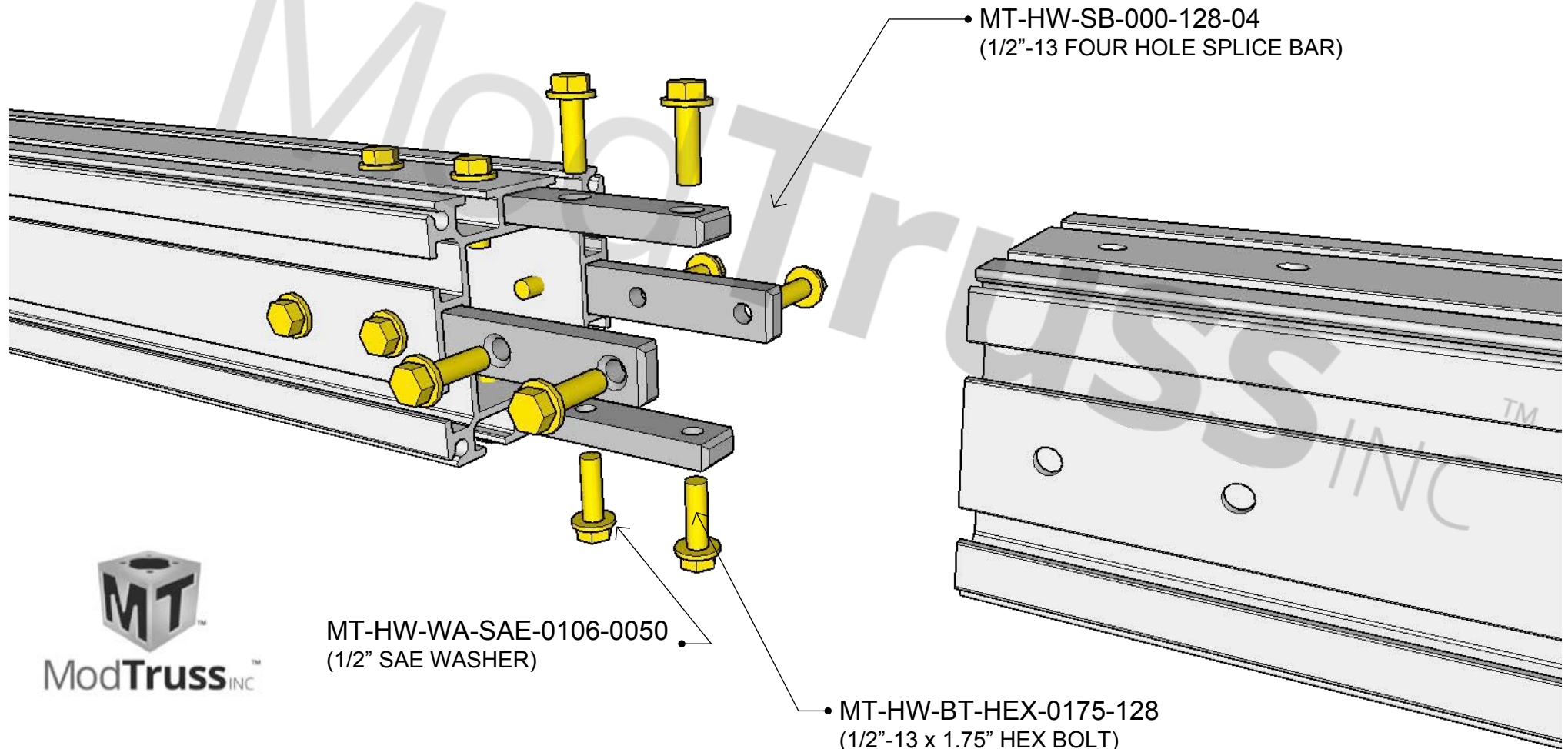
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

**\*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.

## HARDWARE PER CONNECTION

- [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

\* ALL HARDWARE TO BE GRADE 8.

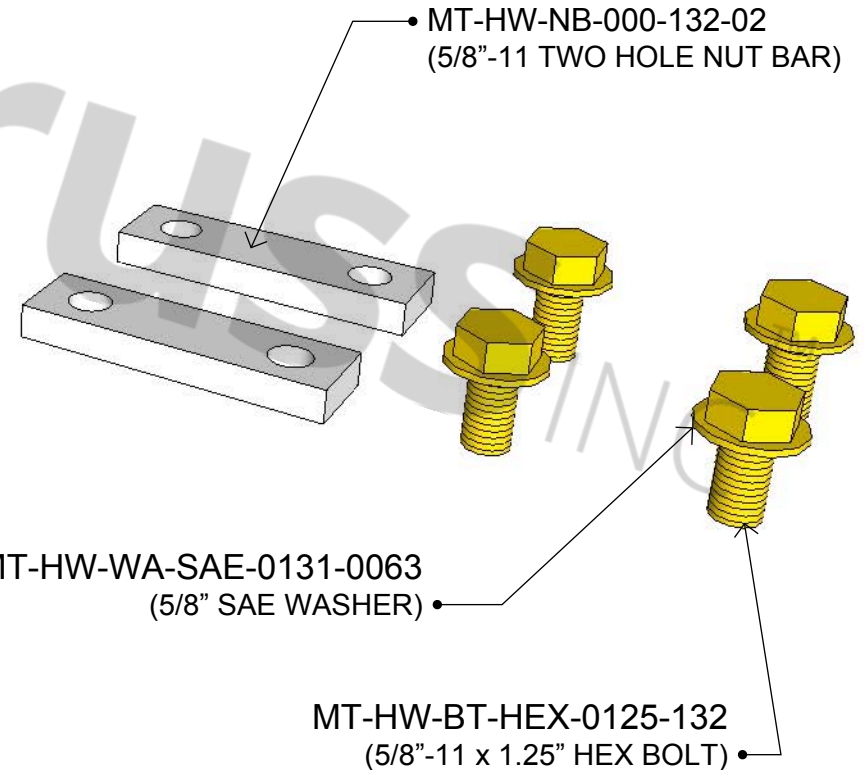
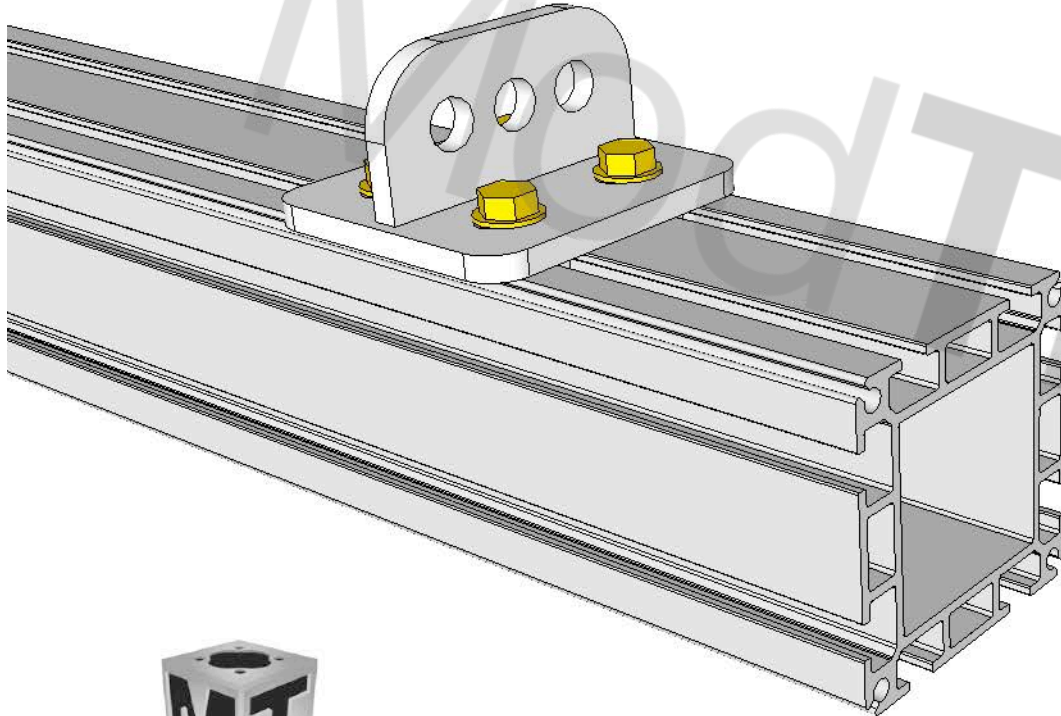
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

**\*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 LENGTH 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.

## HARDWARE PER CONNECTION

- [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)



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# 6" EXTRUSION - GUSSET PLATE CORNER

\* ALL HARDWARE TO BE GRADE 8.

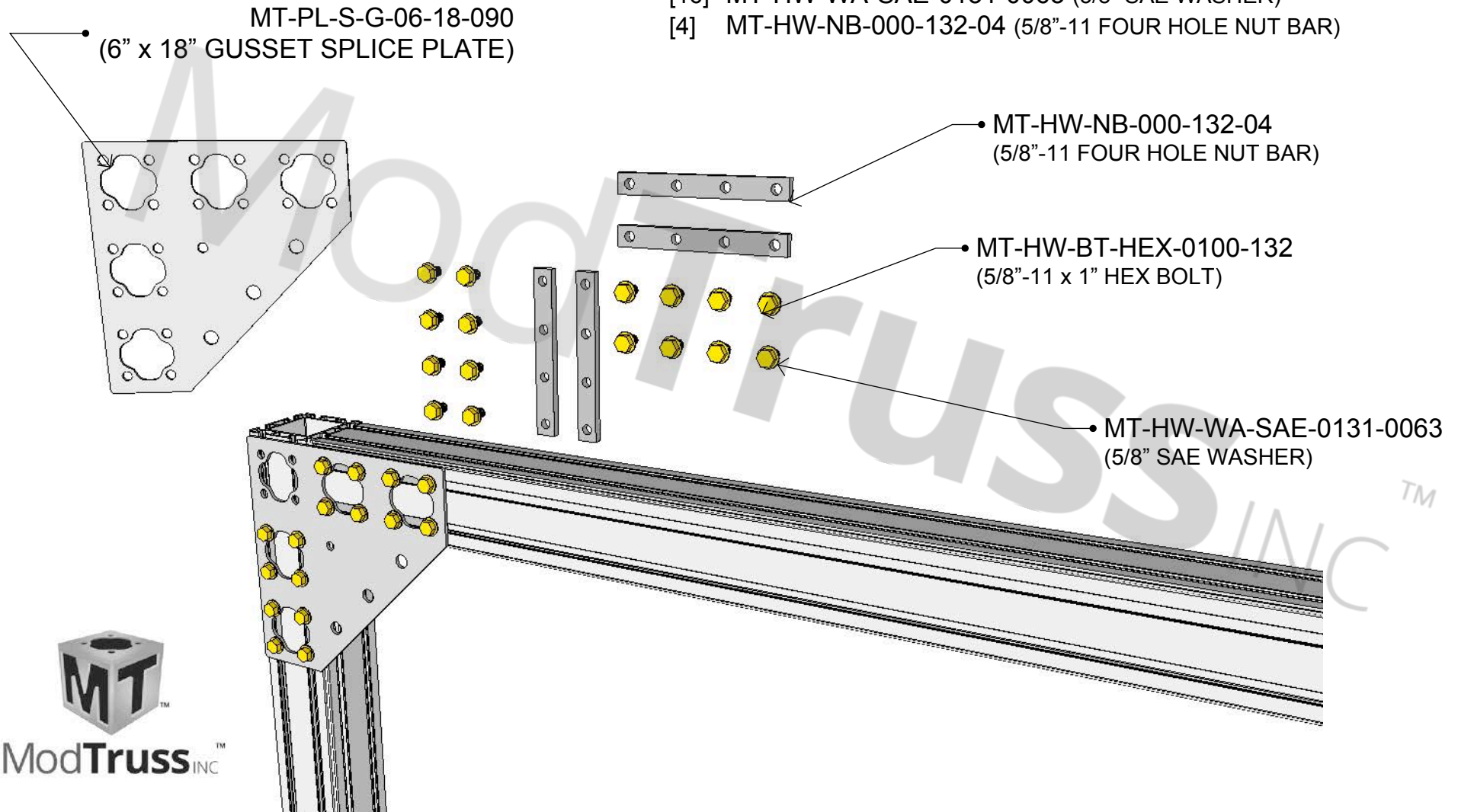
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*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.

## HARDWARE PER CONNECTION

- [1] 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

\* ALL HARDWARE TO BE GRADE 8.

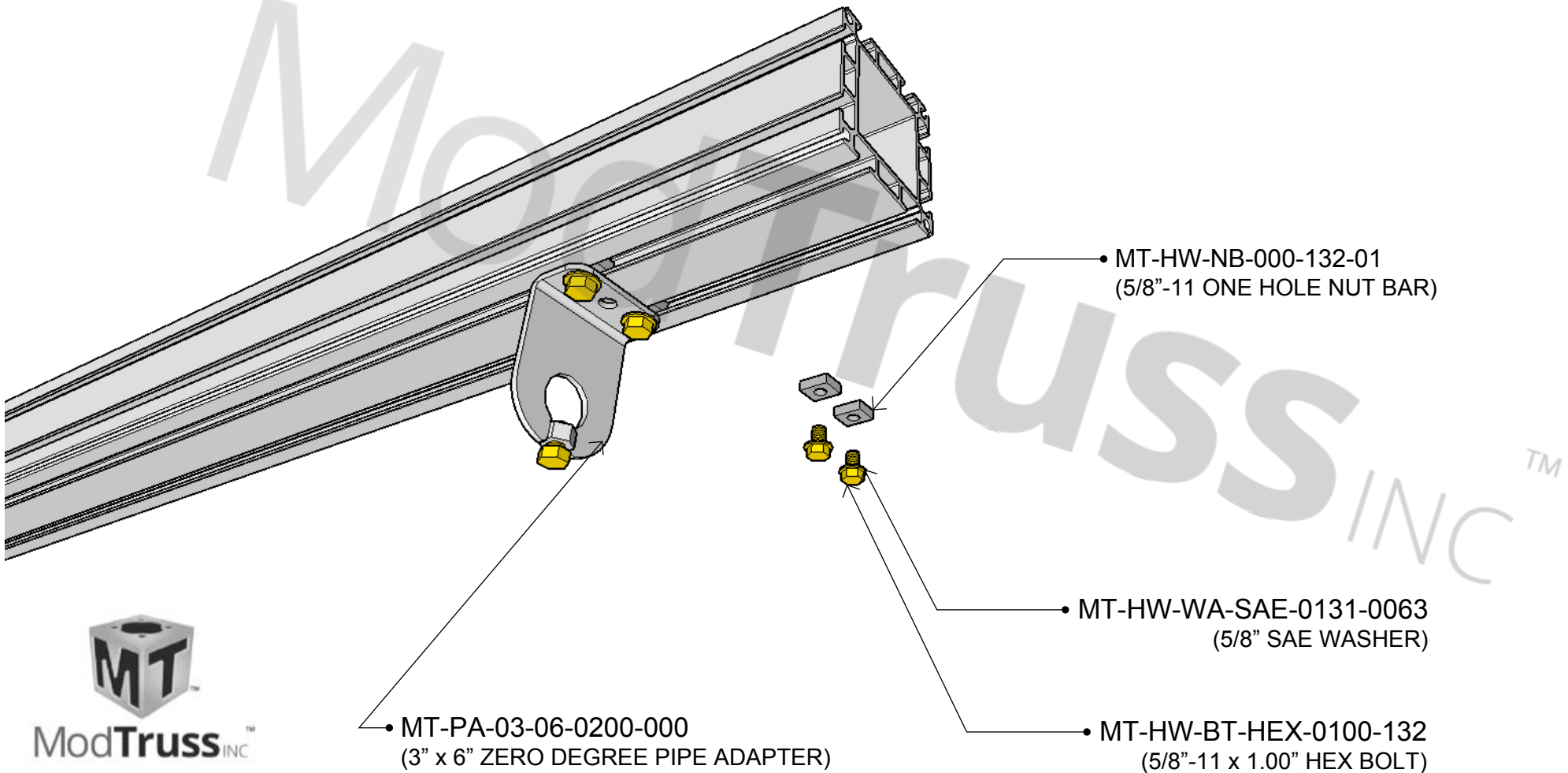
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

**\*NOTE:**

WHEN CONNECTING A 3" x 6" ZERO DEGREE PIPE ADAPTER TO EXTRUSION, PLACE TWO 5/8"-11 ONE HOLE NUT BARS IN THE EXTRUSION TRACK. ORIENTATE THE PIPE ADAPTER AS SHOWN WITH THE PIPE ADAPTER PERPENDICULAR TO THE LENGTH OF THE EXTRUSION AND TRACK. BOLT THROUGH THE PIPE ADAPTER INTO THE NUT BARS USING TWO 5/8"-11 x 1" HEX BOLTS AND WASHERS.

## HARDWARE PER CONNECTION

- [1] MT-PA-03-06-0200-000 (3" x 6" ZERO DEGREE PIPE ADAPTER)
- [2] MT-HW-BT-HEX-0100-132 (5/8"-11 x 1" HEX BOLT)
- [2] MT-HW-WA-SAE-0131-0063 (5/8" SAE WASHER)
- [2] MT-HW-NB-000-132-01 (5/8"-11 ONE HOLE NUT BAR)





# 6" EXTRUSION MITERED CORNER

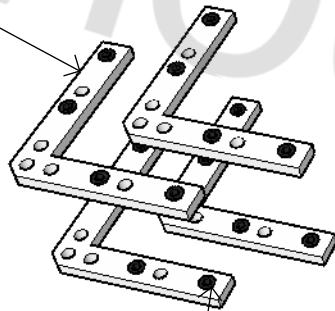
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

## HARDWARE PER CONNECTION

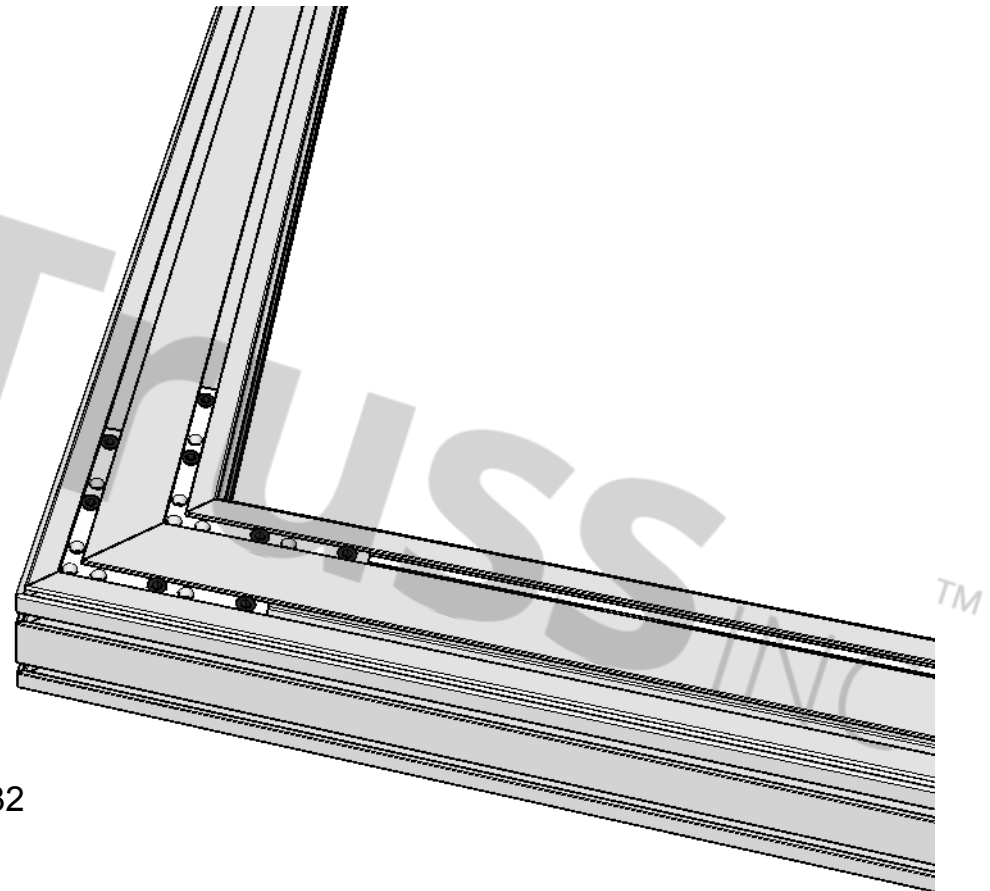
- [4] MT-HW-NB-0738-090-132-09 (5/8"-11 NINE HOLE 90 DEGREE NUT BAR)
- [16] MT-HW-BT-SHC-0075-132 (5/8"-11 x .75" SET SCREW)

\*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.

MT-HW-NB-0738-090-132-09  
(5/8"-11 NINE HOLE 90 DEGREE NUT BAR)



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



ModTruss<sup>INC</sup>

# 6" EXTRUSION - 6" X 6" 180 DEGREE HINGE

\* ALL HARDWARE TO BE GRADE 8.

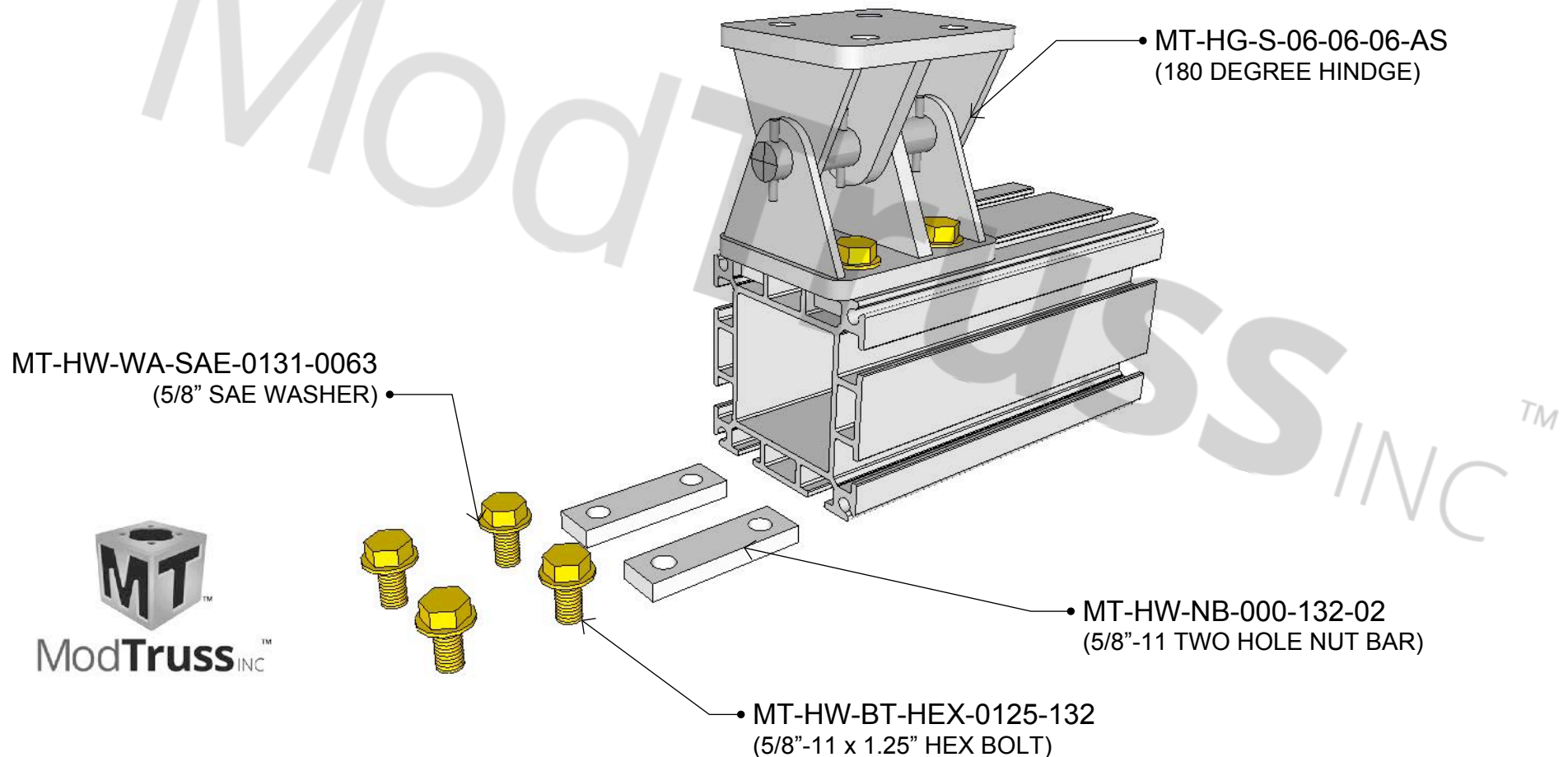
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

**\*NOTE:**

WHEN CONNECTING A 180 DEGREE HINGE TO 6" EXTRUSION, PLACE TWO 5/8"-11 TWO HOLE NUT BARS IN THE EXTRUSION TRACK. ORIENTATE THE 180 HINGE AS SHOWN WITH THE MOUNTING SLOTS PERPENDICULAR TO THE LENGHT OF THE EXTRUSION AND TRACK. BOLT THROUGH THE 180 DEGREE HINGE INTO THE NUT BARS USING FOUR 5/8"-11 x 1.25" HEX BOLTS AND WASHERS.

## HARDWARE PER CONNECTION

- [1] MT-HG-S-06-06-06-AS (BOLT 180 DEGREE HINGE)
- [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 BRACE MOUNT

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*NOTE:

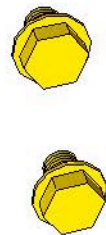
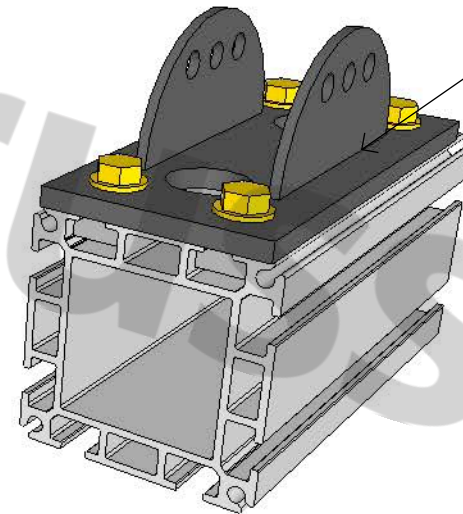
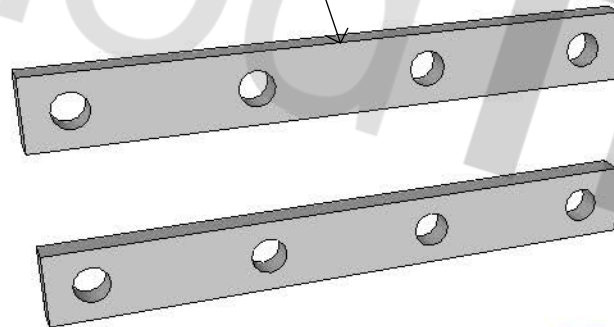
WHEN CONNECTING A GUSSET BRACE TO 6" EXTRUSION, PLACE TWO 5/8"-11 FOUR HOLE NUT BARS IN THE EXTRUSION TRACK. BOLT THROUGH THE GUSSET BRACE MOUNT INTO THE NUT BARS USING FOUR 5/8"-11 x 1.25" HEX BOLTS AND WASHERS.

## HARDWARE PER CONNECTION

- [1] MT-22-3590-MR-RM-06-12-UN-03(ASPIRE) (GUSSET BRACE 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-000-132-04 (5/8"-11 FOUR HOLE NUT BAR)

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

MT-RG-RM-GB-06-12-UN-03  
(GUSSET BRACE MOUNT)



• MT-HW-BT-HEX-0125-132  
(5/8"-11 x 1.25" HEX BOLT)

• MT-HW-WA-SAE-0131-0063  
(5/8" SAE WASHER)



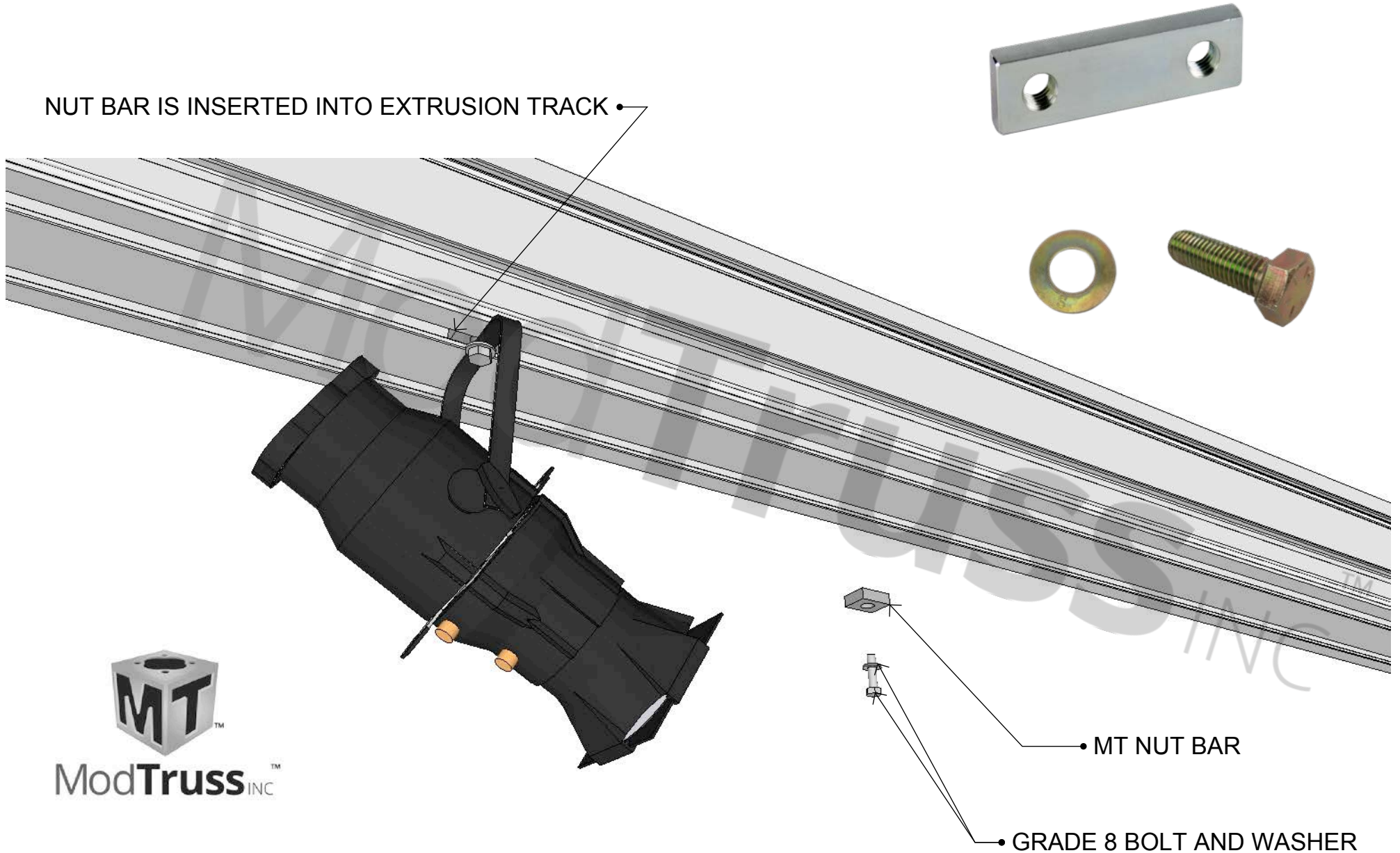
ModTruss<sup>TM</sup> INC

# ModCapable

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 90-150 ft-lbs

NUT BAR IS INSERTED INTO EXTRUSION TRACK



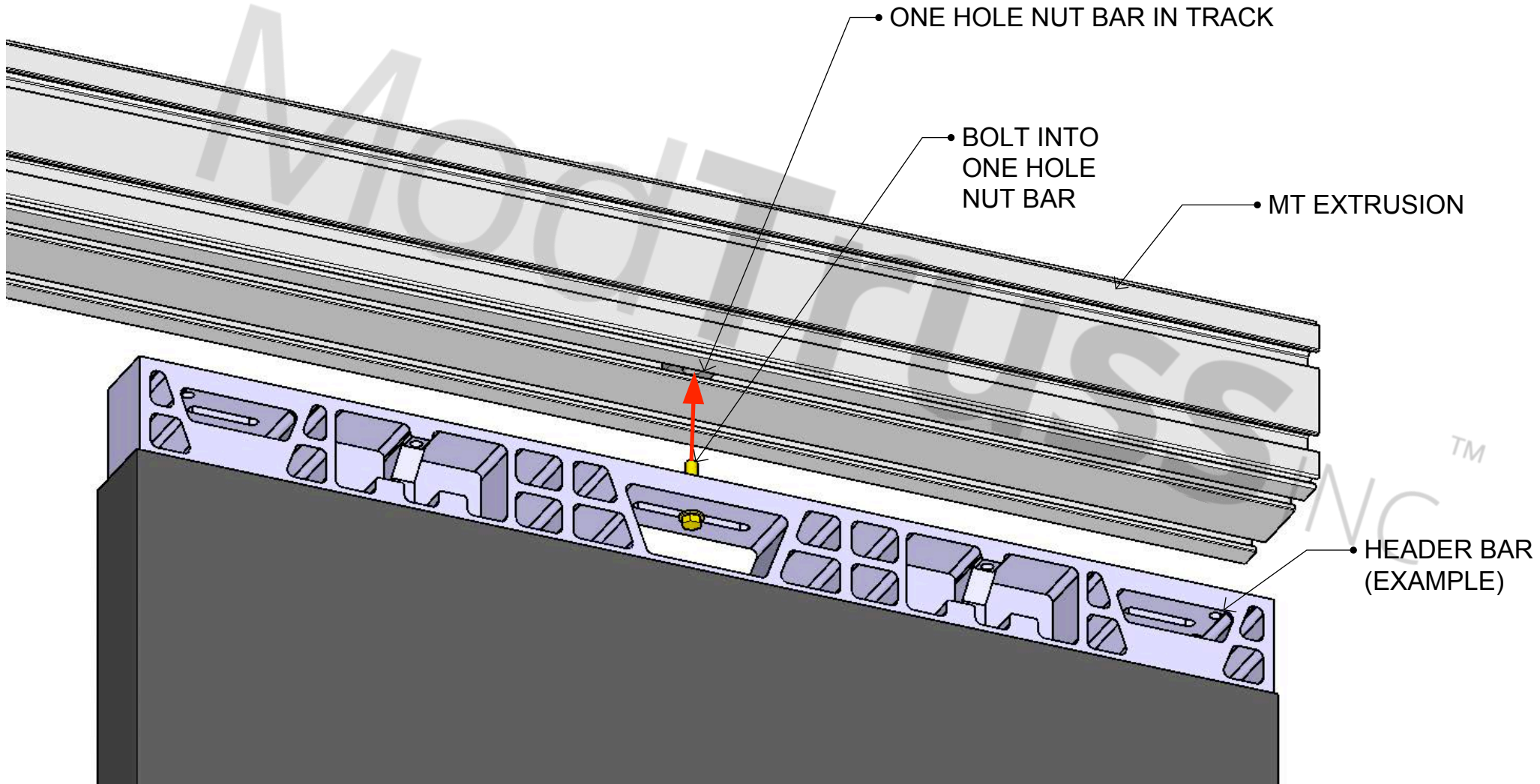
ModTruss<sup>INC</sup>



PREPARED BY:  
**ModTruss** INC

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 90-150 ft-lbs



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# 6" TRUSS - END TO END CONNECTION

\* ALL HARDWARE TO BE GRADE 8.

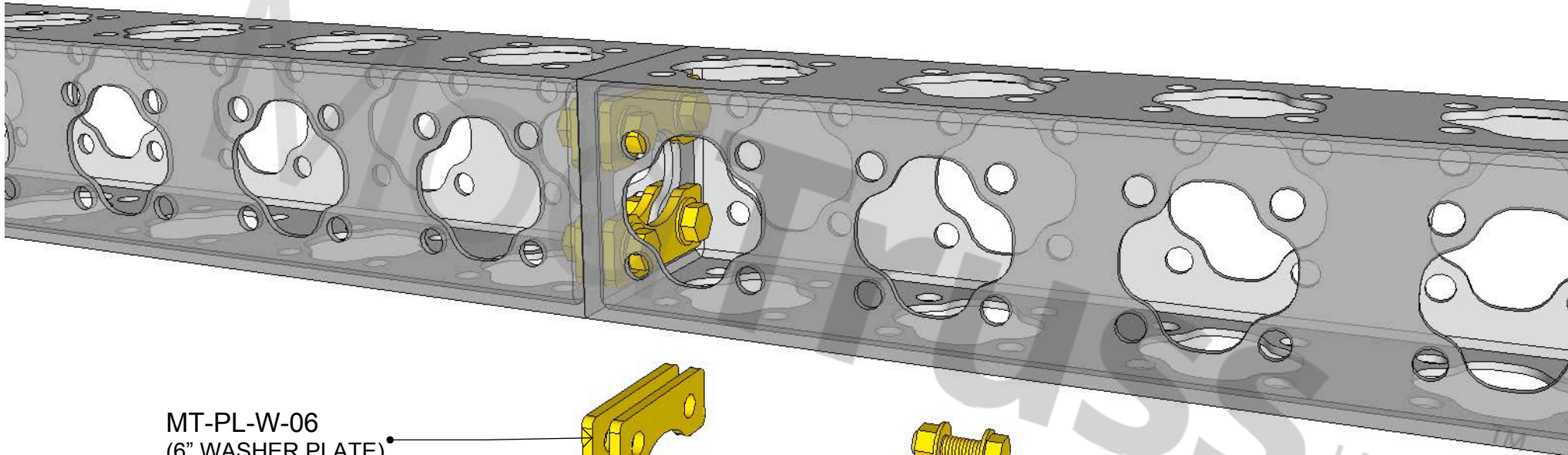
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*NOTE:

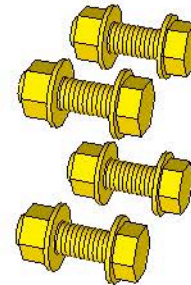
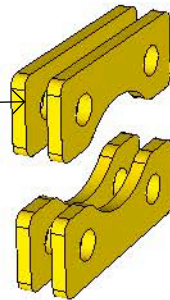
WHEN MAKING A 6" TRUSS END TO END CONNECTION, PLACE TWO WASHER PLATES INSIDE EACH MEMBER (FOUR WASHER PLATES TOTAL PER CONNECTION) IN THE HORIZONTAL ORIENTATION WITH FOUR, 5/8"-11 x 2" BOLT SETS.

## HARDWARE PER CONNECTION

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



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



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



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# 6" TRUSS - TEE CONNECTION

\* ALL HARDWARE TO BE GRADE 8.

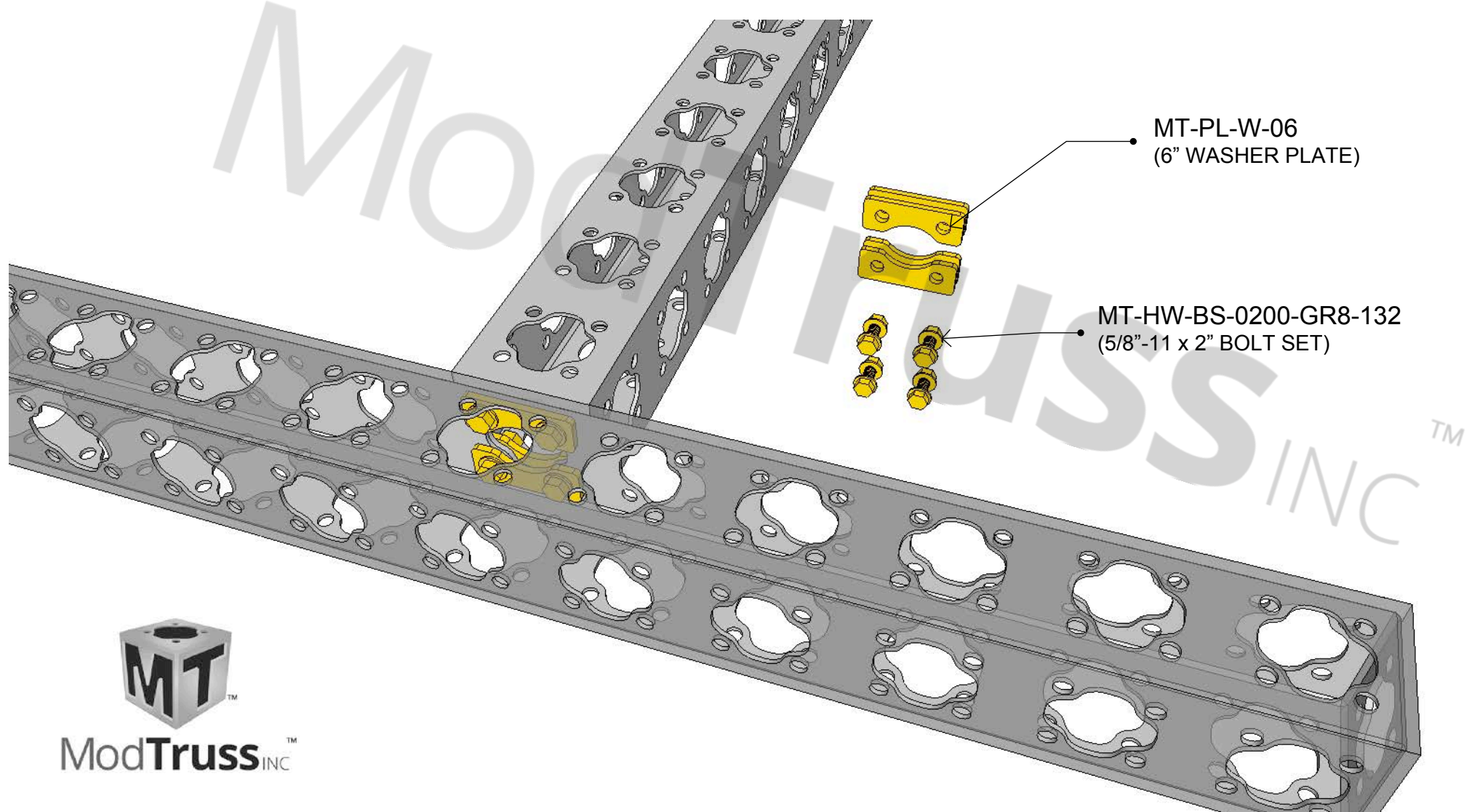
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*NOTE:

WHEN MAKING A 6" TRUSS TEE 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.

## HARDWARE PER CONNECTION

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



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# 6" TRUSS - 6"x12" SPLICE PLATE

\* ALL HARDWARE TO BE GRADE 8.

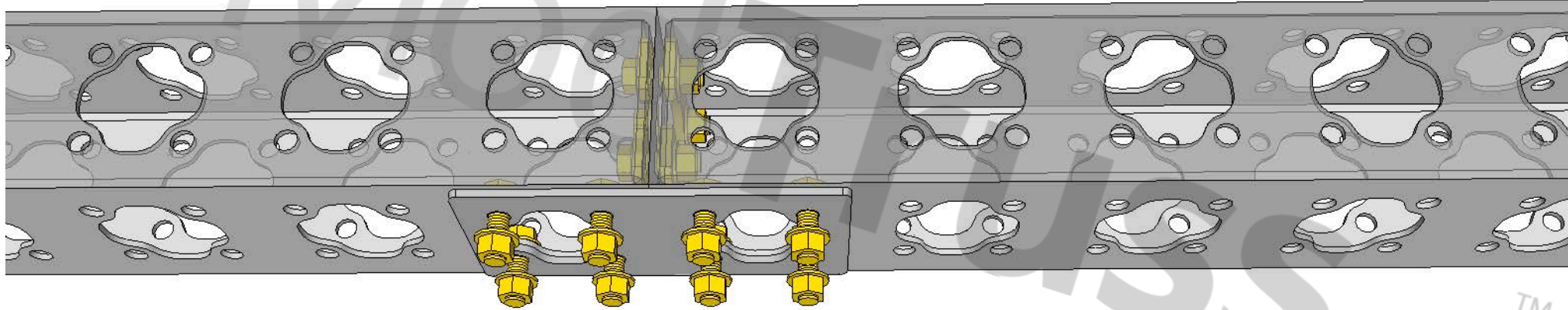
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*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. SPLICE PLATES SHOULD BE ORIENTATED TO BE IN TENSION TYPICALLY ON THE BOTTOM OF THE BEAM IF BEAM IS SUPPORTED ON BOTH ENDS.

## HARDWARE PER CONNECTION

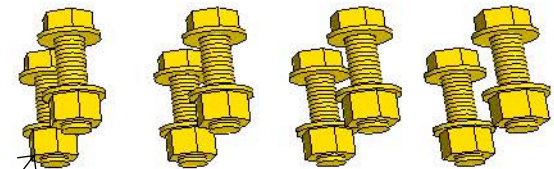
- [1] MT-PL-S-06-12-000 (6"x12" SPLICE PLATE)
- [8] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)



MT-PL-S-06-12-000  
(6"x12" SPLICE PLATE)



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

# 6" TRUSS - GUSSET PLATE CORNER

\* ALL HARDWARE TO BE GRADE 8.

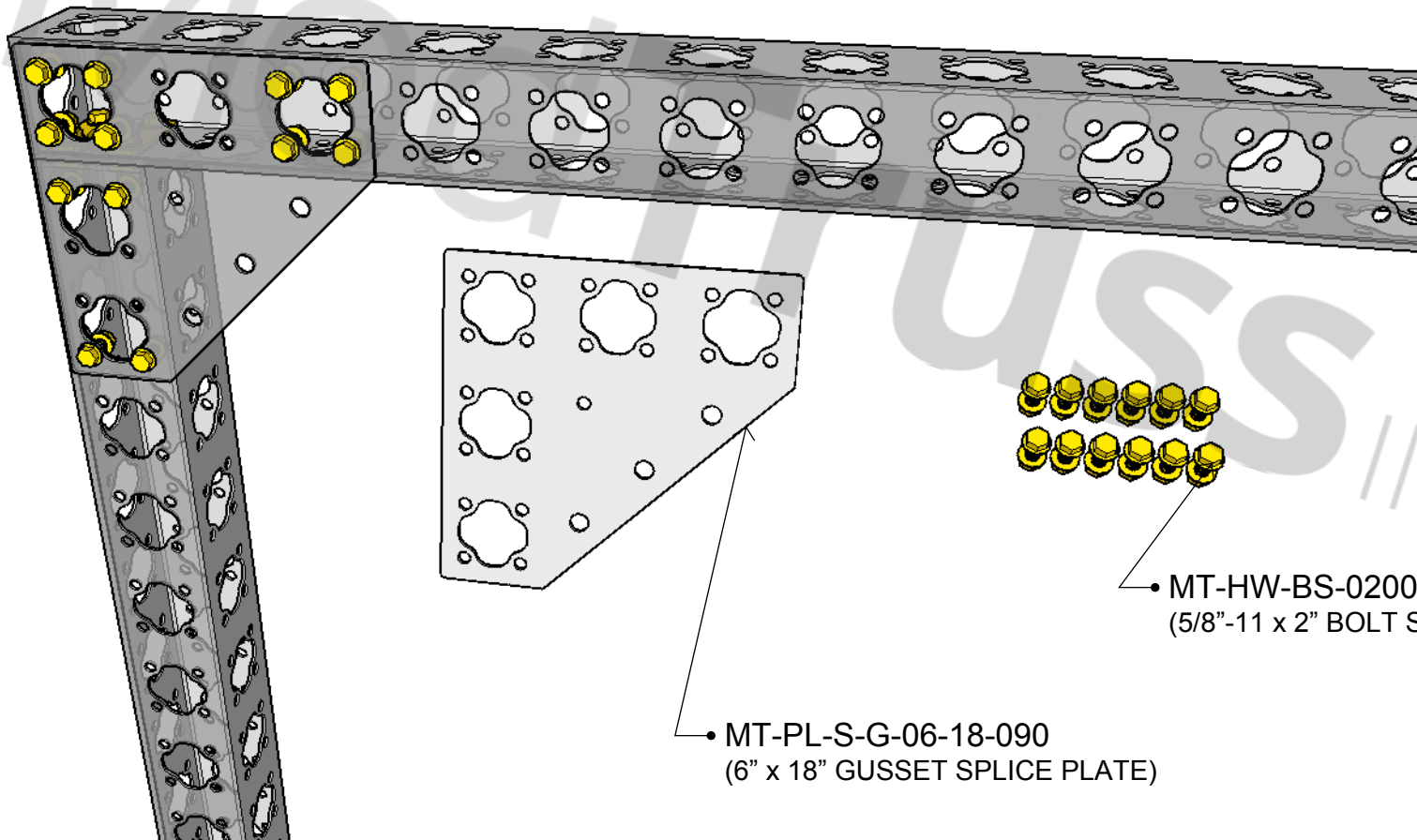
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*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.

## HARDWARE PER CONNECTION

- [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)



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# 6" TRUSS - EXTRUSION T SLOT PIPE

\* ALL HARDWARE TO BE GRADE 8.

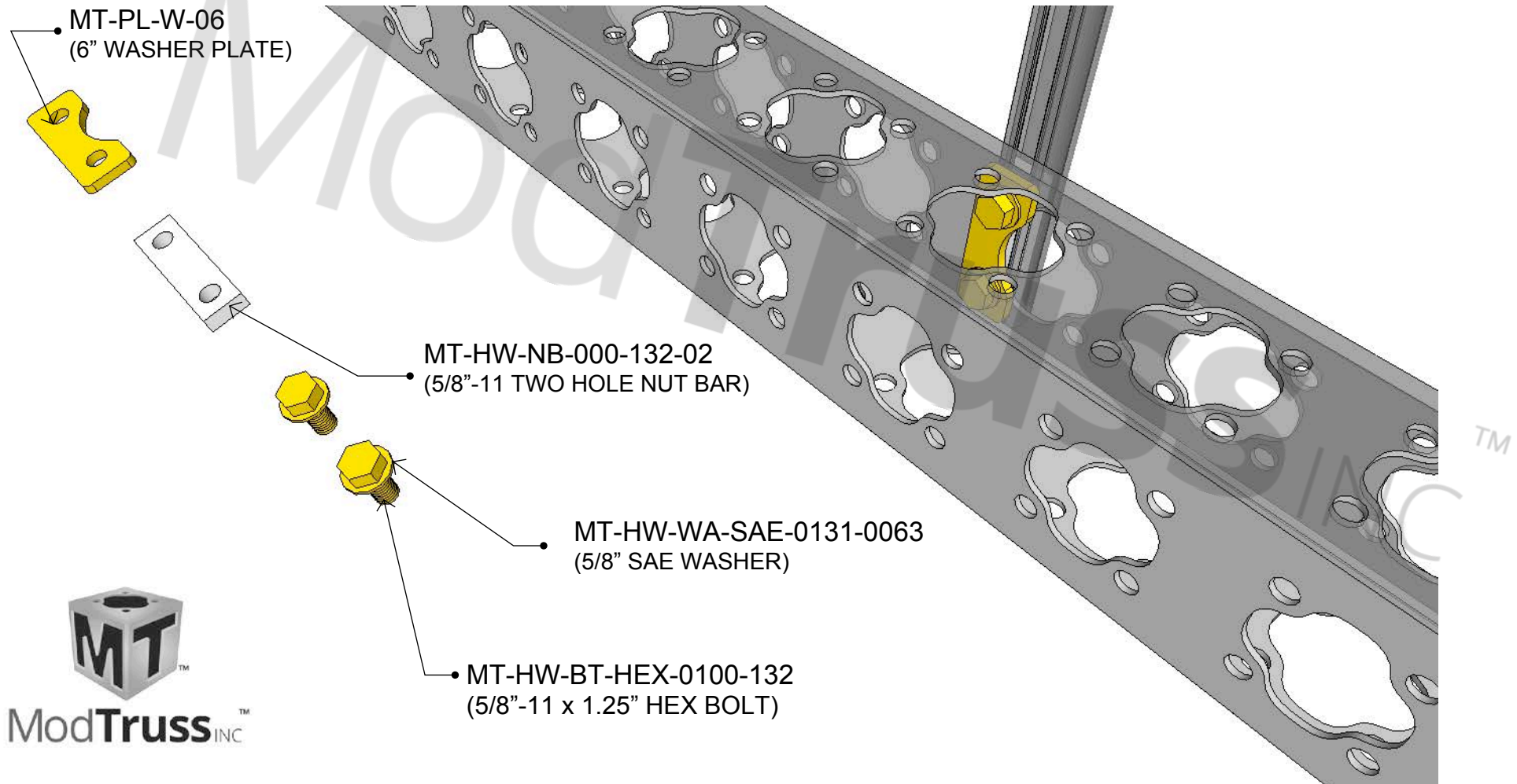
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*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.

## HARDWARE PER CONNECTION

- [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)



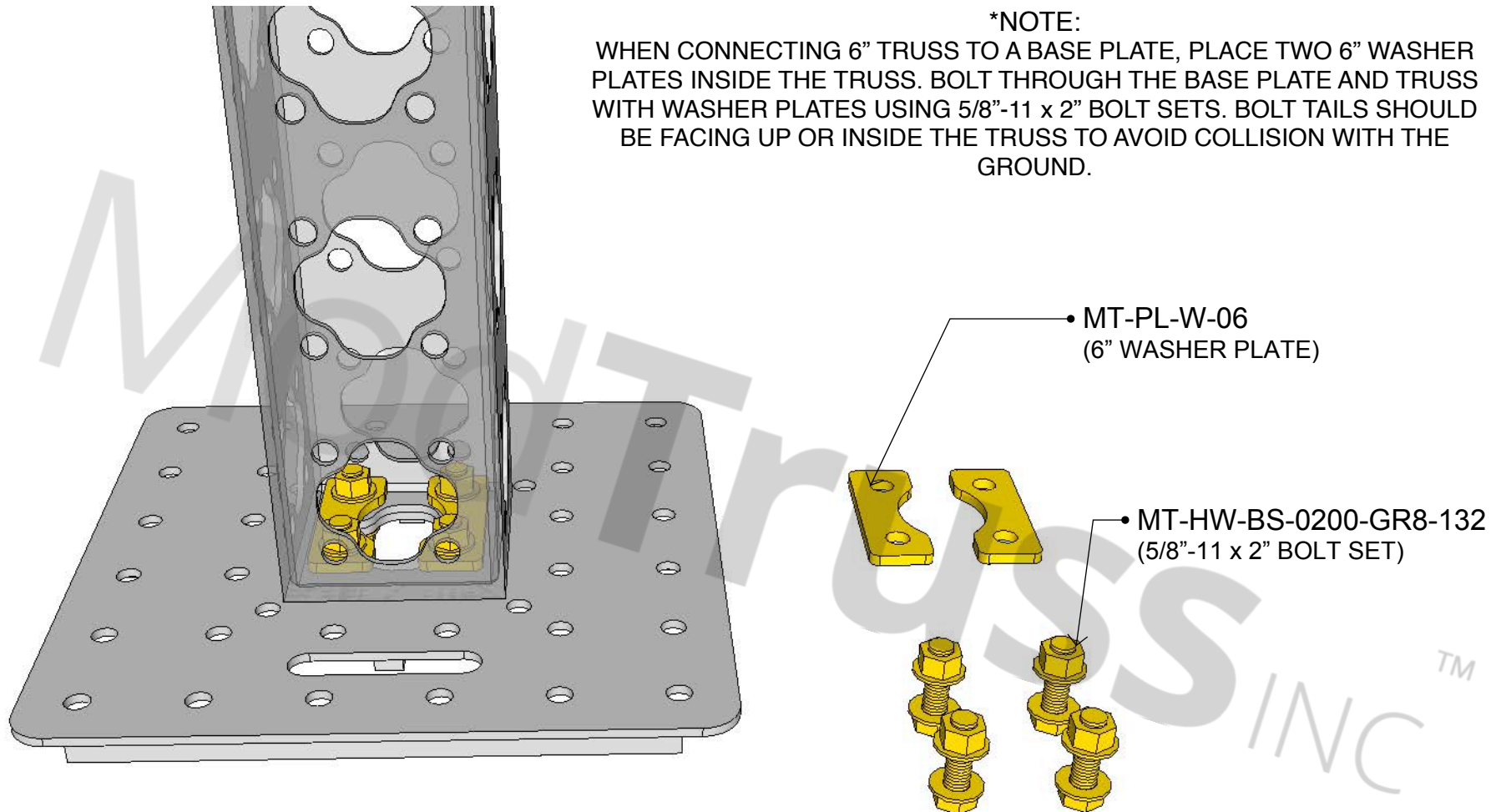
# 6" TRUSS - BASE PLATE

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*NOTE:

WHEN CONNECTING 6" TRUSS TO A BASE PLATE, PLACE TWO 6" 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.



## HARDWARE PER CONNECTION

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



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REV DATE: 07/22/2024

# 6" TRUSS - 180 HINGE ASSEMBLY

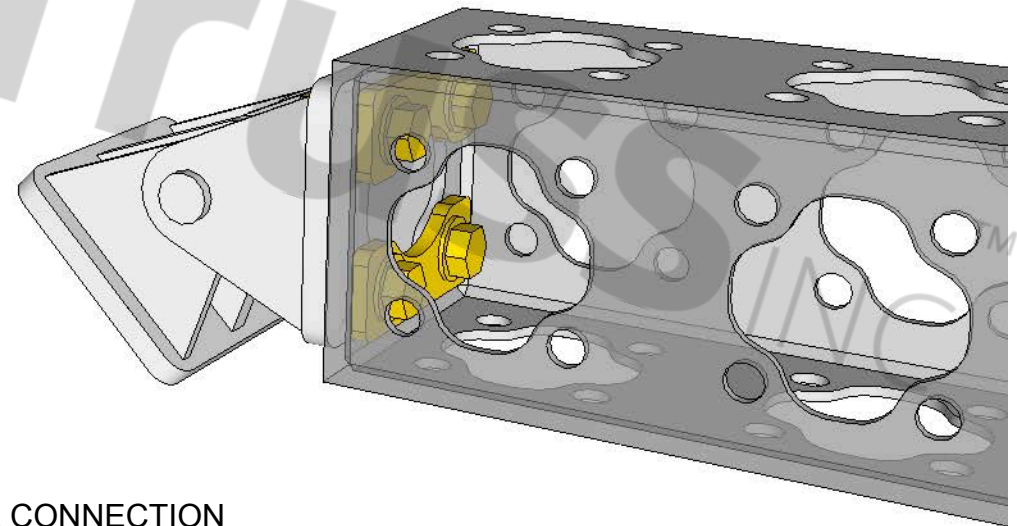
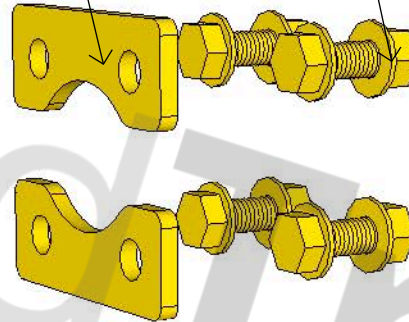
\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 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)

\*NOTE:  
WHEN CONNECTING 6" TRUSS TO A 180 HINGE  
ASSEMBLY, PLACE TWO 6" WASHER PLATES INSIDE  
THE TRUSS. BOLT THROUGH THE HINGE AND  
TRUSS WITH WASHER PLATES USING 5/8"-11 x 2"  
BOLT SETS.



## HARDWARE PER CONNECTION

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



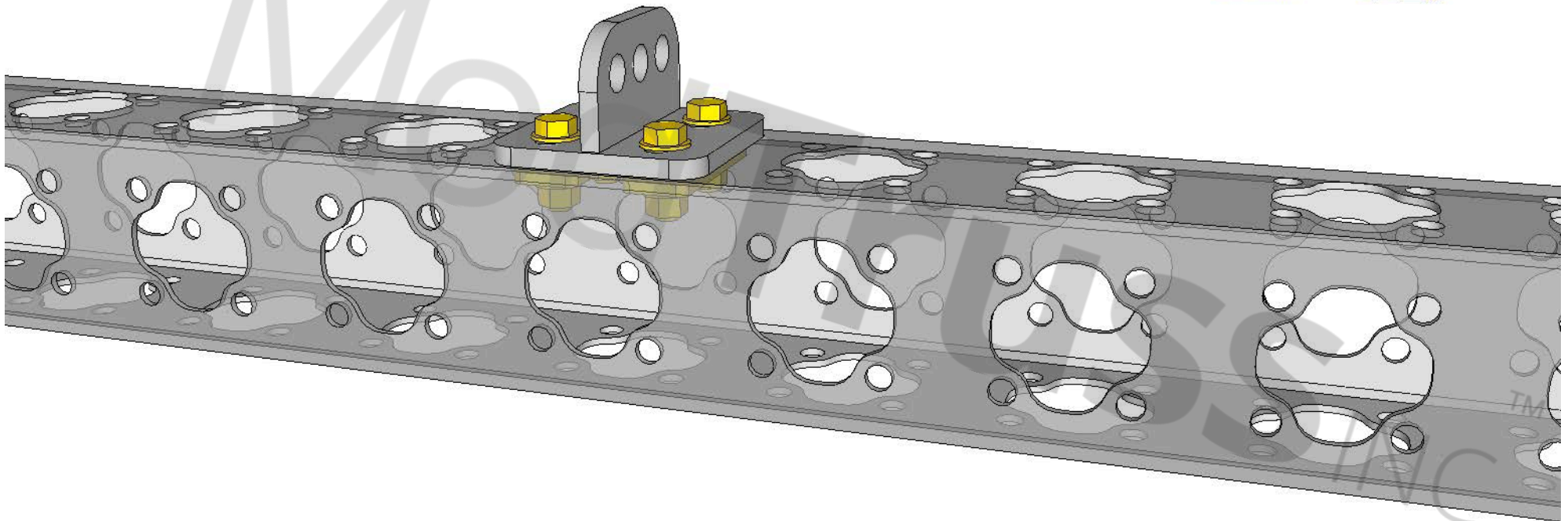
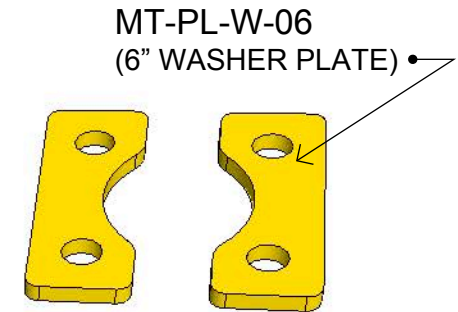
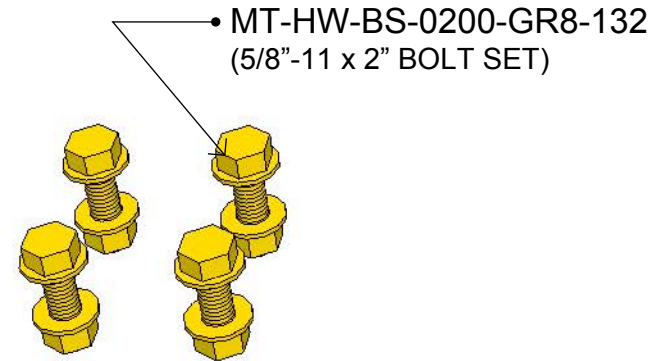
ModTruss<sup>TM</sup> INC

# 6" TRUSS - 6" TEE RIGGING MOUNT

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 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 FOUR 5/8"-11 x 2" BOLT SETS.



## HARDWARE PER CONNECTION

- [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)



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# 6" TRUSS - JOIST HANGERS

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## 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

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

IN PERMANENT APPLICATIONS  
USE WOOD SCREWS.

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

HARDWARE PER  
CONNECTION TO TRUSS

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

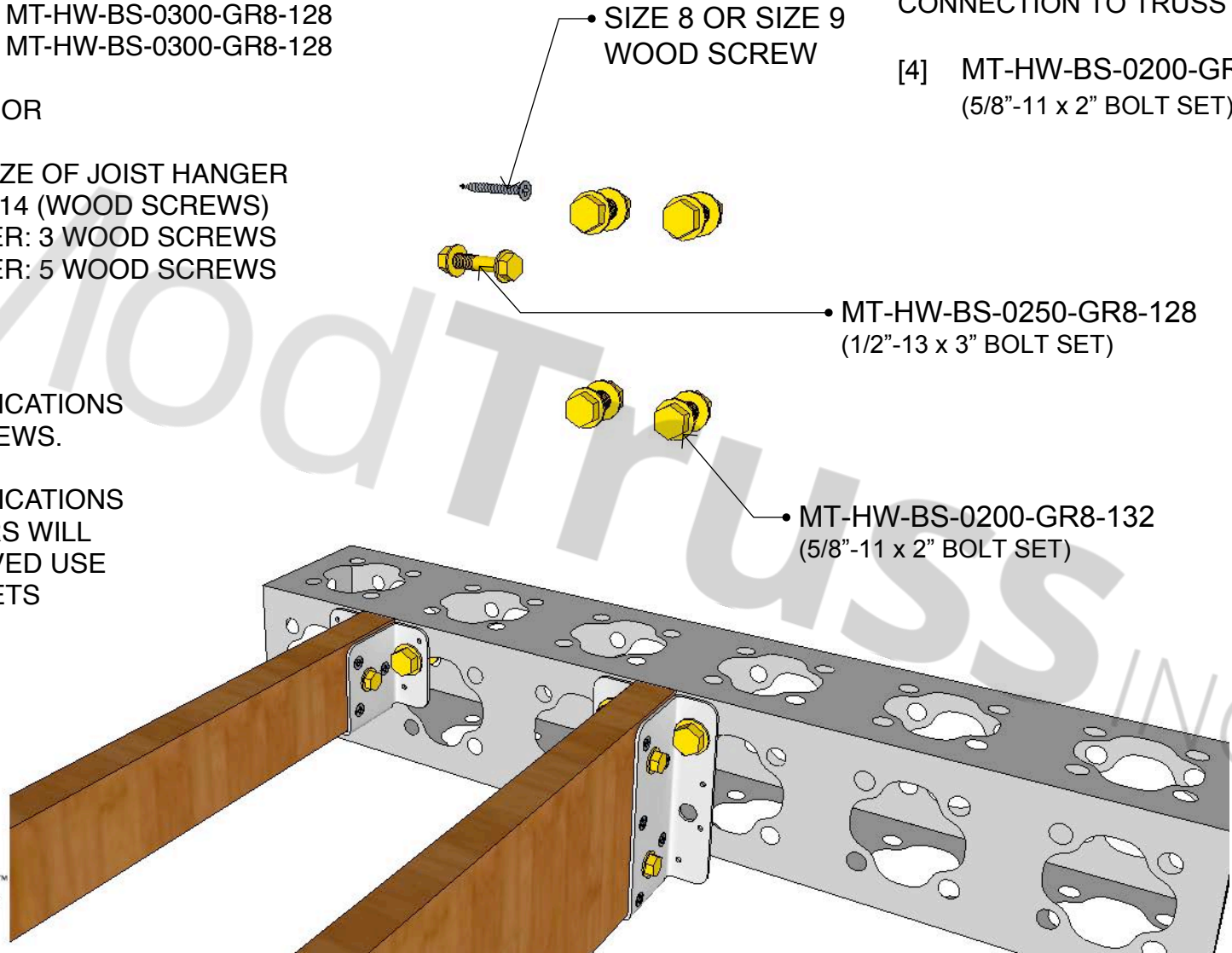
• SIZE 8 OR SIZE 9  
WOOD SCREW

• MT-HW-BS-0250-GR8-128  
(1/2"-13 x 3" BOLT SET)

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



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TM

# 6" TRUSS - ZERO DEGREE PIPE ADAPTOR

\* ALL HARDWARE TO BE GRADE 8.

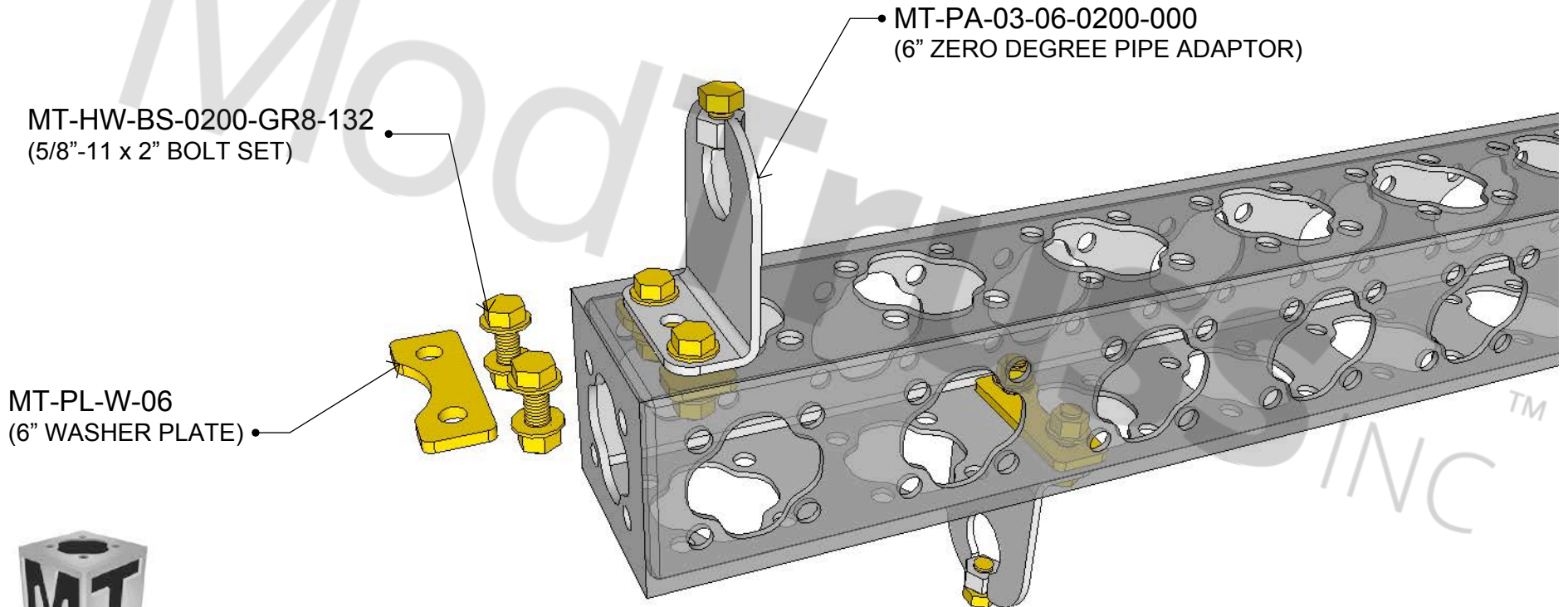
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*NOTE:

WHEN CONNECTING 6" TRUSS TO A 6" ZERO DEGREE PIPE ADAPTOR PLACE ONE 6" WASHER PLATE INSIDE THE TRUSS. BOLT THROUGH THE ZERO DEGREE PIPE ADAPTOR AND TRUSS WITH WASHER PLATE USING 5/8"-11 x 2" BOLT SETS.

## HARDWARE PER CONNECTION

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



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# 6" TRUSS - GUSSET BRACE MOUNT

\* ALL HARDWARE TO BE GRADE 8.

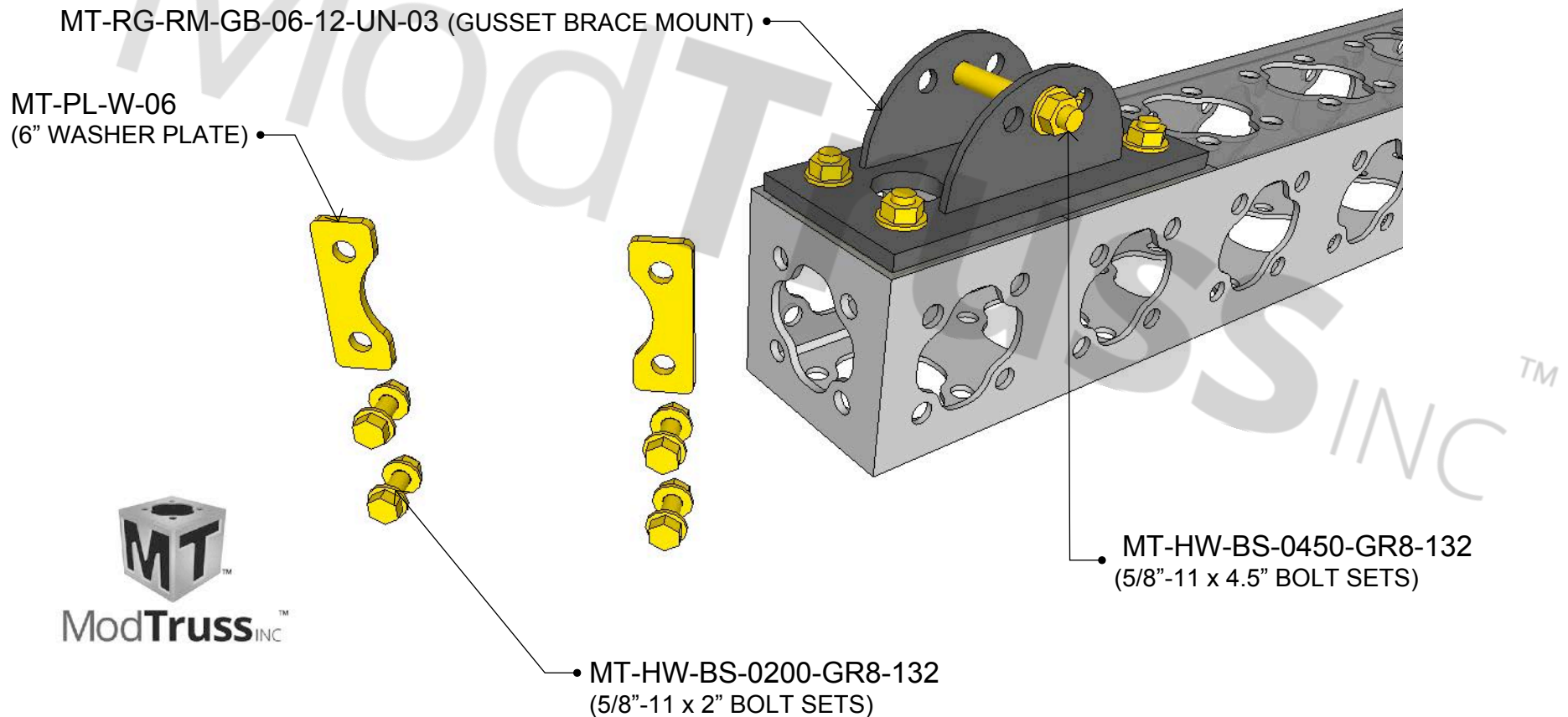
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

**\*NOTE:**

WHEN CONNECTING 6" TRUSS TO A GUSSET BRACE MOUNT PLACE TWO 6" WASHER PLATES INSIDE THE TRUSS. BOLT THROUGH THE GUSSET BRACE MOUNT AND TRUSS WITH WASHER PLATES USING FOUR 5/8"-11 x 2" BOLT SETS.

## HARDWARE PER CONNECTION

- [4] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)
- [2] MT-PL-W-06 (6" WASHER PLATE)
- [1] MT-RG-RM-GB-06-12-UN-03 (GUSSET BRACE MOUNT)
- [1] MT-HW-BS-0450-GR8-132 (5/8"-11 x 4.5" BOLT SET)



# DECORATIVE GUARDRAIL 6" TRUSS

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*NOTE:

WHEN MOUNTING DECORATIVE GUARDRAIL SIDE MOUNTS TO 6" TRUSS, USE TWO 5/8"-11 X 1.5" OR 2" BOLT SETS 3" CENTER TO CENTER SO THE SIDE MOUNT BRACKET IS FLUSH TO THE BOTTOM OF THE 6" TRUSS AS SHOWN. A 6" WASHER PLATE MUST BE USED INSIDE THE 6" TRUSS.

PLACE THE 1/2" X 2.75" PIN IN THE DESIRED 1/2" HOLE IN THE BRACKET FOR THE DECORATIVE PANEL TO REST ON WHEN DROPPED INTO PLACE. ONCE THE PANEL IS IN PLACE THROUGH BOLT USING A 1/2"-13 X 3.5" BOLT SET BOLTING THROUGH THE PANEL AND BRACKET.

## HARDWARE PER CONNECTION

- [4] MT-HW-BS-0150-GR8-132 (5/8"-11 x 1.5" BOLT SET)
- [2] MT-PL-W-06 (6" WASHER PLATE)
- [2] MT-1/2"-13 HEX NUT (GRADE 5) (1/2"- 13 HEX NUT)
- [4] MT-1/2" SAE WASHER (GRADE 5) (1/2" SAE WASHER)
- [2] MT-1/2"-13 x 3.5" HEX BOLT (GRADE 5) (1/2"-13 x 3.5" HEX BOLT)
- [2] MT-1/2" x 2.75" PIN (FRAME HEIGHT PIN)
- [2] MT-AC-HR-20 (20" SIDE MOUNT BRACKET)

**DECORATIVE GAURD RAILING  
WITH 6" TRUSS MUST  
HAVE 6" WASHER PLATES**

MT-3/8" SAE WASHER

MT-HW 3/8"-16 X 7/8" SOCKET HEAD

MT-1/2"-13 HEX NUT (GRADE 5)

MT-1/2" SAE WASHER (GRADE 5)

MT-HW- 1/2" X 2.75" PIN

MT-AC-HR-SM-20

MT-1/2" -13 x 3.5" HEX BOLT (GRADE 5)

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

MT-HW-BS-0150-GR8-132  
(5/8"-11 x 2" BOLT SETS)

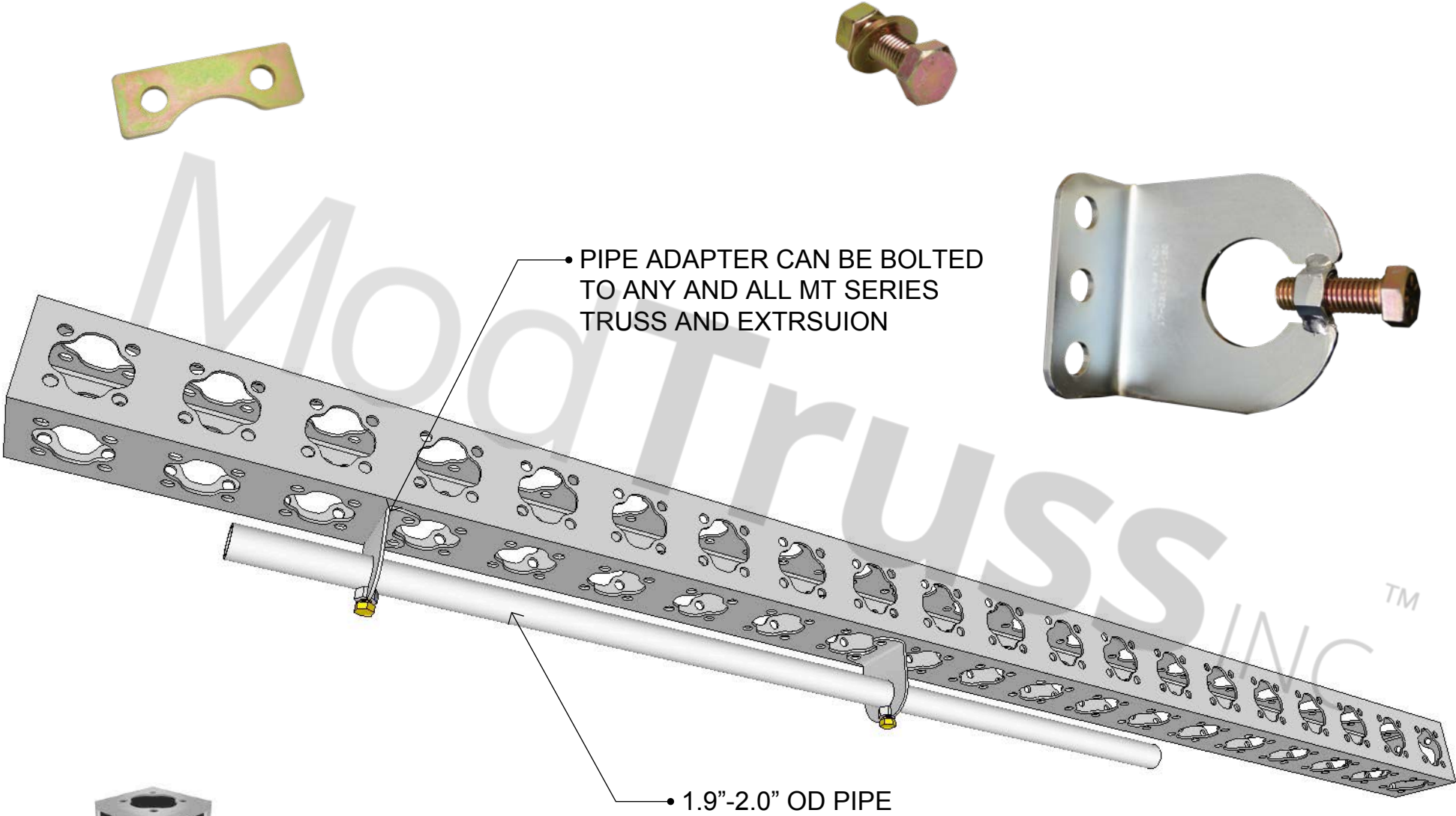


ModTruss<sup>TM</sup> INC

# ModCapable

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs



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# 12" EXTRUSION - END TO END COUNTERSUNK

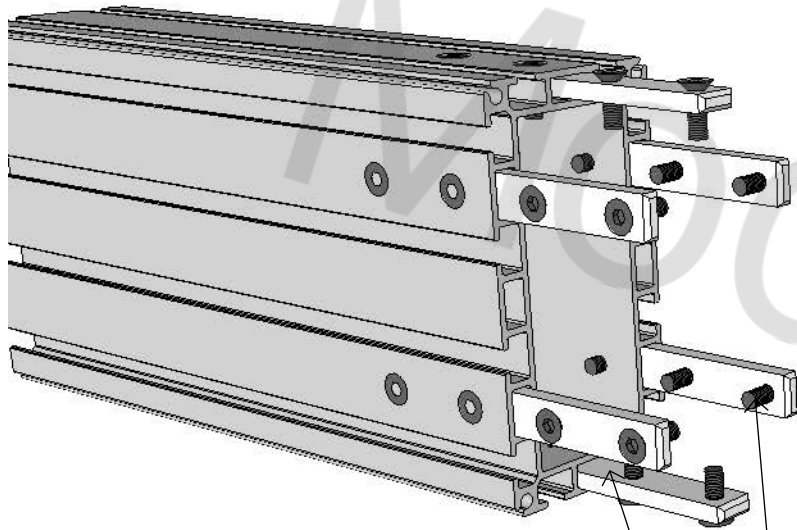
**RECOMMENDED TORQUE VALUE:**  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

**\*NOTE:**

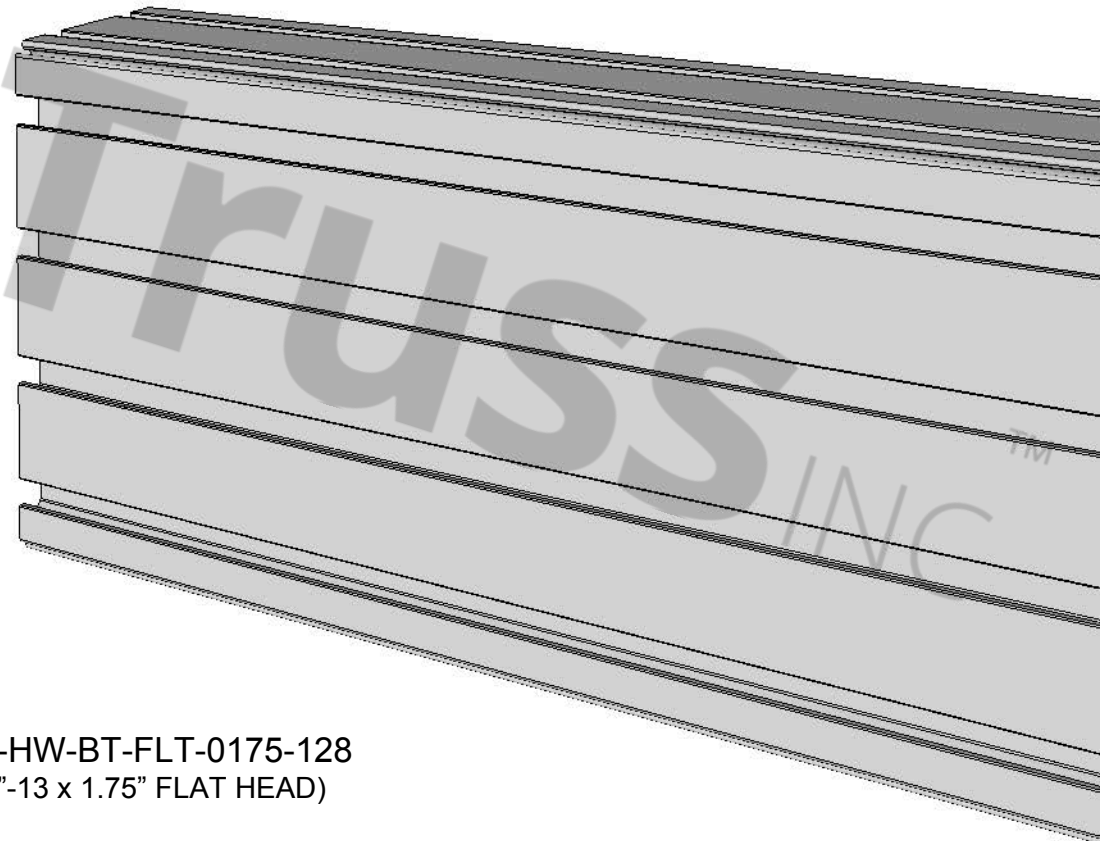
WHEN MAKING AN END TO END CONNECTION WITH 6" x 12" EXTRUSION USE SIX 1/2"-13 FOUR HOLE SPLICE BARS IN THE CLOSED EXTRUSION TRACKS. EXTRUSION MUST BE DRILLED AND OR DRILLED AND COUNTERSUNK FOR THE SPLICE BARS. THE TAPERED END OF THE SPLICE BAR ALLOWS FOR EASIER INSTALLATION WHEN INSTALLING THE SECOND 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)



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



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



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# 12" EXTRUSION - END TO END HEX BOLT

\* ALL HARDWARE TO BE GRADE 8.

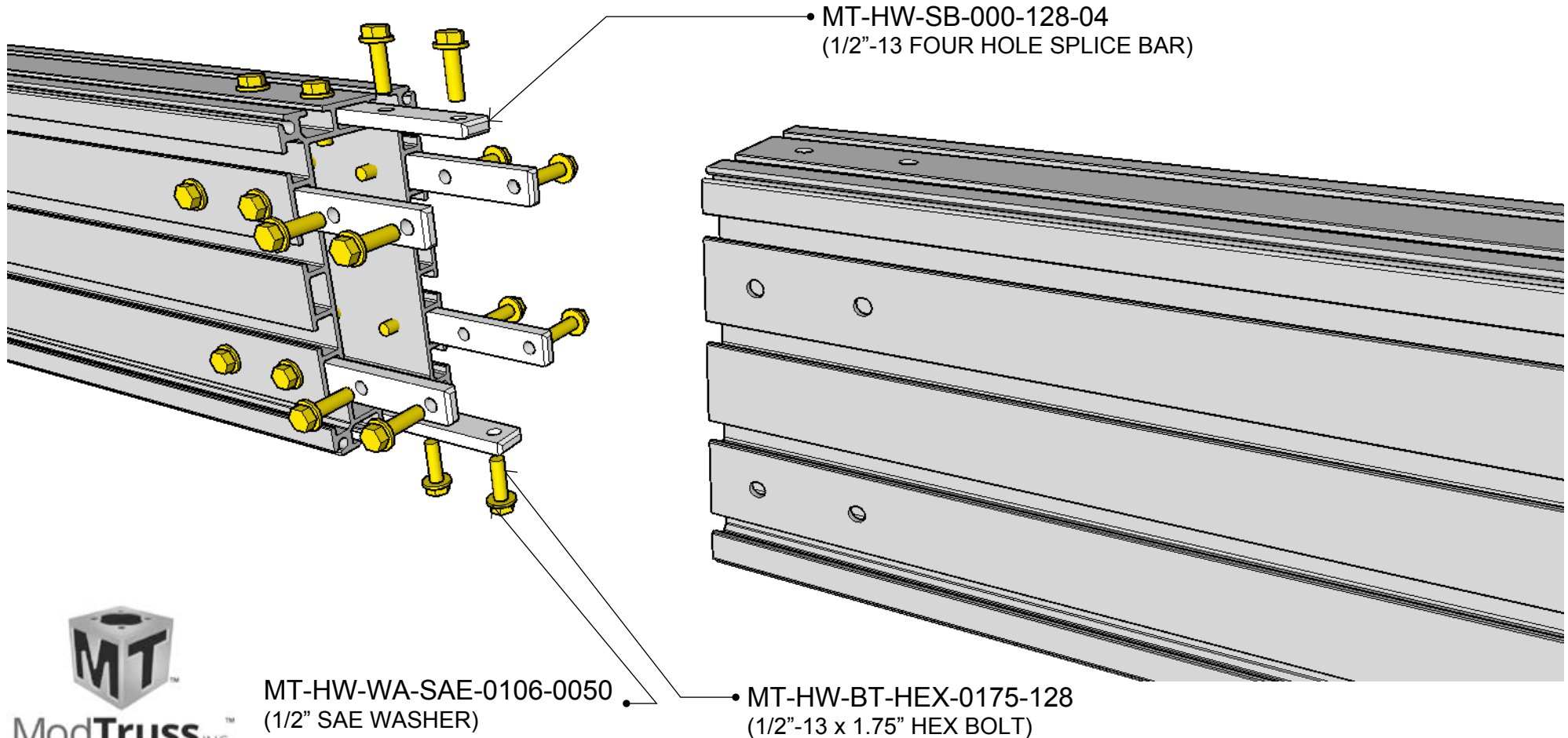
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

**\*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.

## HARDWARE PER CONNECTION

- [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)



# 12" EXTRUSION - END TO END SPLICE TUBE

\* ALL HARDWARE TO BE GRADE 8.

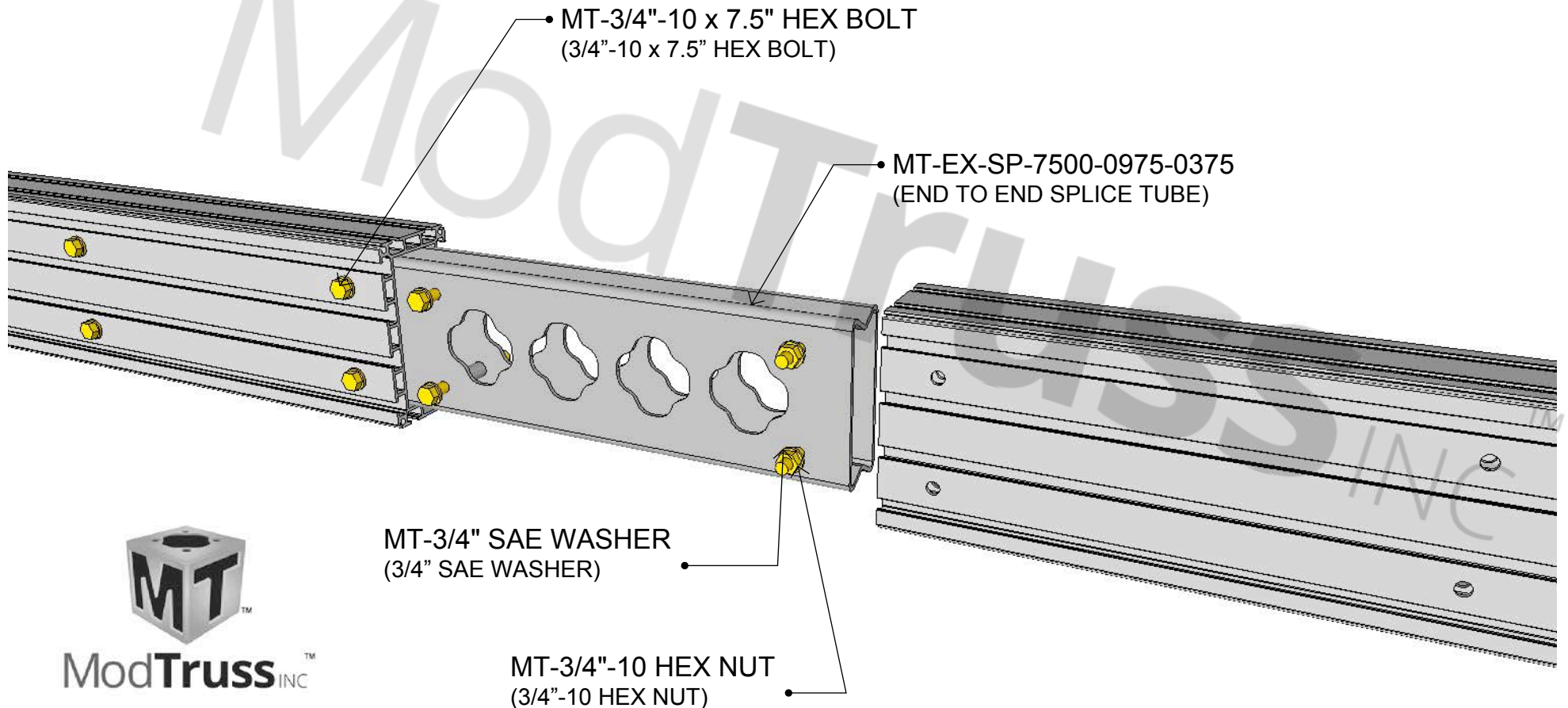
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

**\*NOTE:**

WHEN MAKING AN END TO END CONNECTION WITH 6" x 12" EXTRUSION USING SPICE TUBE. EXTRUSION MUST BE DRILLED FOR THE PASS THROUGH BOLTS. SLIDE THE SPLICE TUBE INTO THE EXTRUSION. INSERT FOUR 3/4"-10 x 7.5" HEX BOLTS PER EXTRUSION CONNECTION SIDE.

## HARDWARE PER CONNECTION

- [1] MT-EX-SP-7500-0975-0375 (END TO END SPLICE TUBE)
- [8] MT-3/4"-10 x 7.5" HEX BOLT (3/4"-10 x 7.5" HEX BOLT)
- [16] MT-3/4" SAE WASHER (3/4" SAE WASHER)
- [8] MT-3/4"-10 HEX NUT (3/4"-10 HEX NUT)



# 12" EXTRUSION - ZERO DEGREE PIPE ADAPTOR

\* ALL HARDWARE TO BE GRADE 8.

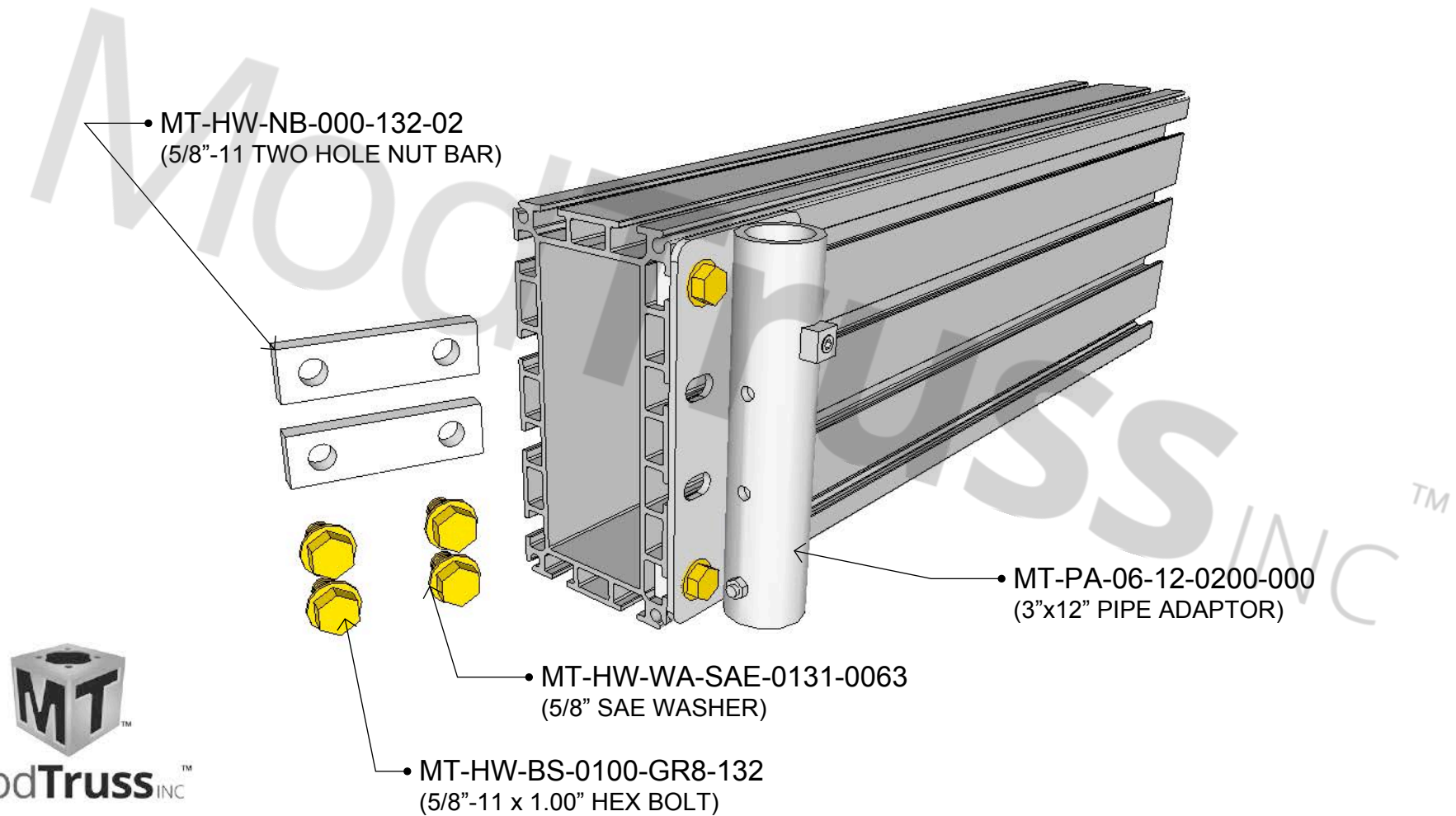
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

**\*NOTE:**

WHEN CONNECTING 6"x12" EXTRUSION TO A 3"x12" ZERO DEGREE PIPE ADAPTOR PLACE TWO 5/8"-11 TWO HOLE NUT BARS IN THE TOP AND BOTTOM EXTRUSION TRACK (LOCATION AS SHOWN). BOLT THROUGH THE PIPE ADAPTOR INTO THE NUT BARS WITH FOUR 5/8"-11 x 1" HEX BOLTS AND 5/8" SAE WASHERS.

## HARDWARE PER CONNECTION

- [4] MT-HW-BS-0100-GR8-132 (5/8"-11 x 1" HEX BOLT)
- [4] MT-HW-NB-000-132-02 (TWO HOLE NUT BAR)
- [1] MT-PA-06-12-0200-000 (3"x12" PIPE ADAPTOR)



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# 12" TRUSS - END TO END

\* ALL HARDWARE TO BE GRADE 8.

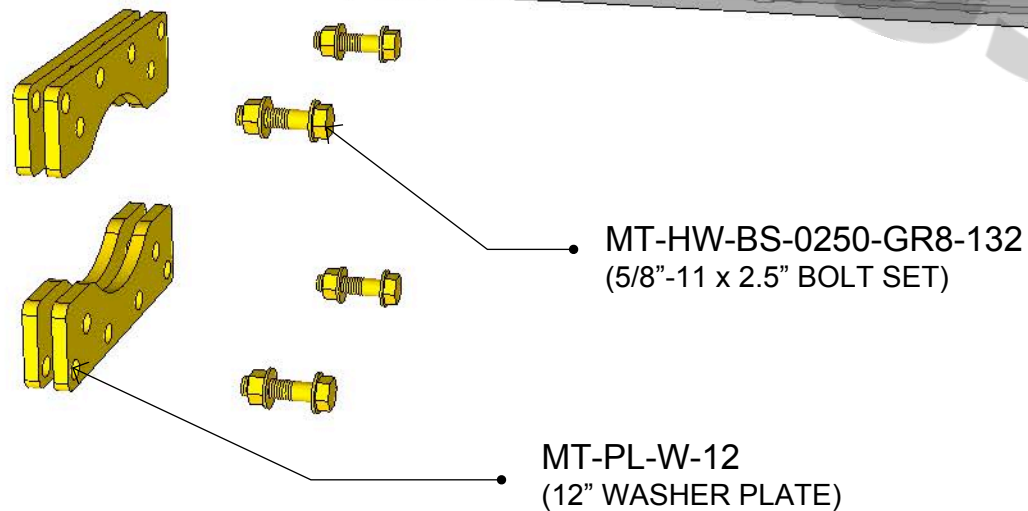
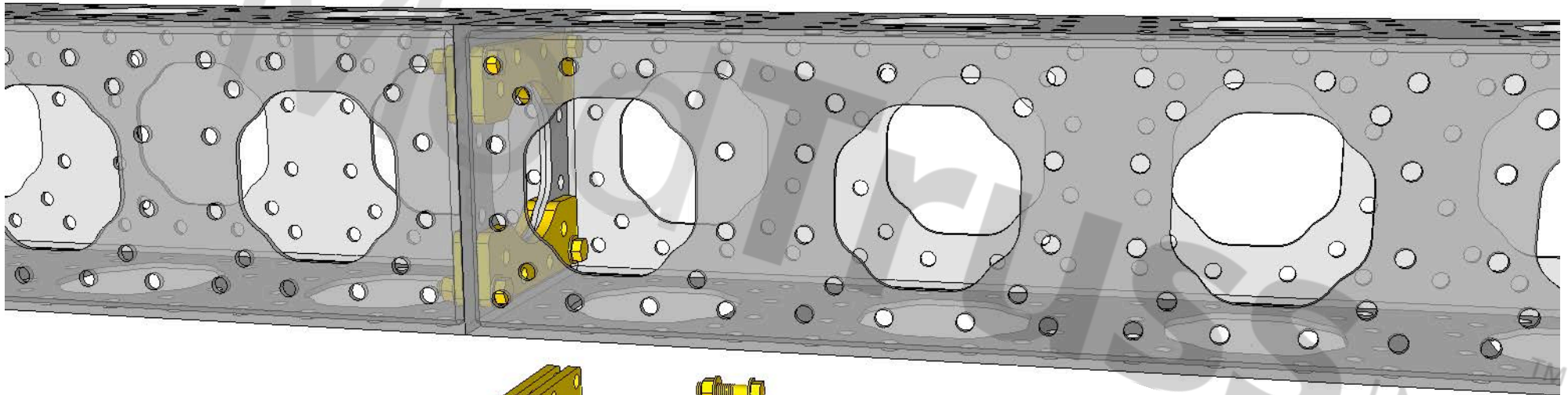
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

**\*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.

**HARDWARE PER CONNECTION**

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



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# 12" TRUSS - TEE CONNECTION

\* ALL HARDWARE TO BE GRADE 8.

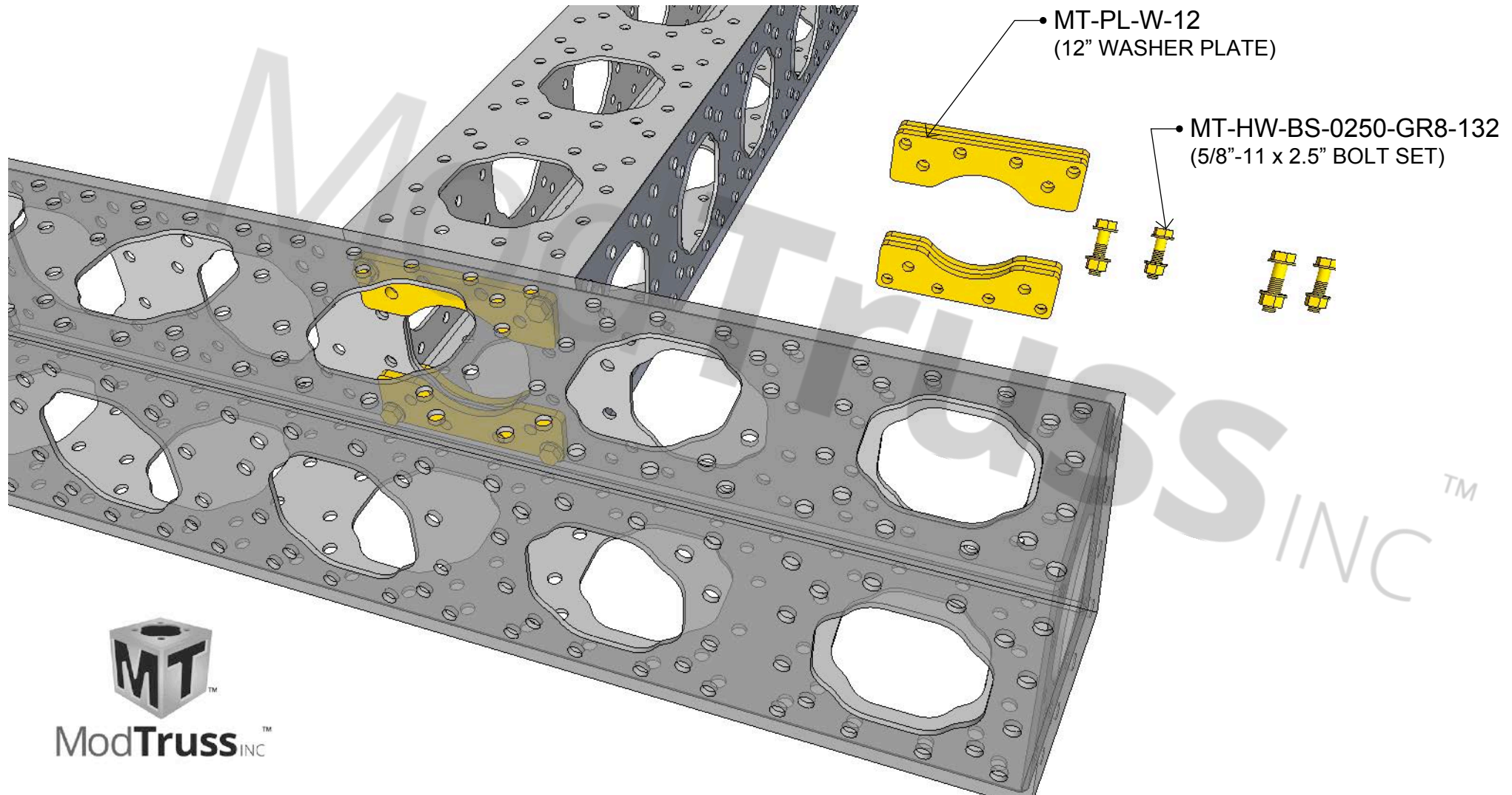
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*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.

## HARDWARE PER CONNECTION

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



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# 12" TRUSS - 12"x24" SPLICE PLATE

\* ALL HARDWARE TO BE GRADE 8.

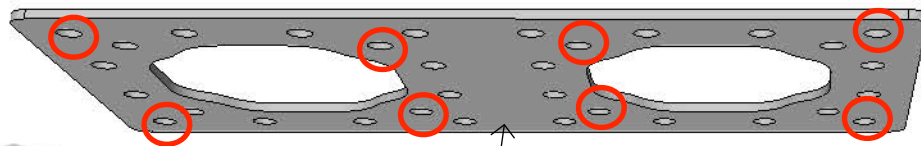
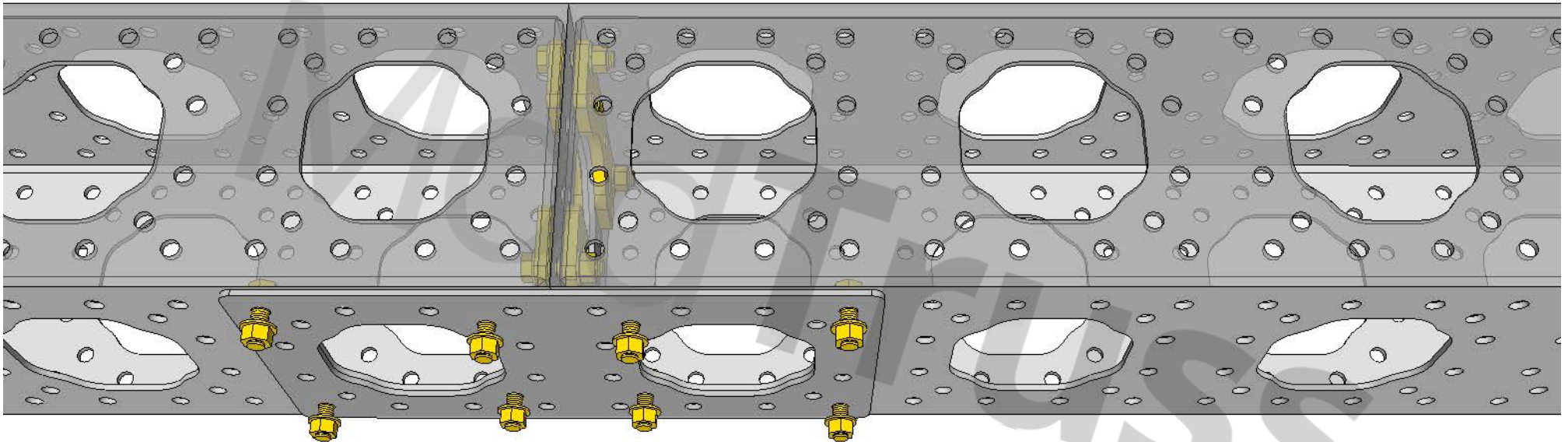
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*NOTE:

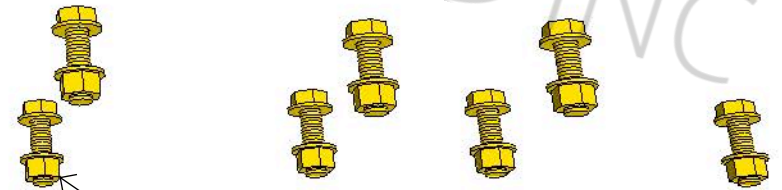
WHEN INSTALLING A 12"x24" SPLICE PLATE, USE EIGHT BOLT SETS AS SHOWN. WASHER PLATES ARE NOT NEEDED AT THE SPLICE PLATE BUT ARE STILL REQUIRED AT THE STANDARD END TO END CONNECTION. BE SURE TO USE THE HOLES SHOWN SO THERE IS NOT BOLT COLLISION WITH THE HARDWARE IN THE STANDARD END TO END CONNECTION.

## HARDWARE PER 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)



• MT-PL-S-12-24-000  
(12"x24" SPLICE PLATE)



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



# 12" TRUSS - 12" FLAT HINGE

\* ALL HARDWARE TO BE GRADE 8.

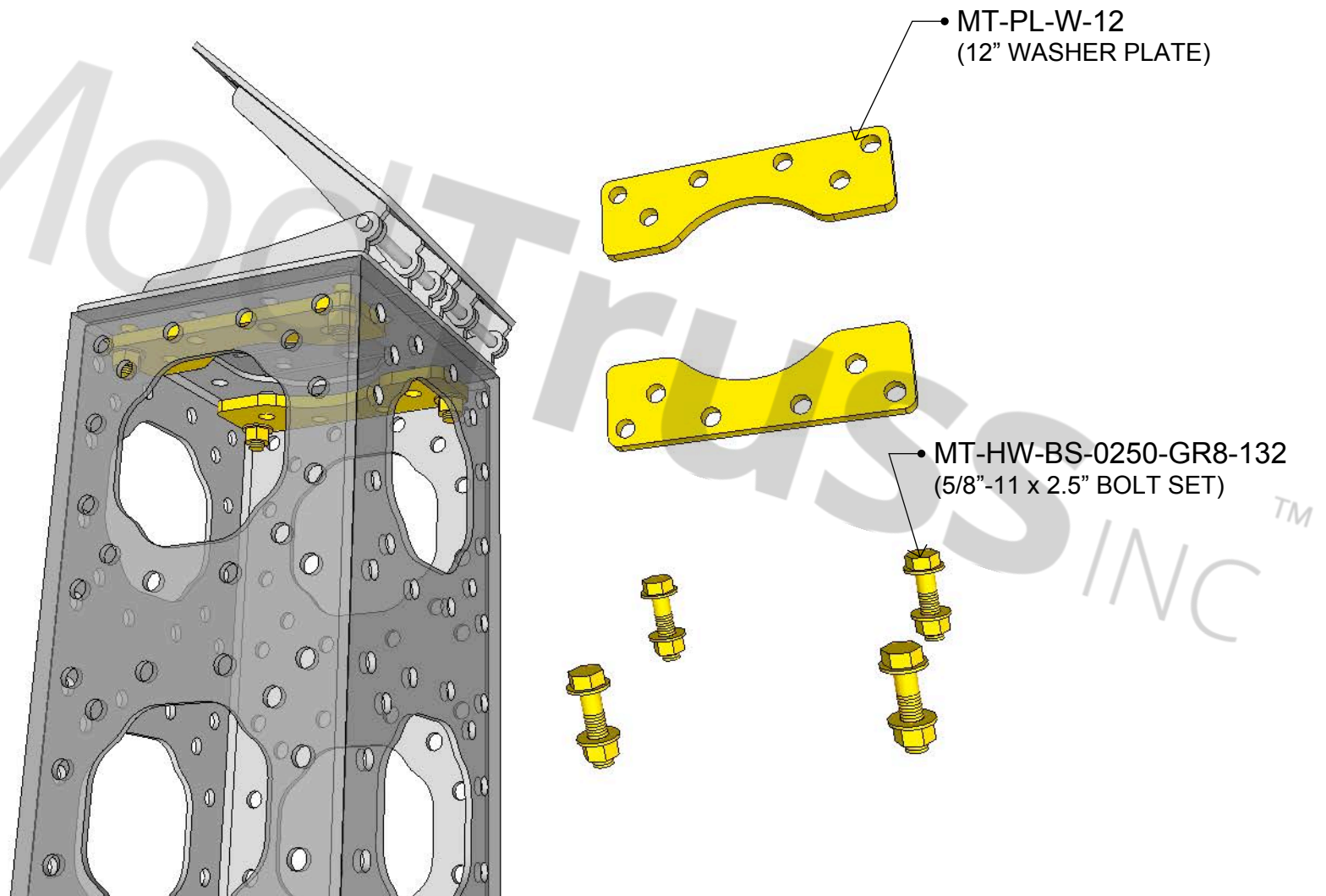
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*NOTE:

WHEN CONNECTING A 12" FLAT HINGE TO 12" TRUSS, PLACE TWO 12" WASHER PLATES INSIDE TRUSS MEMBER AS SHOWN. 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

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



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# 12" TRUSS - 12" 180 HINGE

\* ALL HARDWARE TO BE GRADE 8.

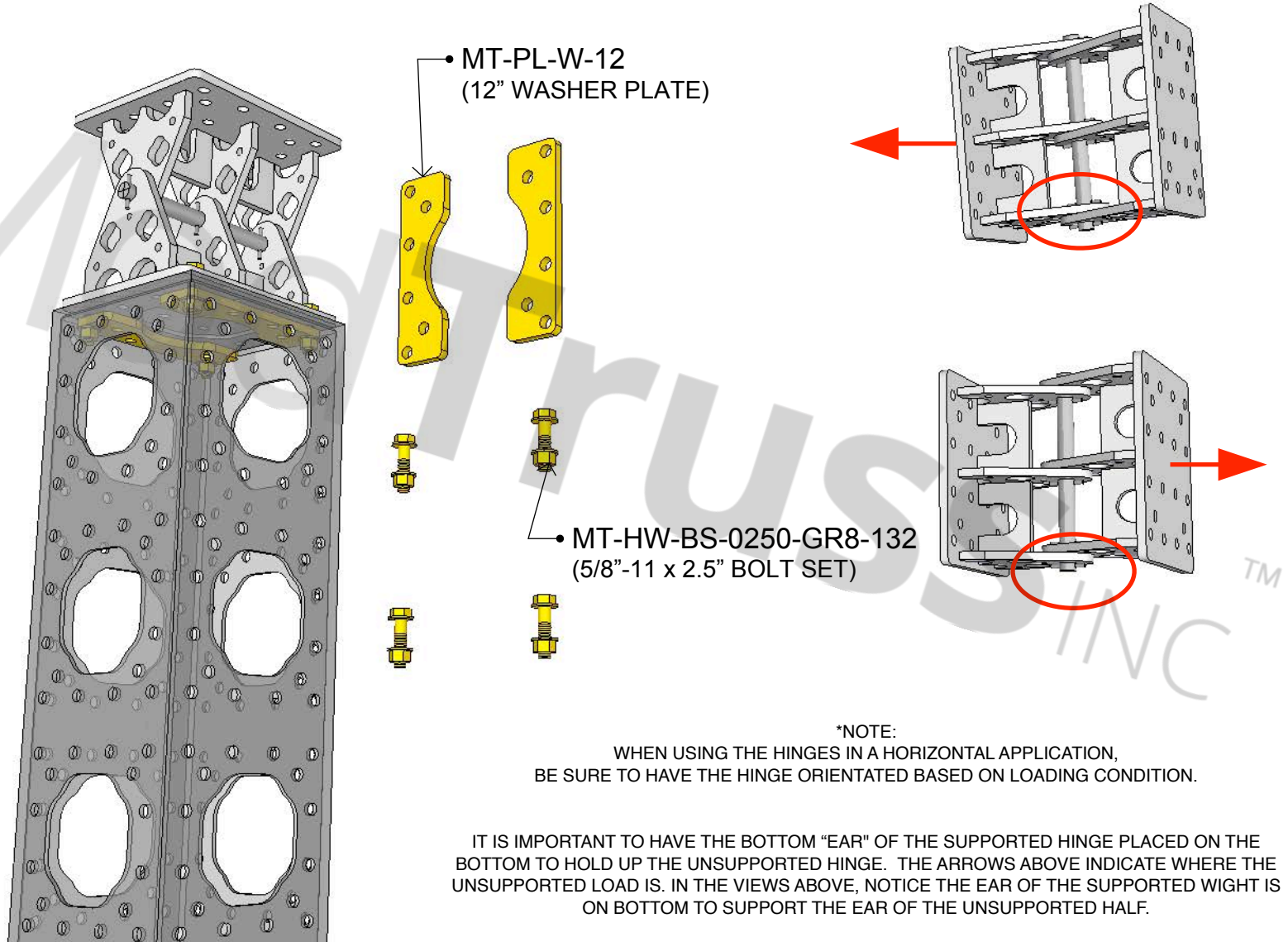
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*NOTE:

WHEN CONNECTING A 12" 180 HINGE TO 12" TRUSS, PLACE TWO 12" WASHER PLATES INSIDE TRUSS MEMBER AS SHOWN. 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

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



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

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

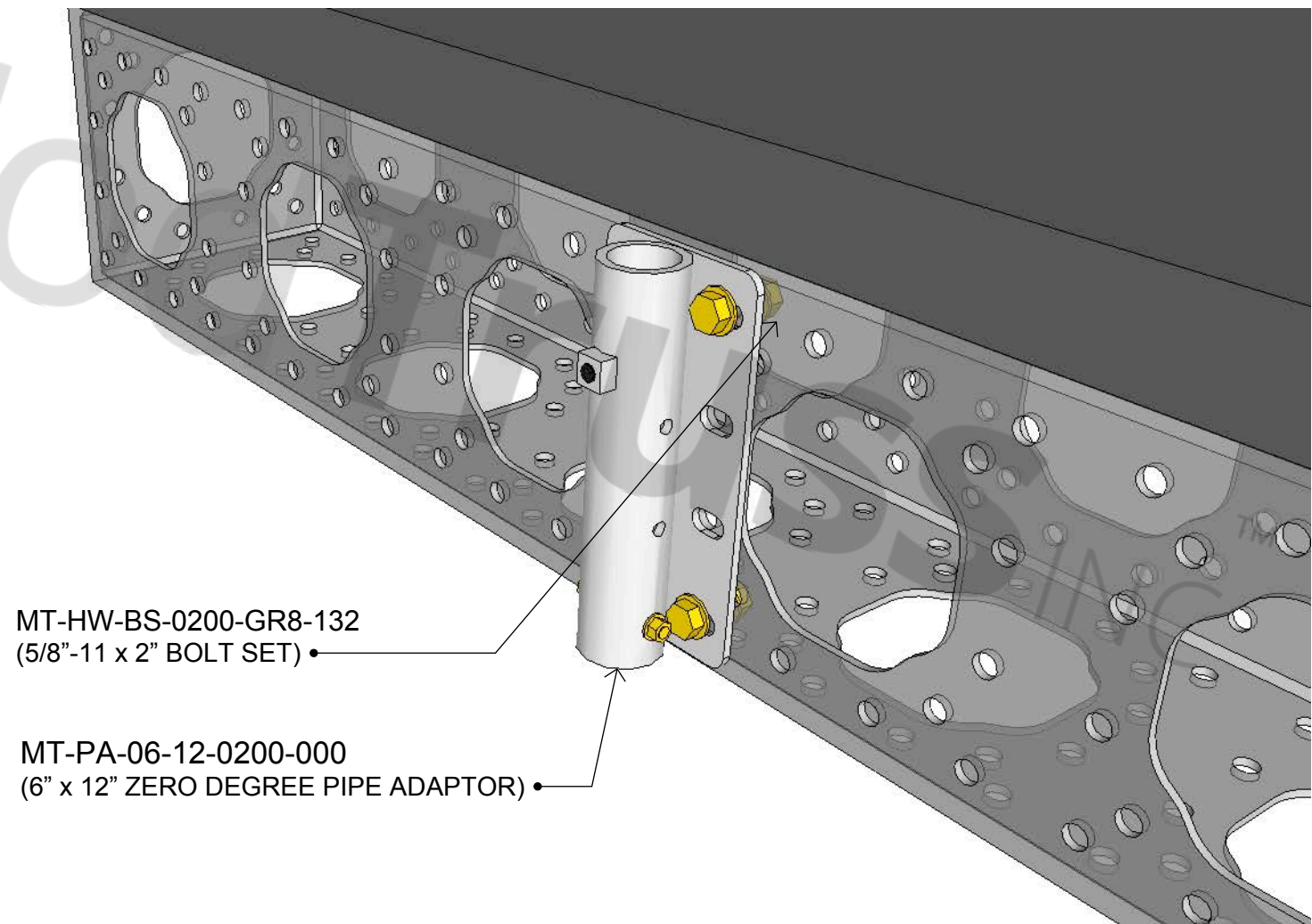
**\*NOTE:**

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

## HARDWARE PER CONNECTION

- [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)

FOR GUARDRAIL MOUNTING, WASHER PLATES ARE NOT NEEDED.



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

MT-PA-06-12-0200-000  
(6" x 12" ZERO DEGREE PIPE ADAPTOR)



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# 12" TRUSS - EXTRUSION T SLOT PIPE

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

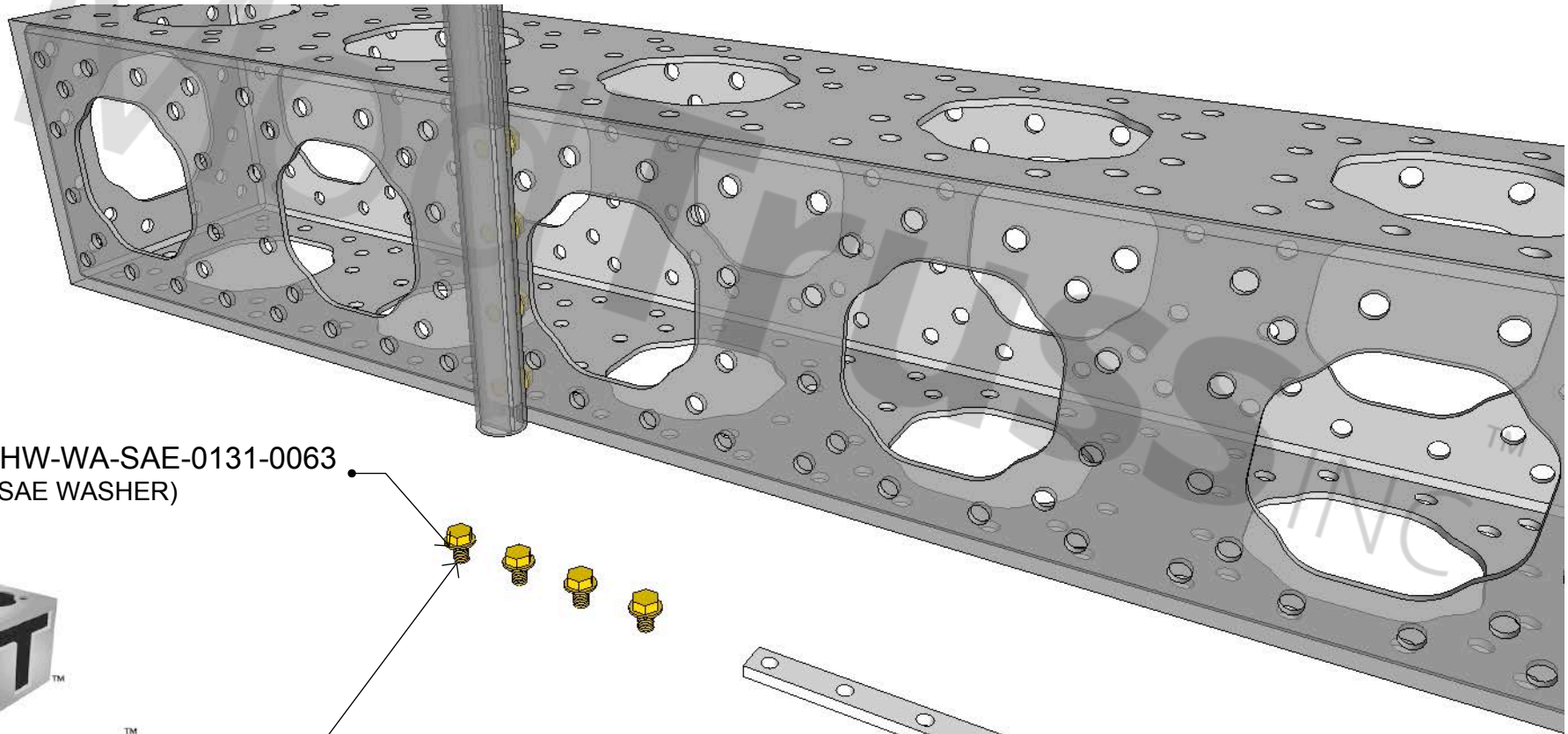
## \*NOTE:

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.

## HARDWARE PER CONNECTION

- [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)

FOR GUARDRAIL MOUNTING, WASHER PLATES ARE NOT NEEDED.



MT-HW-WA-SAE-0131-0063  
(5/8" SAE WASHER)



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MT-HW-BT-HEX-0100-132  
(5/8"-11 x 1" HEX BOLT)

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



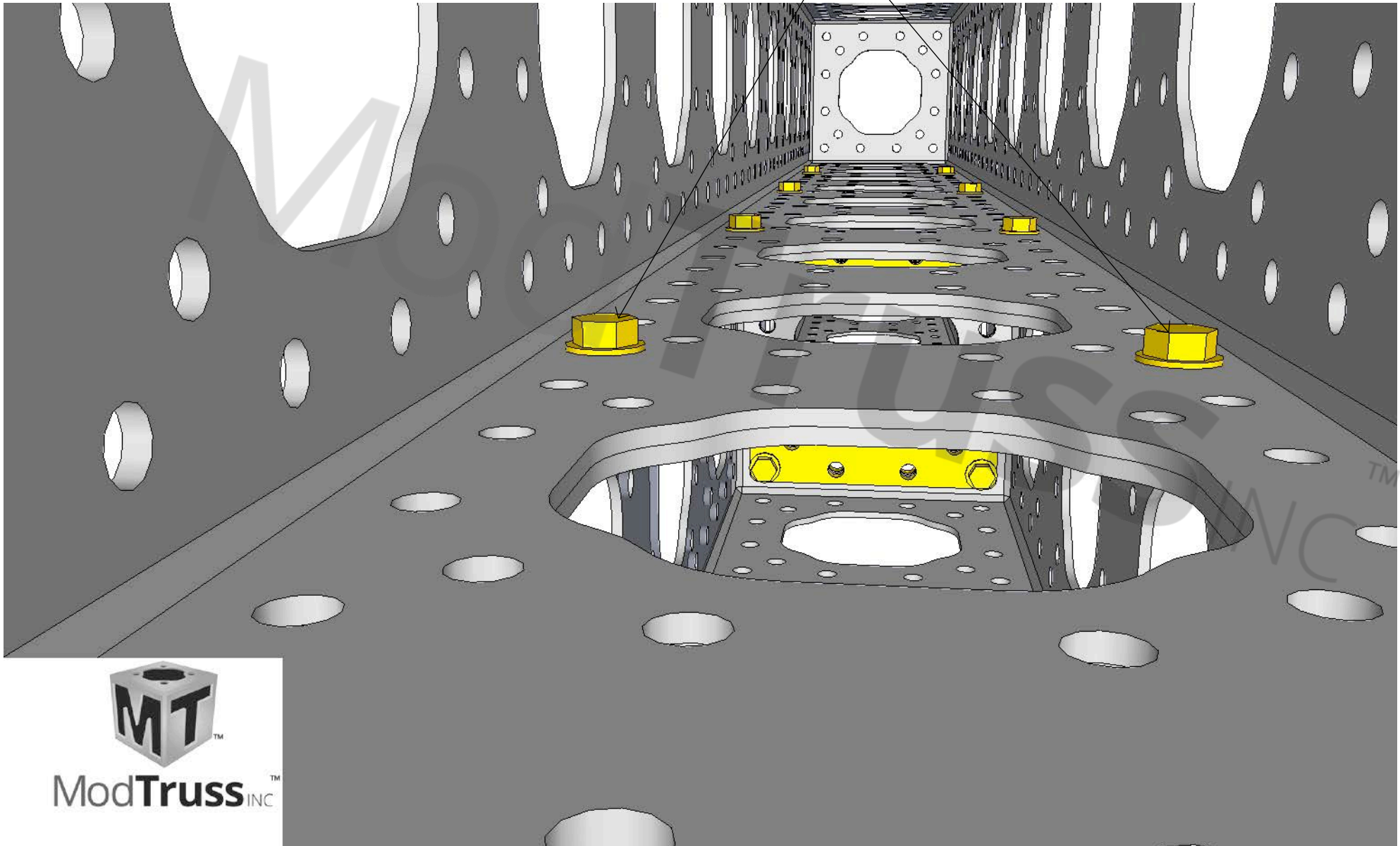
# 12" TRUSS - LAMINATION

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 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.

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



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# 12" TRUSS - HEAD BLOCK

\* ALL HARDWARE TO BE GRADE 8.

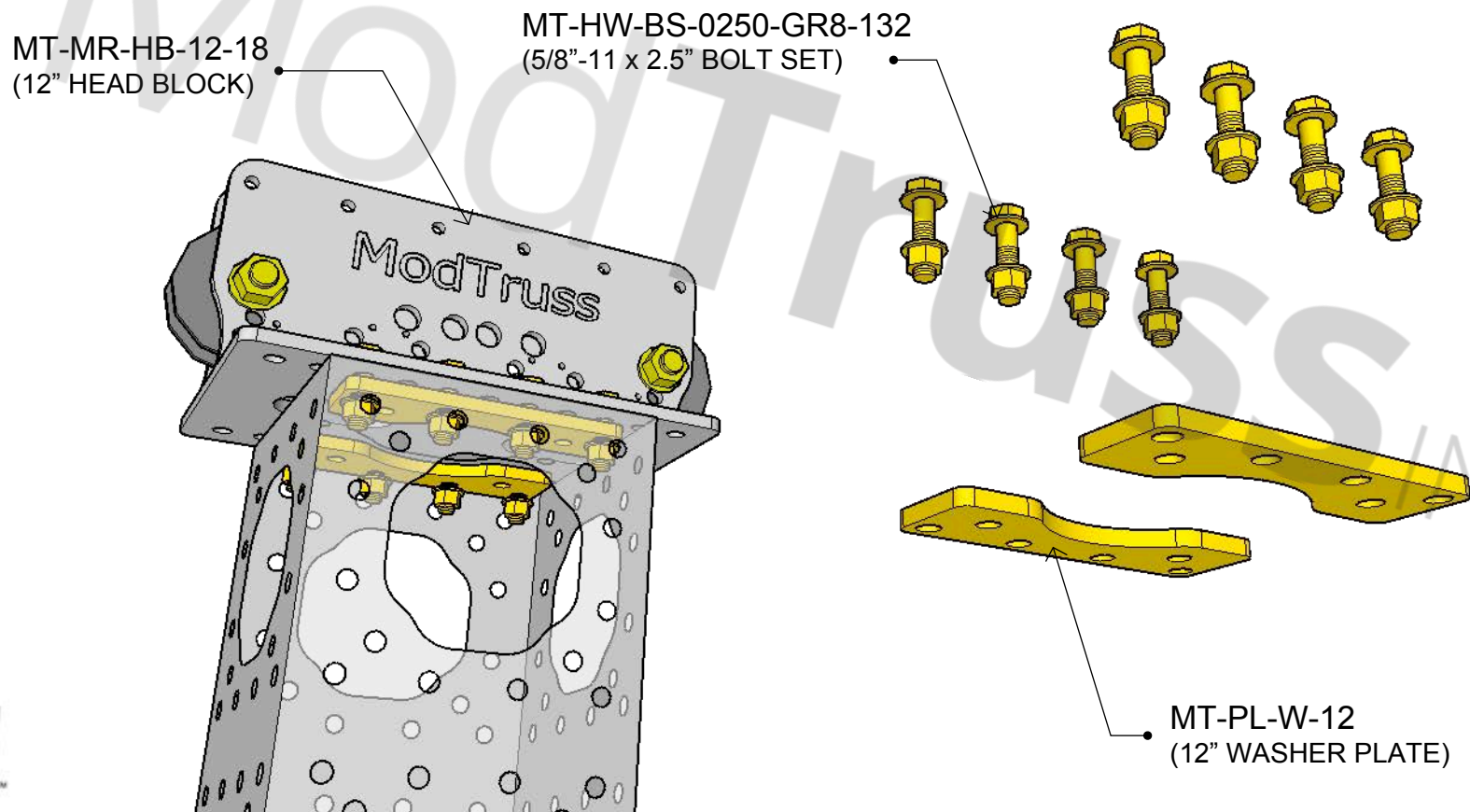
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

**\*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.

## HARDWARE PER CONNECTION

- [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)



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# 12" TRUSS - BASE PLATE

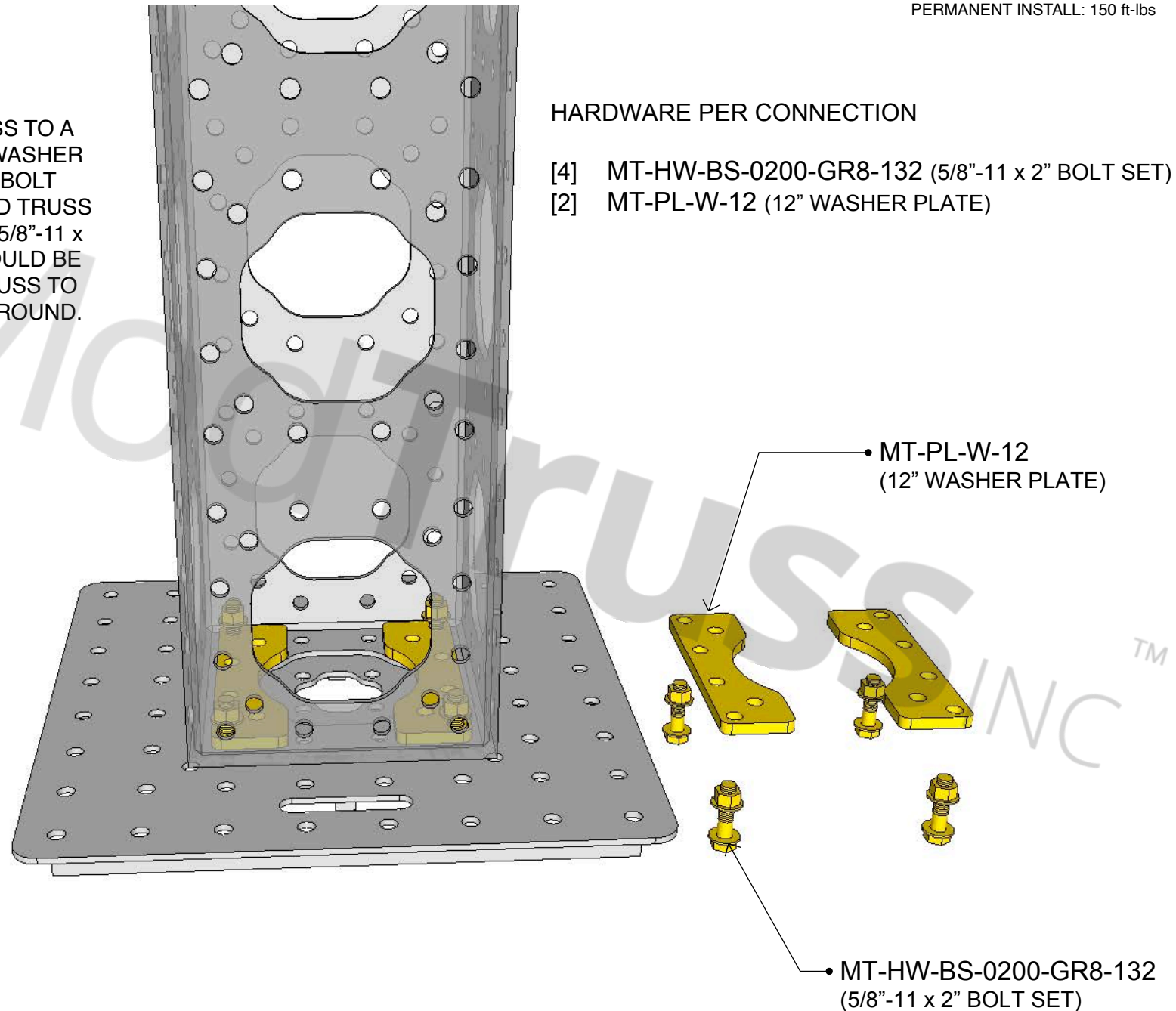
\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 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.

## HARDWARE PER CONNECTION

- [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

\* ALL HARDWARE TO BE GRADE 8.

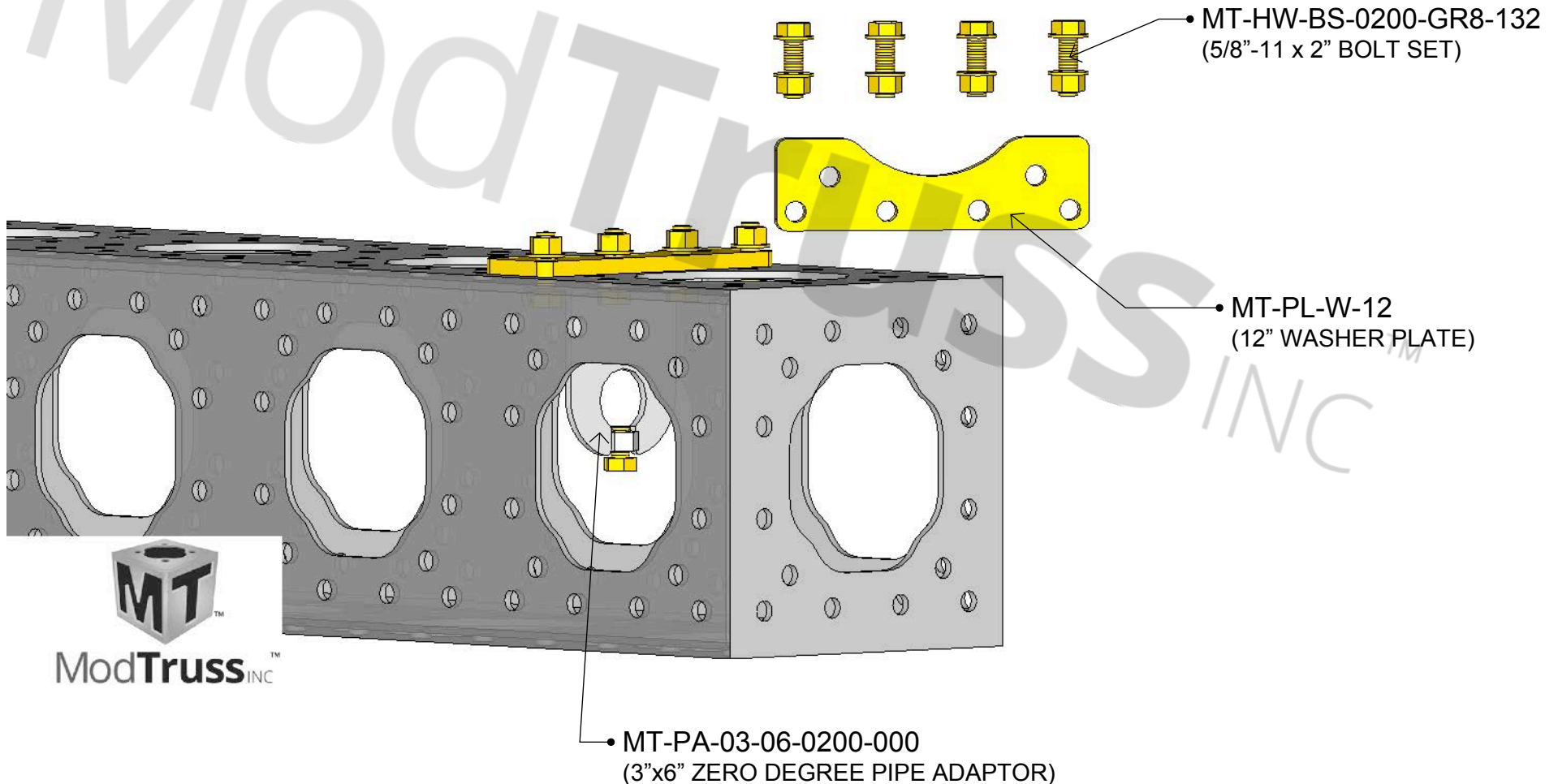
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*NOTE:

WHEN CONNECTING A 3" x 6" PIPE ADAPTER TO THE INSIDE OF TRUSS, PLACE ONE 12" WASHER PLATE TO THE OUTSIDE OF THE TRUSS. BOLT THROUGH THE PIPE ADAPTER AND TRUSS WITH WASHER PLATE USING FOUR 5/8"-11 x 2" BOLT SETS.

## HARDWARE PER CONNECTION

- [1] MT-PA-03-06-0200-000 (3" x 6" ZERO DEGREE PIPE ADAPTER)
- [4] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)
- [1] MT-PL-W-12 (12" WASHER PLATE)



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

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

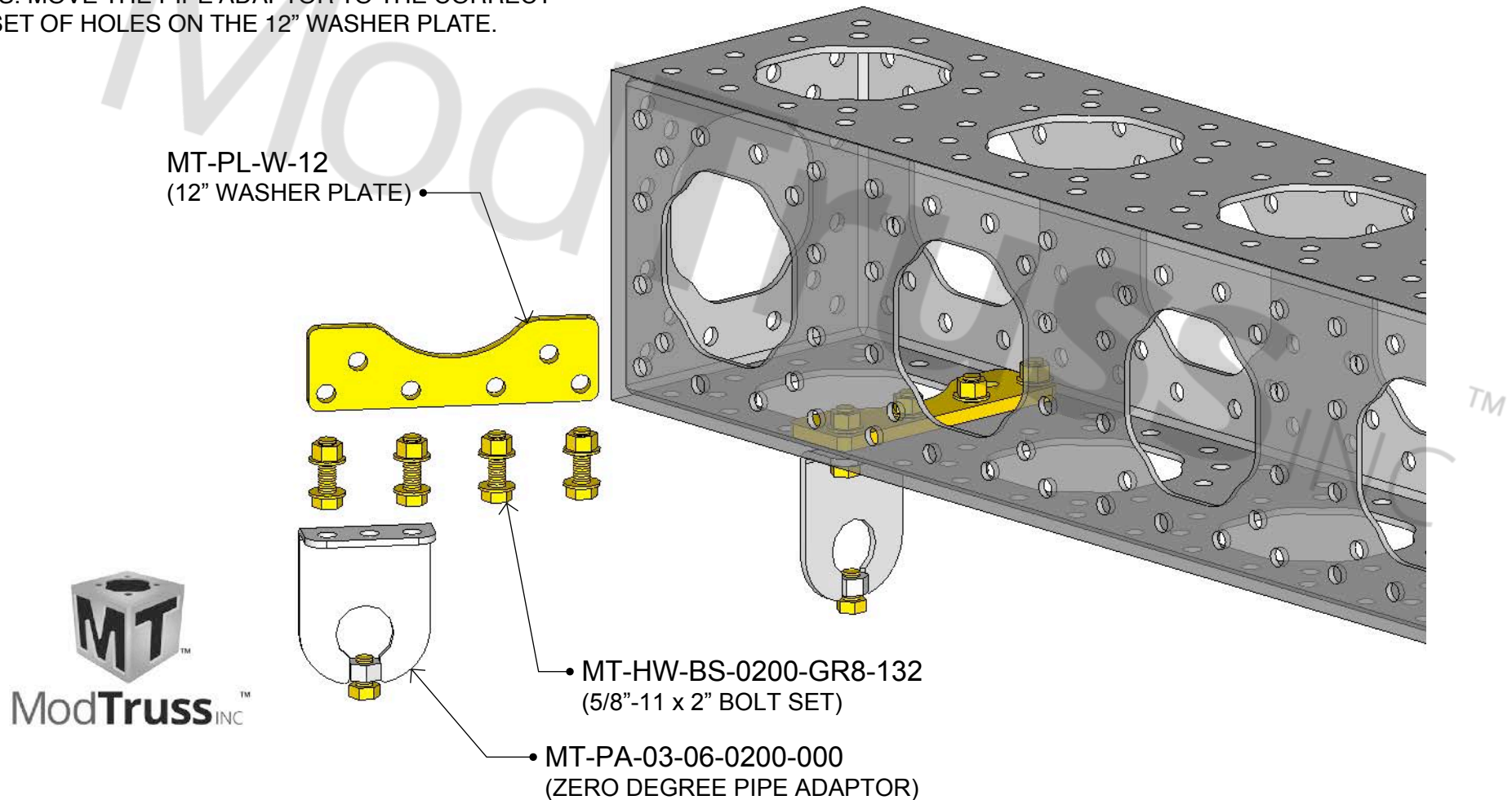
## \*NOTE:

WHEN CONNECTING A 3" x 6" PIPE ADAPTER TO THE OUTSIDE OF TRUSS, PLACE ONE 12" WASHER PLATE TO THE INSIDE OF THE TRUSS. BOLT THROUGH THE PIPE ADAPTER AND TRUSS WITH WASHER PLATE USING FOUR 5/8"-11 x 2" BOLT SETS.

PIPE ADAPTER CAN ALSO BE BOLTED OFFSET TO THE TRUSS. MOVE THE PIPE ADAPTOR TO THE CORRECT SET OF HOLES ON THE 12" WASHER PLATE.

## HARDWARE PER CONNECTION

- [1] MT-PA-03-06-0200-000 (3" x 6" ZERO DEGREE PIPE ADAPTER)
- [4] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" BOLT SET)
- [1] MT-PL-W-12 (12" WASHER PLATE)



# 12" TRUSS - 12" TEE RIGGING MOUNT

\* ALL HARDWARE TO BE GRADE 8.

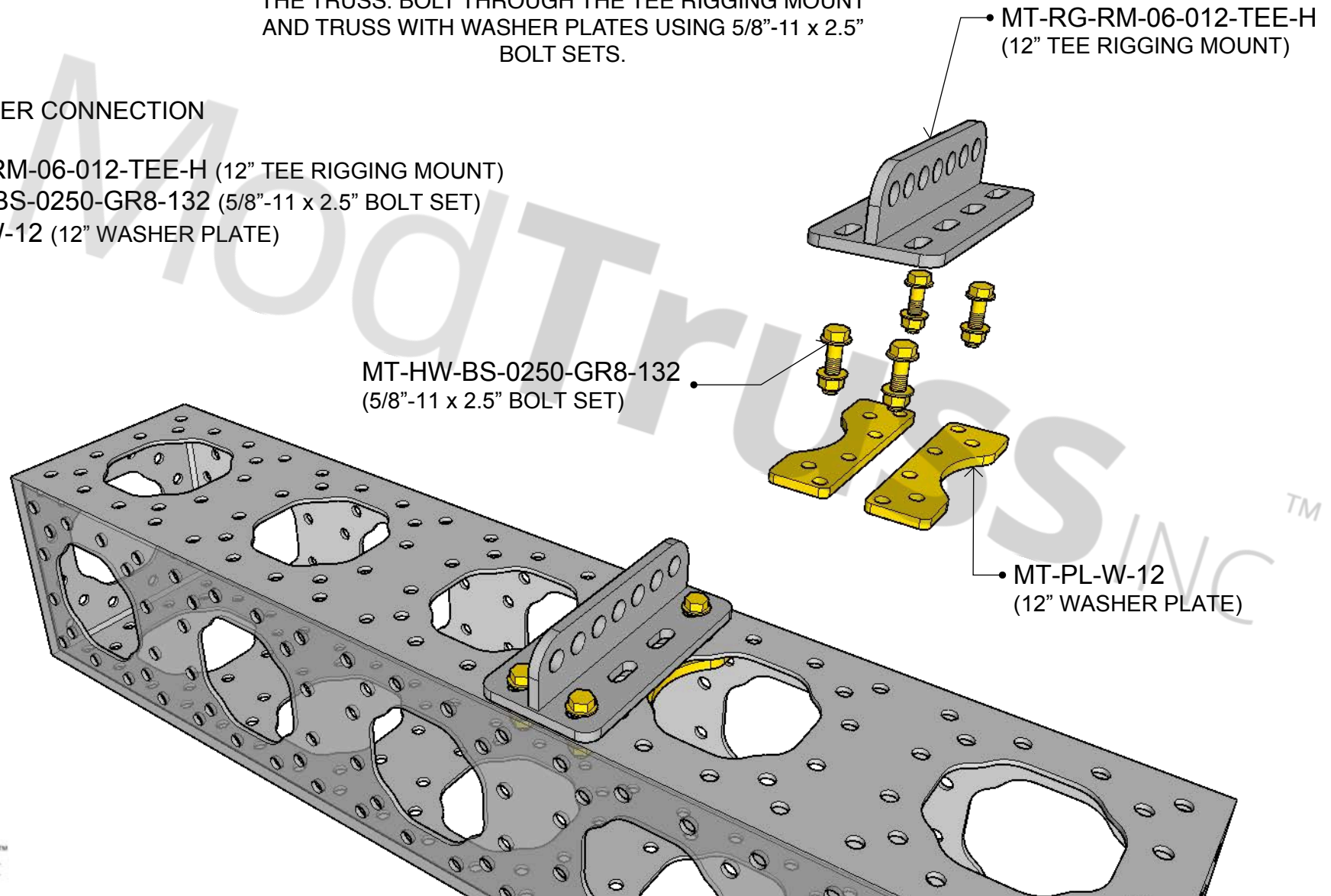
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*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

- [1] MT-RG-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)



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# 12" TRUSS - GUSSET BRACE MOUNT

\* ALL HARDWARE TO BE GRADE 8.

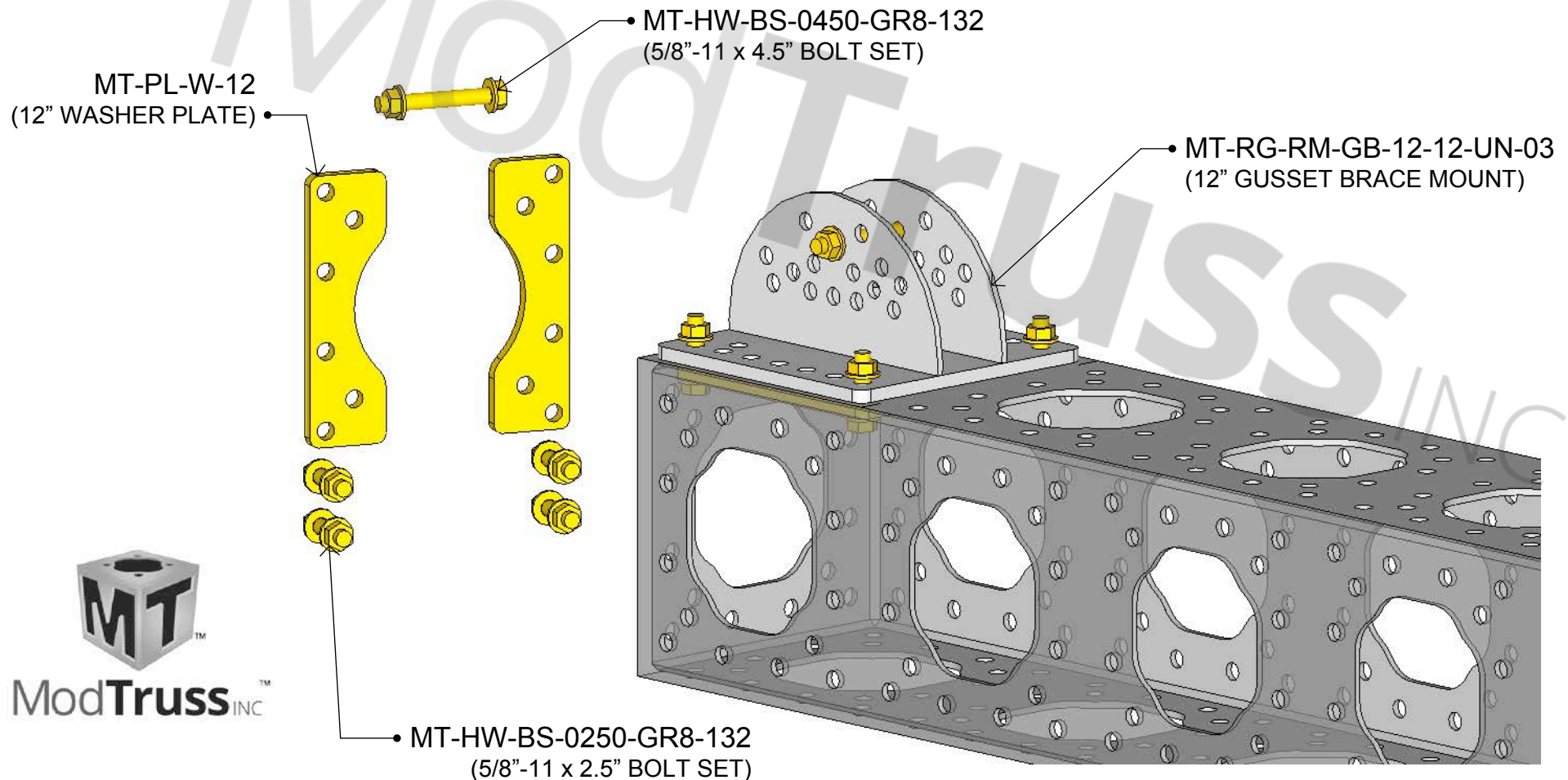
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## \*NOTE:

WHEN CONNECTING A 12" GUSSET BRACE MOUNT TO 12" TRUSS TO, PLACE TWO 12" WASHER PLATES INSIDE THE TRUSS. BOLT THROUGH THE 12" BRACE MOUNT AND TRUSS WITH WASHER PLATES USING 5/8"-11 x 2.5" BOLT SETS. CONNECT 3" BRACE TRUSS TO 12" GUSSET BRACE MOUNT USING 5/8"-11 x 4.5" BOLT SET.

## HARDWARE PER CONNECTION

- [1] MT-RG-RM-GB-12-12-UN-03 (12" GUSSET BRACE MOUNT)
- [4] MT-HW-BS-0250-GR8-132 (5/8"-11 x 2.5" BOLT SET)
- [2] MT-PL-W-12 (12" WASHER PLATE)
- [1] MT-HW-BS-0450-GR8-132 (5/8"-11 x 4.5" BOLT SET)



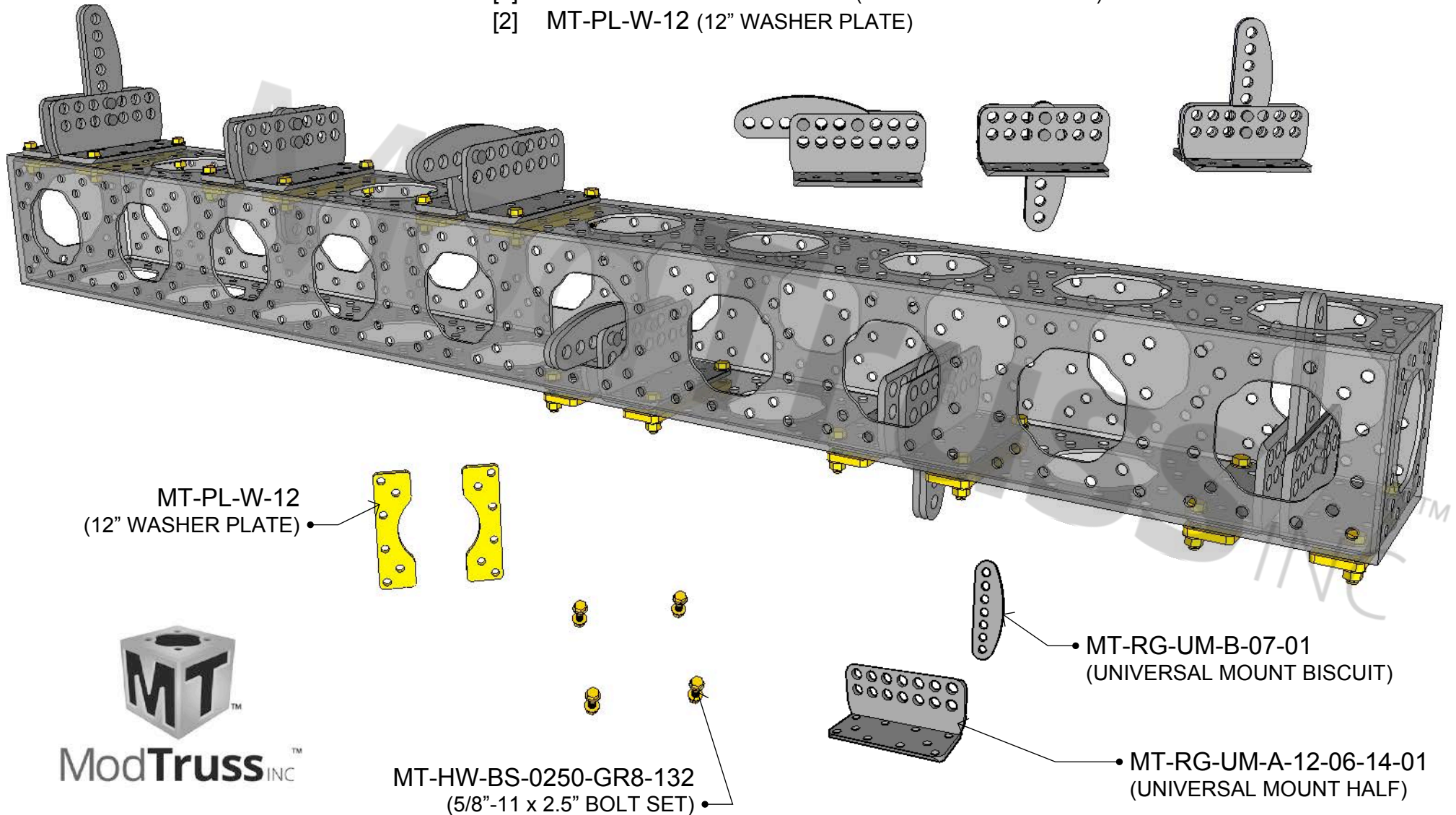
# 12" TRUSS - UNIVERSAL MOUNT AND BISCUITS

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## HARDWARE PER CONNECTION

- [2] MT-RG-UM-A-12-06-14-01 (UNIVERSAL MOUNT HALF)
- [2] MT-RG-UM-B-07-01 (UNIVERSAL MOUNT BISCUIT)
- [4] MT-HW-BS-0250-GR8-132 (5/8"-11 x 2.5" BOLT SET)
- [2] MT-PL-W-12 (12" WASHER PLATE)





# JOIST HANGERS

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## 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: 5 WOOD SCREWS
- 2X12 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

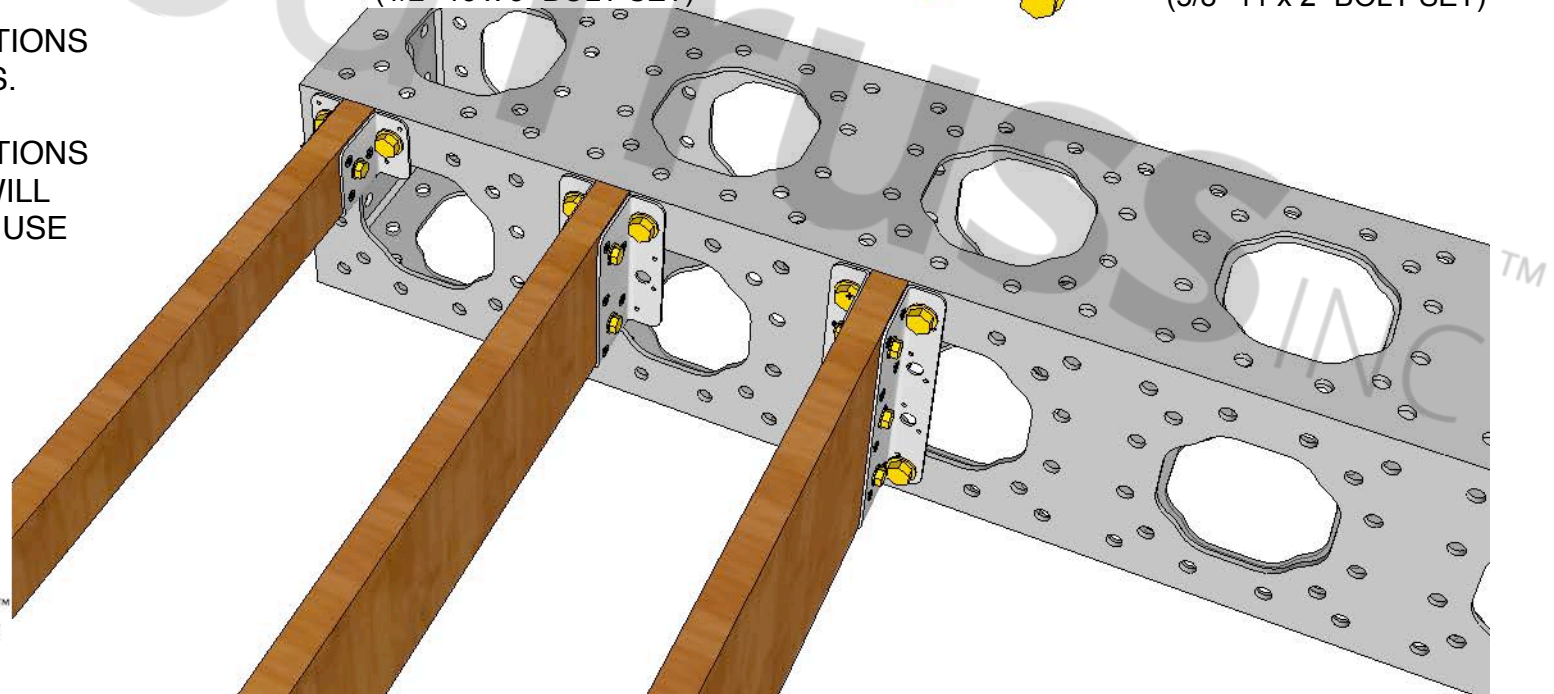
HARDWARE PER  
CONNECTION TO TRUSS

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

SIZE 8 OR SIZE 9  
WOOD SCREW

MT-HW-BS-0200-GR8-132  
(1/2"-13 x 3" BOLT SET)

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



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# SLEEVE BLOCKS

\* ALL HARDWARE TO BE GRADE 8.

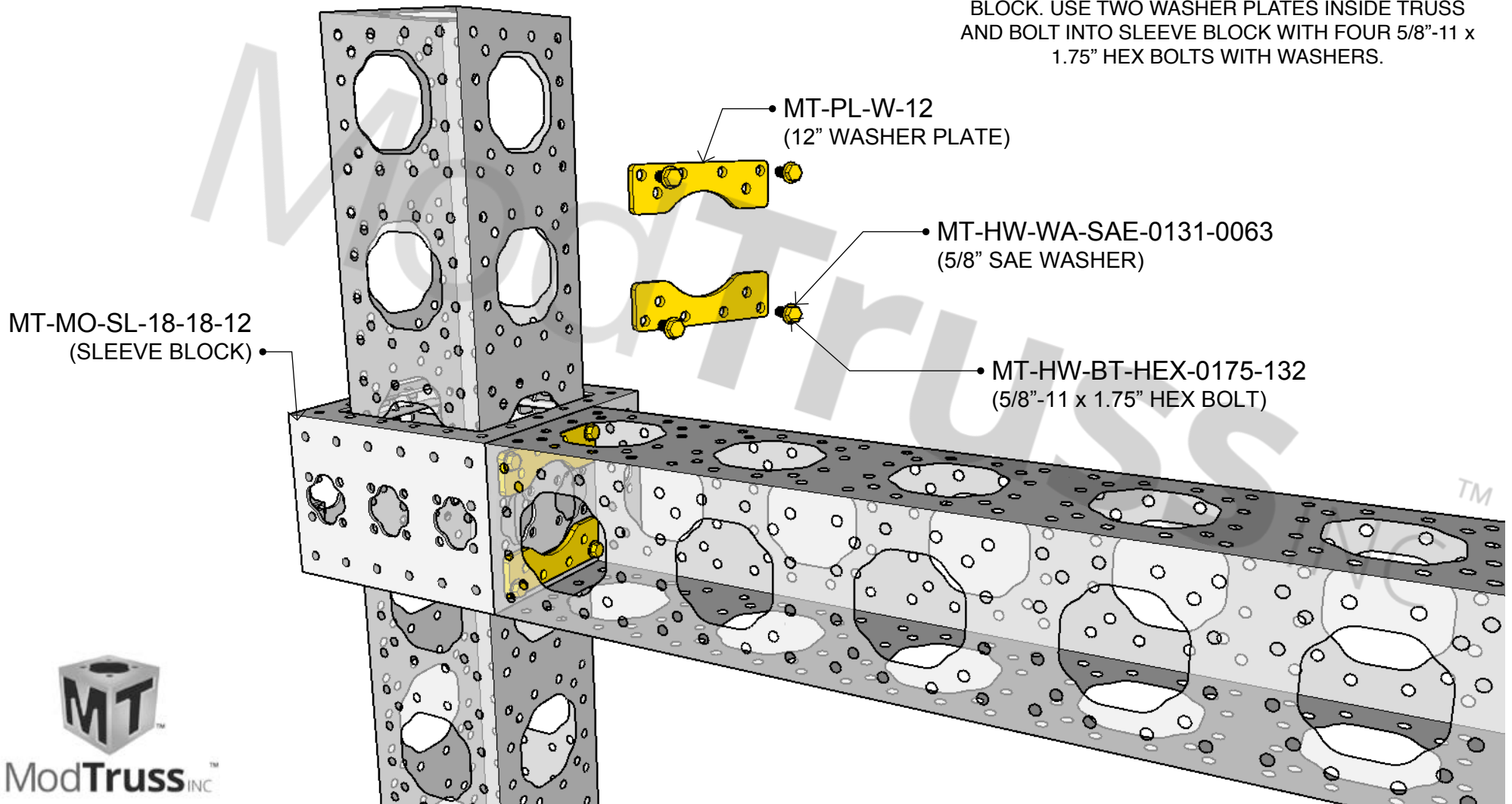
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## HARDWARE PER CONNECTION

- [1] MT-MO-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)

### \*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 1.75" HEX BOLTS WITH WASHERS.



# DECORATIVE GUARDRAIL 12" TRUSS

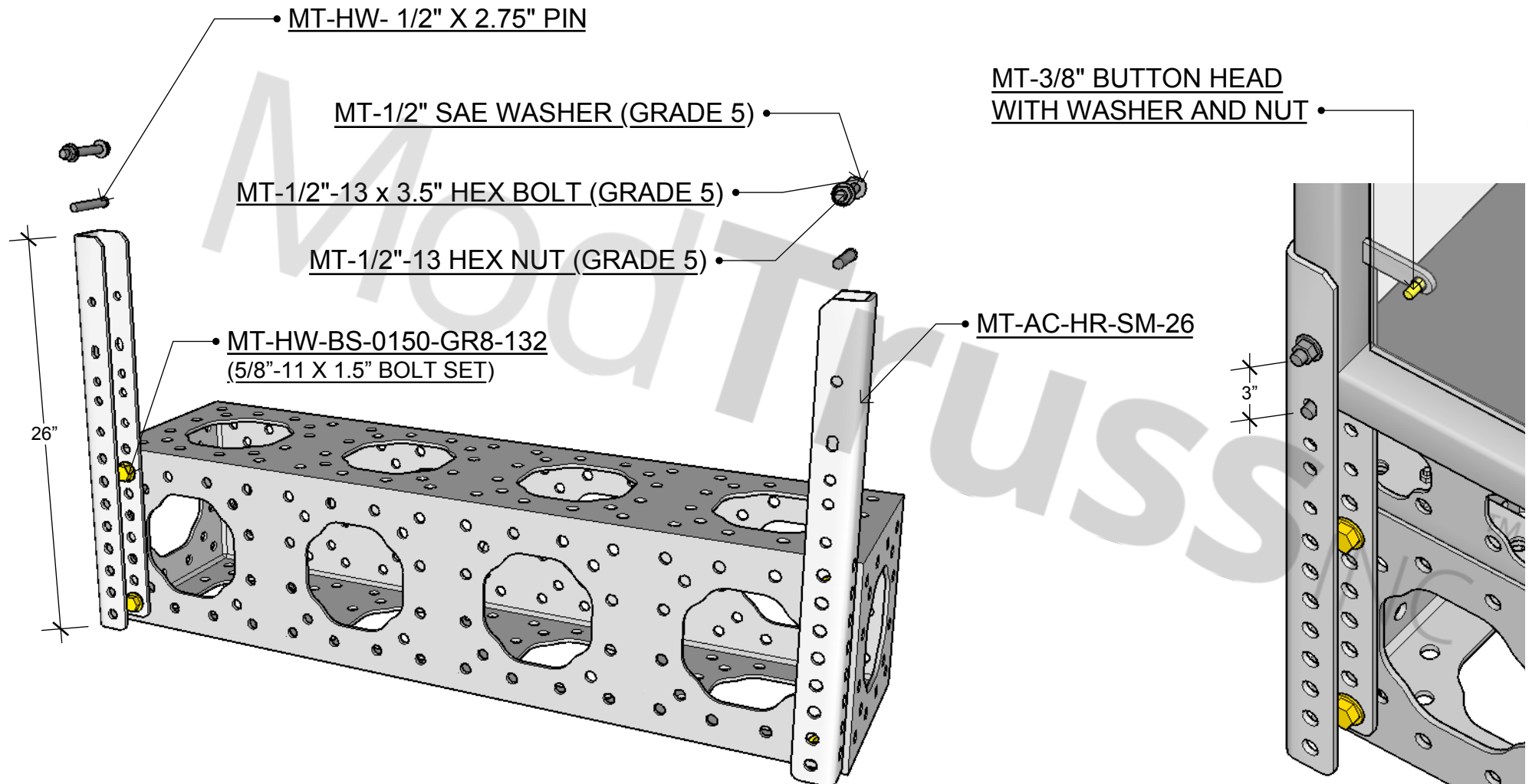
\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

**\*NOTE:**

WHEN MOUNTING DECORATIVE GUARDRAIL SIDE MOUNTS TO 12" TRUSS, USE TWO 5/8"-11 X 1.5" OR 2" BOLT SETS 9" CENTER TO CENTER SO THE SIDE MOUNT BRACKET IS FLUSH TO THE BOTTOM OF THE 12" TRUSS AS SHOWN. **WASHER PLATES ARE NOT NEEDED IN THIS CONNECTION.**

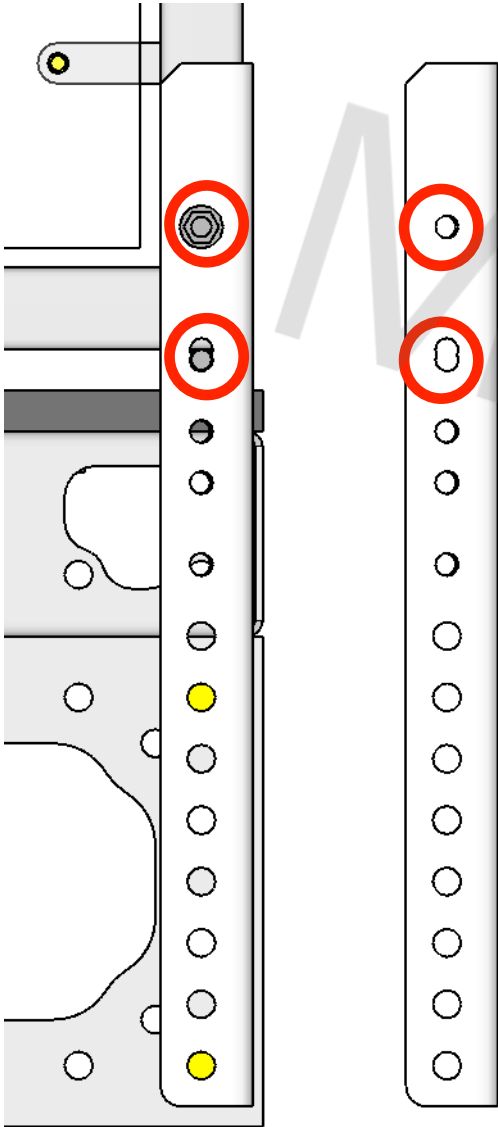
PLACE THE 1/2" X 2.75" PIN IN THE DESIRED 1/2" HOLE IN THE BRACKET FOR THE DECORATIVE PANEL TO REST ON WHEN DROPPED INTO PLACE. ONCE THE PANEL IS IN PLACE THROUGH BOLT USING A 1/2"-13 X 3.5" BOLT SET BOLTING THROUGH THE PANEL AND BRACKET.



# DECORATIVE GUARDRAIL

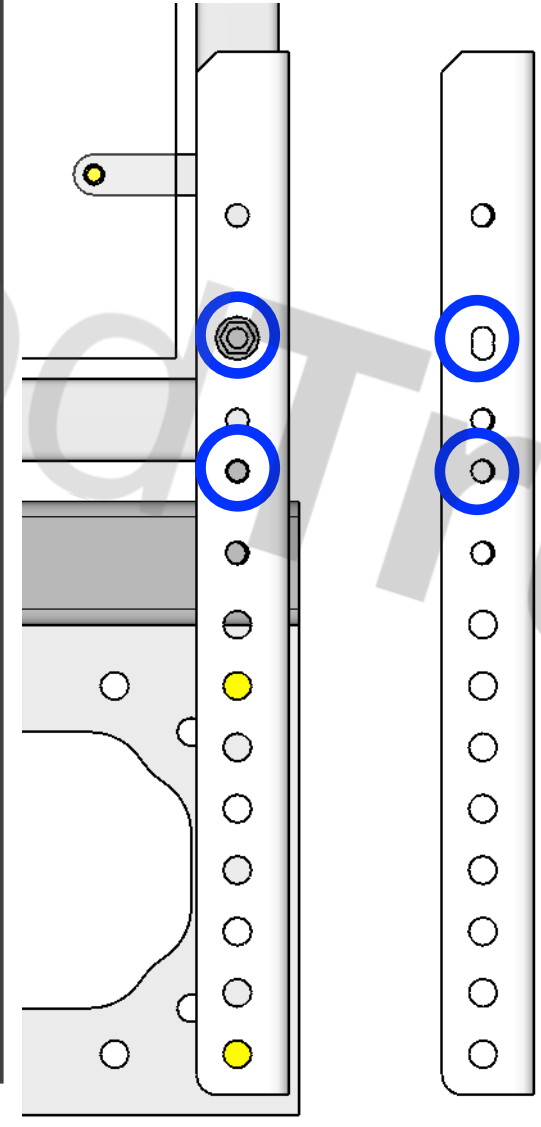
## 6" DECK

1/2" PIN IN BOTTOM OF SLOTTED HOLE  
1/2"-13 THROUGH BOLT IN TOP HOLE THROUGH PANEL



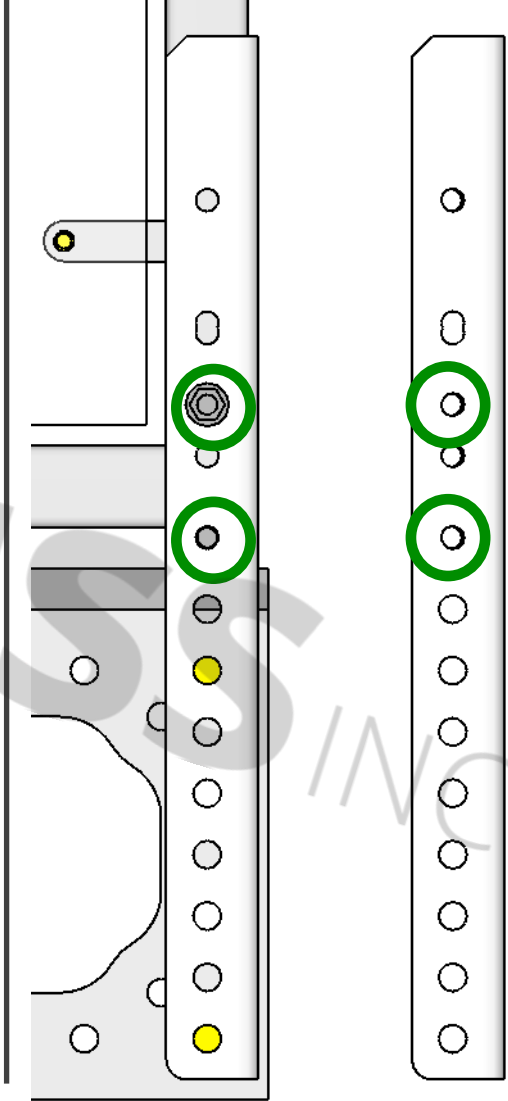
## 3" DECK

1/2" PIN IN SECOND FROM THE BOTTOM HOLE  
1/2"-13 THROUGH BOLT IN TOP OF SLOT THROUGH PANEL



## 1" DECK

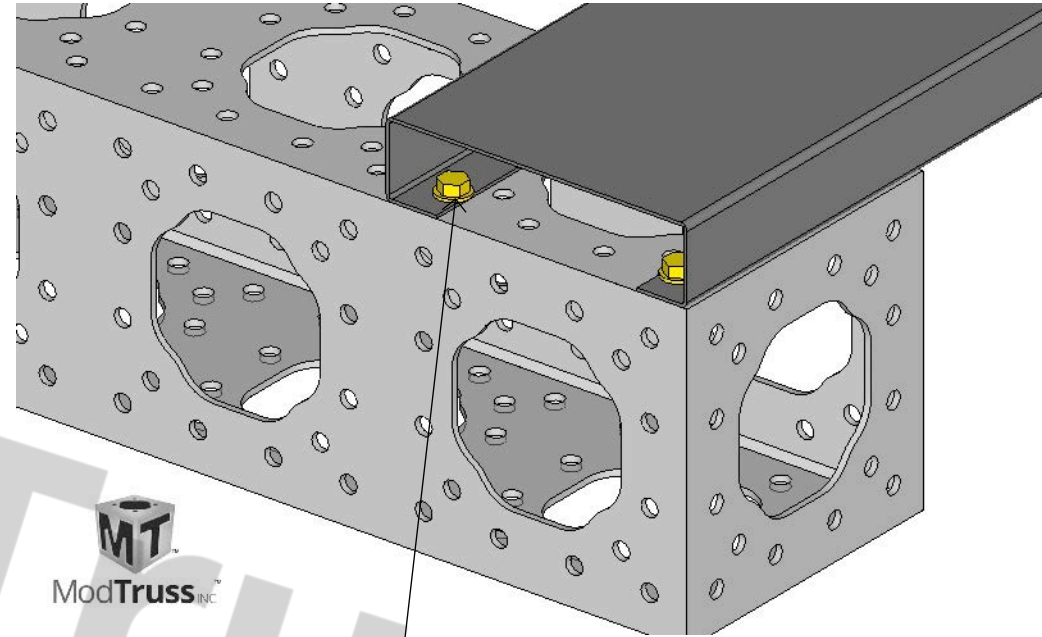
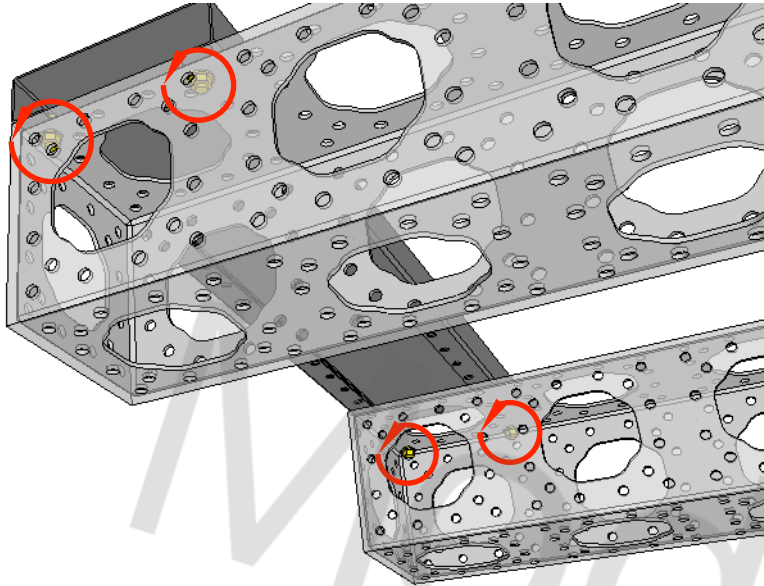
1/2" PIN IN BOTTOM HOLE  
1/2"-13 THROUGH BOLT IN THIRD HOLE FROM THE BOTTOM THROUGH PANEL



# 3" x 12" STEEL MODPLANK TO TRUSS

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs



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

## 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 OUTER MOST CORNERS POSSIBLE.

# LIGHT RIGGING WITH T SLOT PIPE

\* ALL HARDWARE TO BE GRADE 8.

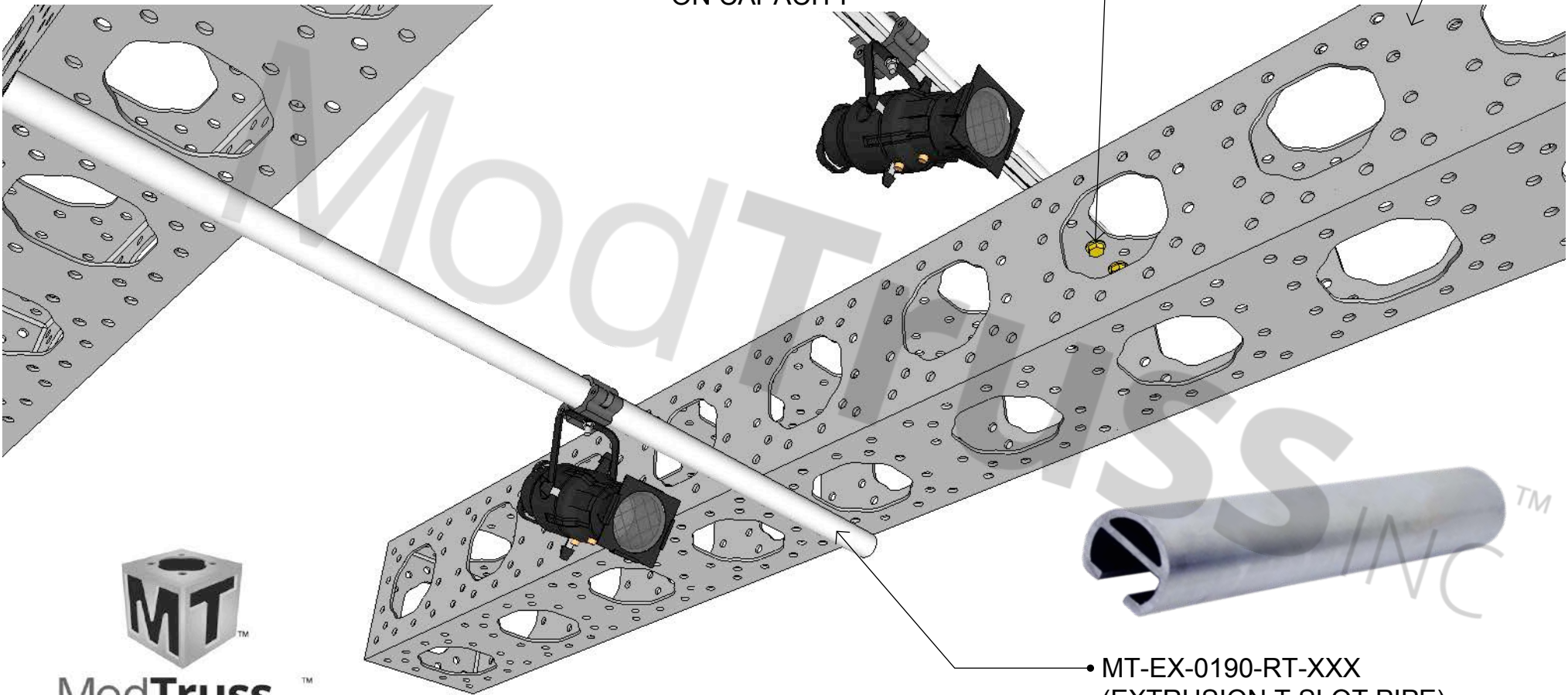
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs



BOLT USING NUT BAR INTO PIPE T SLOT.

T SLOT PIPE CAN BE BOLTED TO ALL MT SERIES TRUSS AND EXTRUSION. (12" TRUSS SHOWN)

WASHER PLATES MAY BE NEEDED BASED ON CAPACITY



MT-EX-0190-RT-XXX  
(EXTRUSION T SLOT PIPE)



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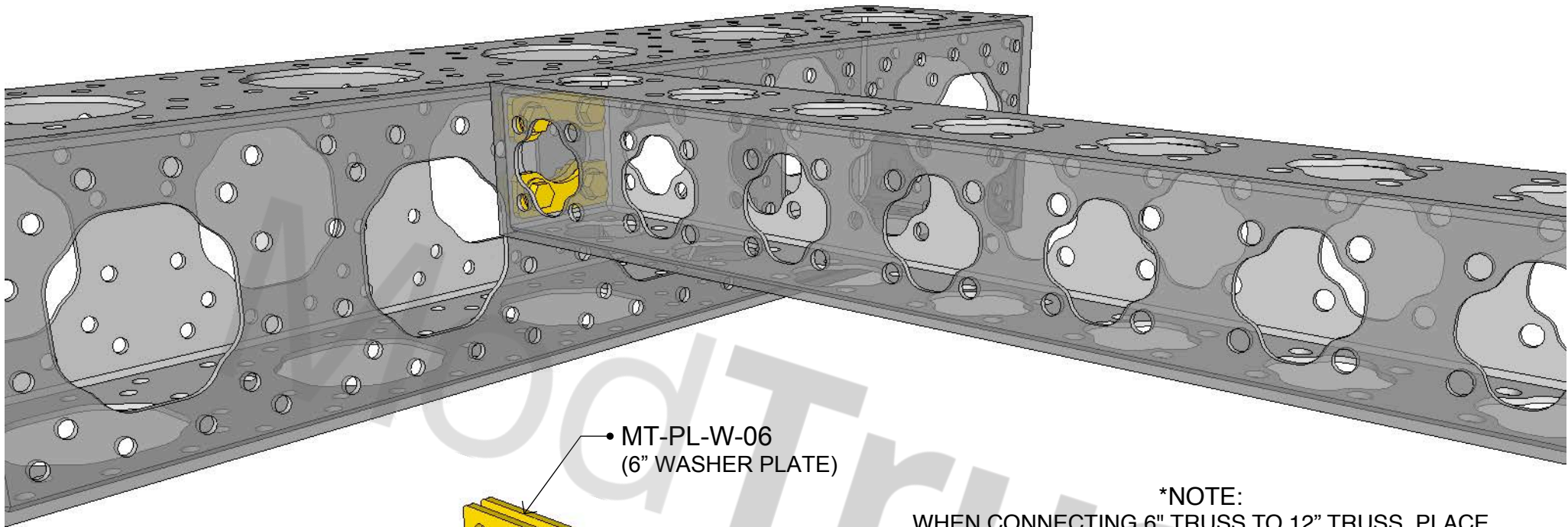
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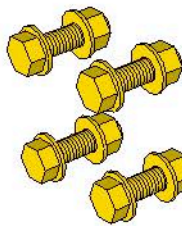
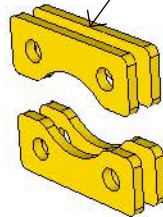
# 6" TRUSS - 12" TRUSS

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs



• MT-PL-W-06  
(6" WASHER PLATE)



• 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 EACH MEMBER  
(FOUR WASHER PLATES TOTAL PER CONNECTION) IN  
THE HORIZONTAL ORIENTATION WITH FOUR, 5/8"-11 x  
2" BOLT SETS.

## HARDWARE PER CONNECTION

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

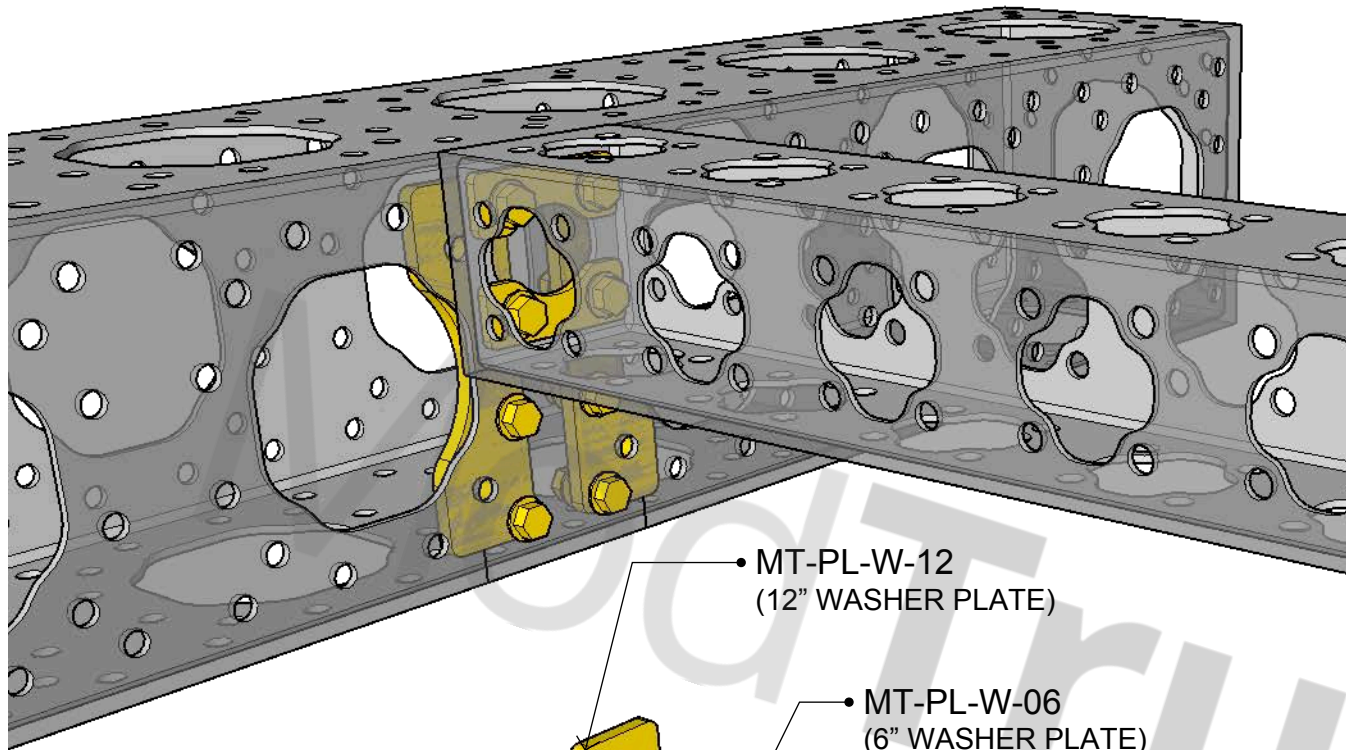


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# 6" TRUSS - 12" TRUSS

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs



**\*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.

• MT-PL-W-12  
(12" WASHER PLATE)

• MT-PL-W-06  
(6" WASHER PLATE)

## 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)

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



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REV DATE: 07/22/2024

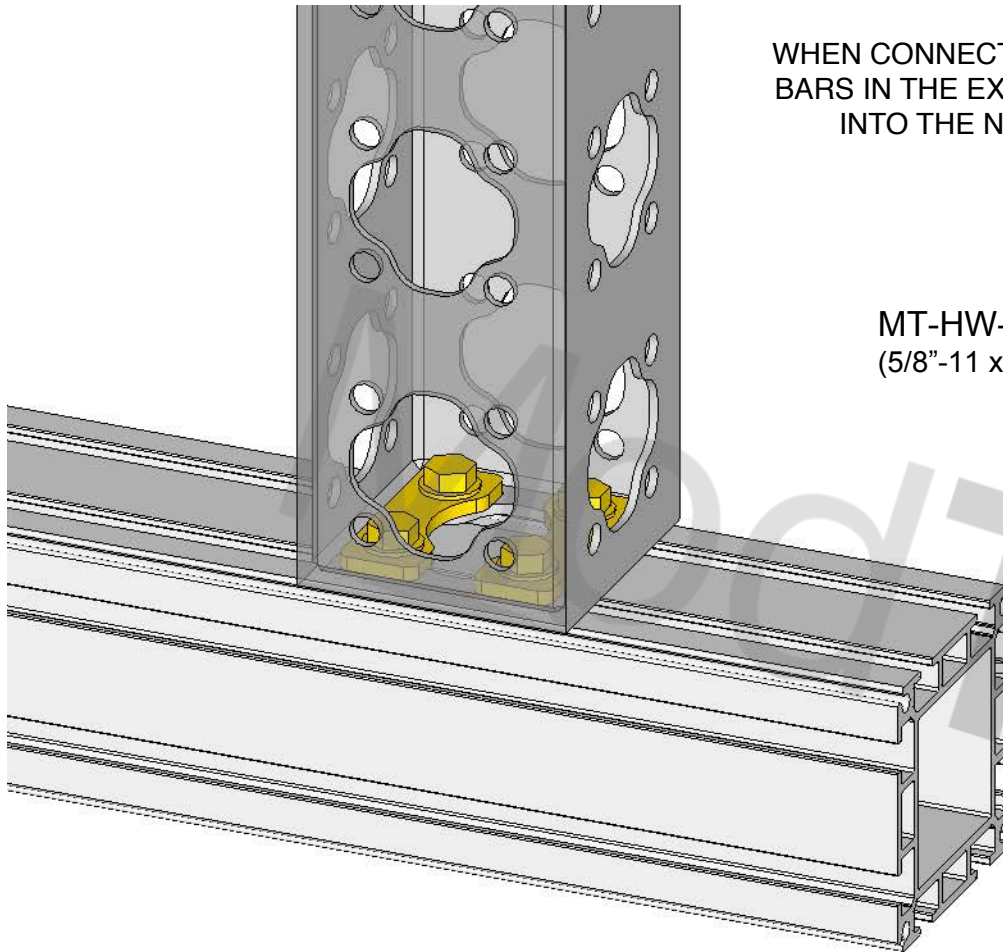
# 6" TRUSS - 6" EXTRUSION

\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

**\*NOTE:**

WHEN CONNECTION 6" TRUSS TO 6" EXTRUSION, PLACE TWO 5/8"-11 TWO HOLE NUT BARS IN THE EXTRUSION TRACK. BOLT THROUGH THE TRUSS AND WASHER PLATES INTO THE NUT BARS USING FOUR 5/8"-11 x 1.25" HEX BOLTS AND WASHERS.



MT-HW-BT-HEX-0125-132  
(5/8"-11 x 1.25" HEX BOLT)

• MT-HW-WA-SAE-0131-0063  
(5/8" SAE WASHER)

• MT-PL-W-06  
(6" WASHER PLATE)

• MT-HW-NB-000-132-02  
(5/8"-11 TWO HOLE NUT BAR)

## HARDWARE PER CONNECTION

- [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)



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# 12" TRUSS - 12" EXTRUSION

\* ALL HARDWARE TO BE GRADE 8.

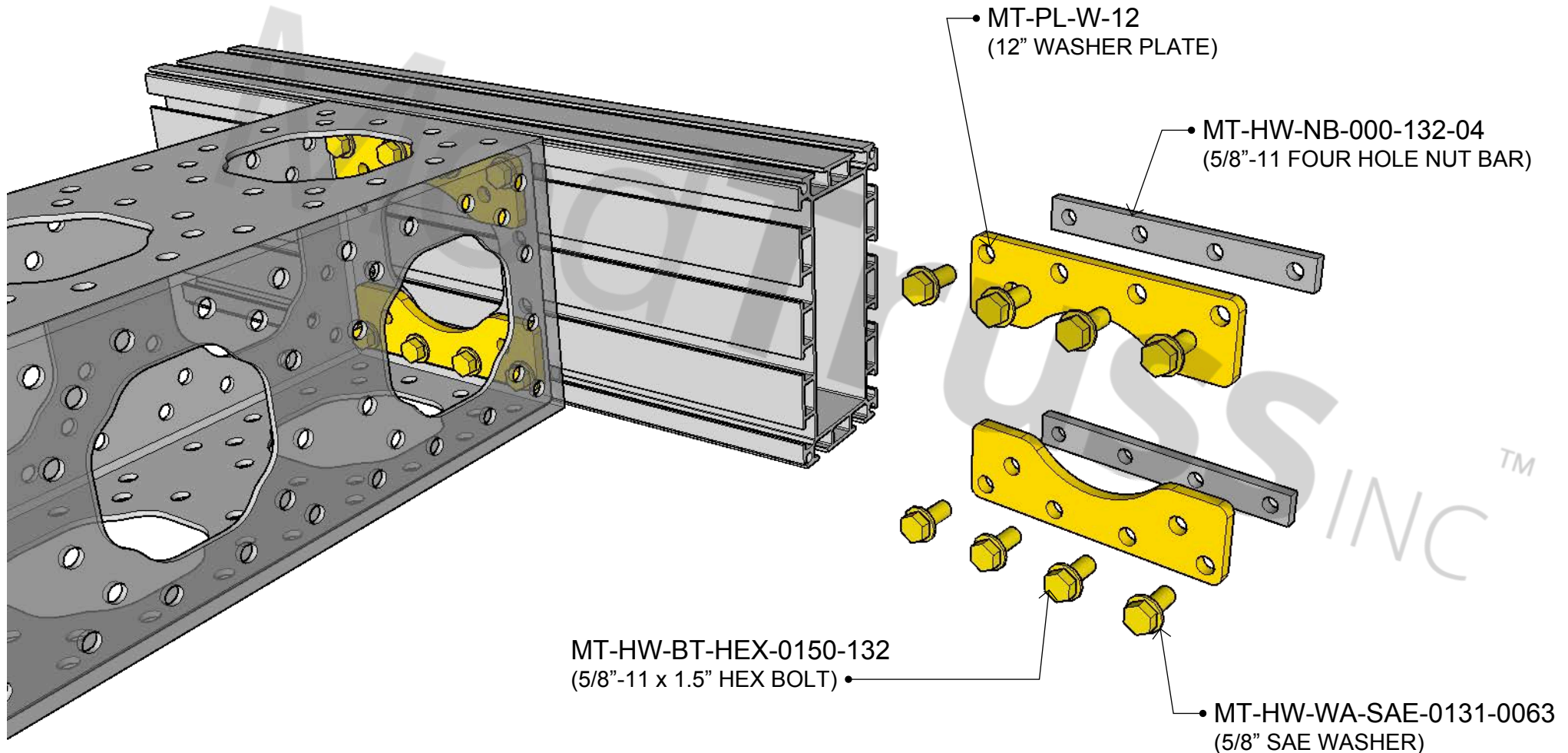
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## 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)

\* ALL HARDWARE TO BE GRADE 8.

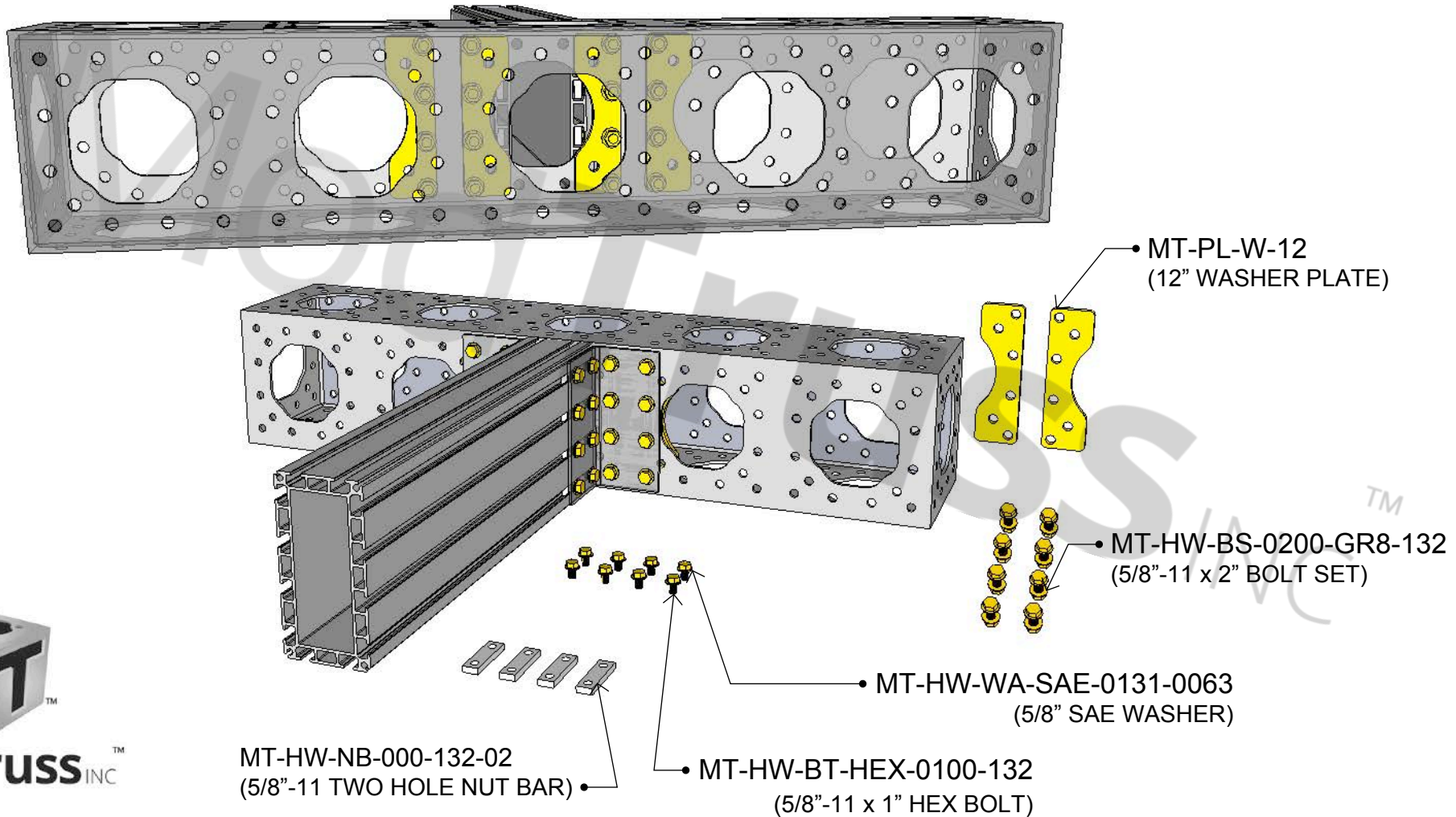
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## 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

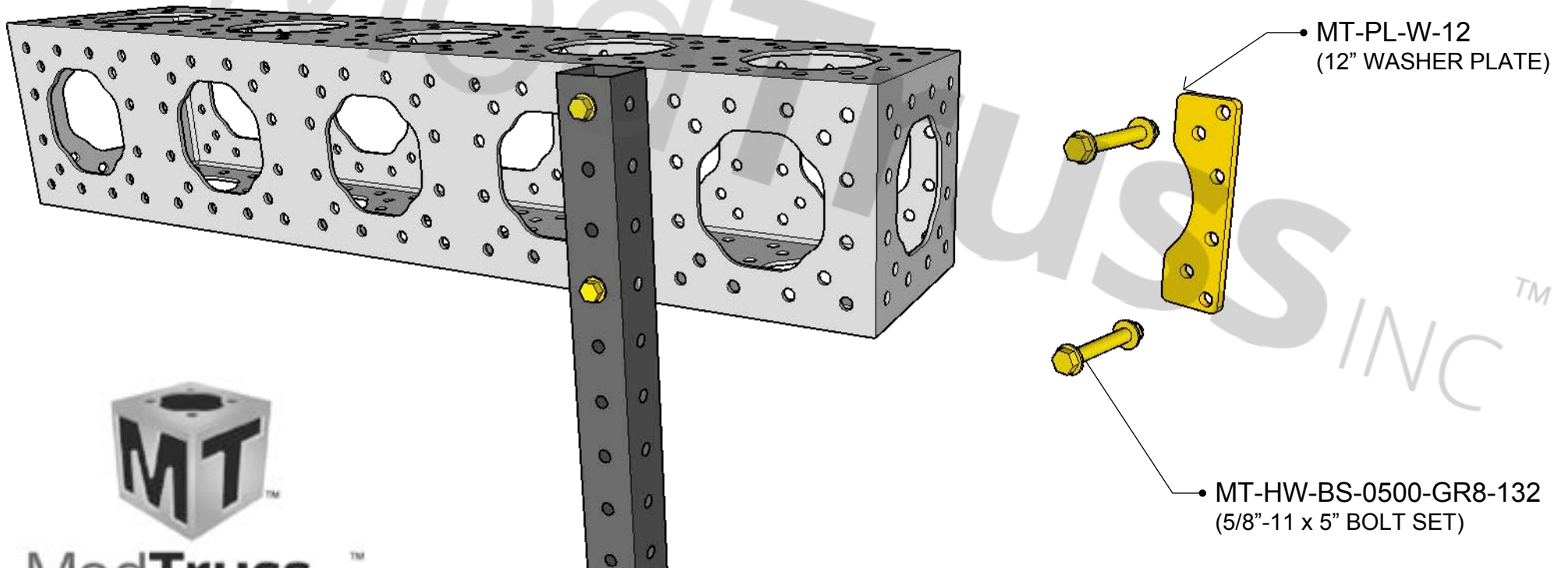
\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 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

\* ALL HARDWARE TO BE GRADE 8.

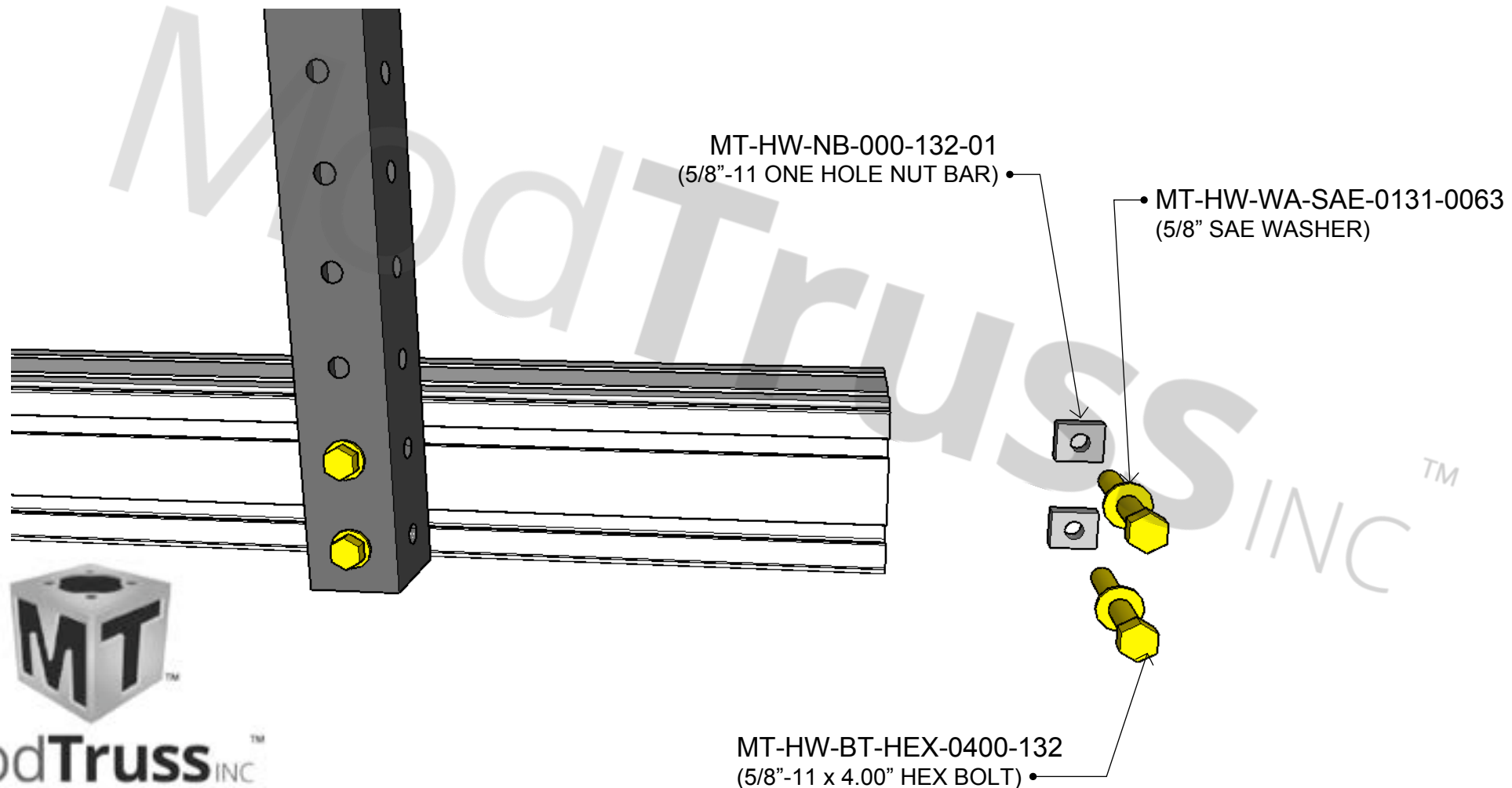
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

## 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 PLACE TWO 5/8"-11 ONE HOLE NUT BARS INTO EXTRUSION TRACK AT DESIRED LOCATION. USING TWO 5/8"-11 x 4" HEX BOLTS WITH WASHERS, BOLT THROUGH THE 3" TRUSS INTO THE TWO 5/8"-11 ONE HOLE NUT BARS.



# 3" TRUSS TO 6" TRUSS

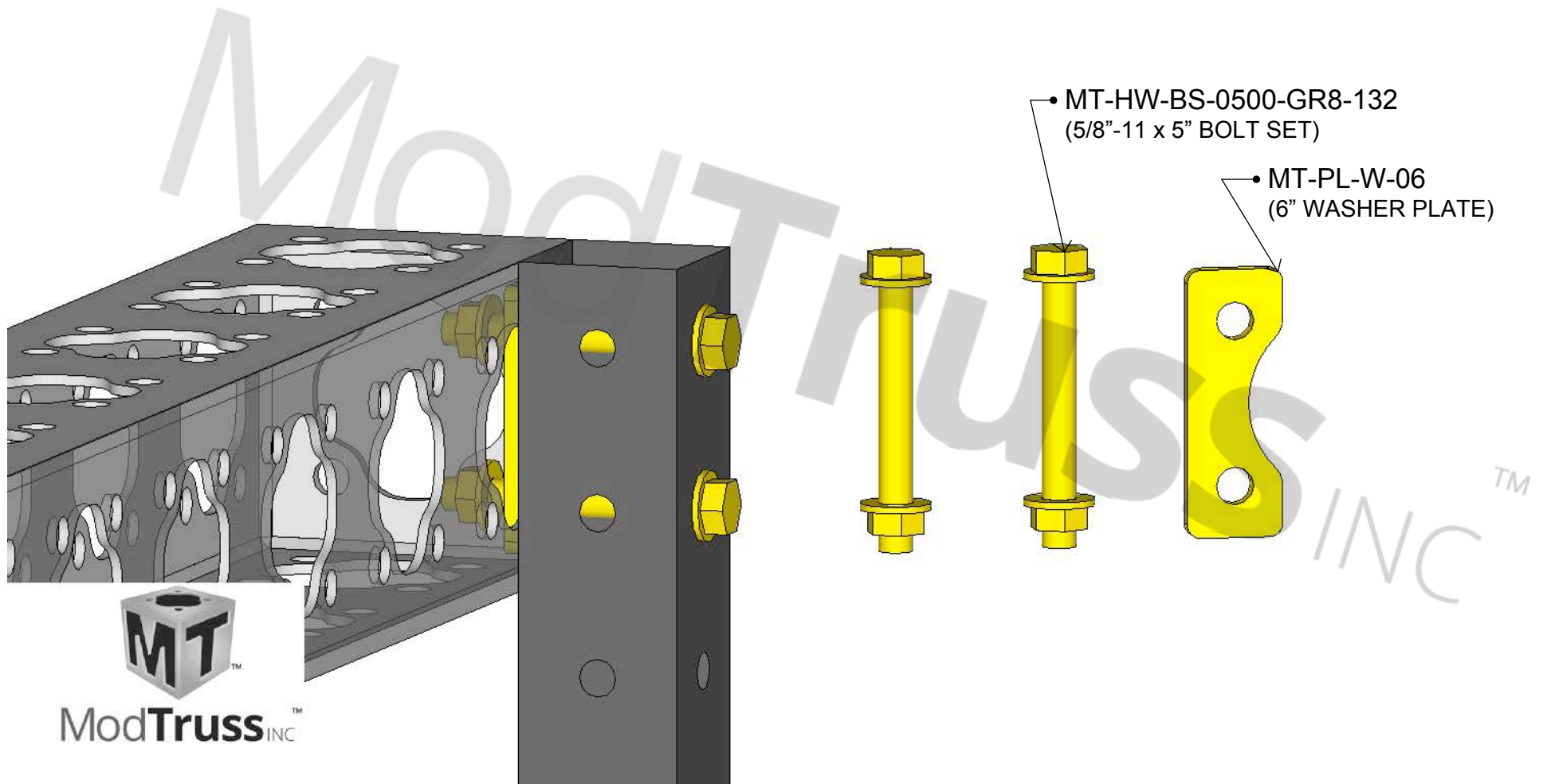
\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

## HARDWARE PER CONNECTION

- [1] MT-PL-W-06 (6" WASHER PLATES)
- [2] MT-HW-BS-0500-GR8-132 (5/8"-11 x 5" BOLT SETS)

\*NOTE:  
WHEN CONNECTING 3" TRUSS TO THE FACE OF 6" TRUSS PLACE ONE 6" WASHER PLATE INTO THE 6" TRUSS AT DESIRED LOCATION.  
USING TWO 5/8"-11 x 4" BOLT SETS, BOLT THROUGH THE 3" TRUSS AND 6" TRUSS WITH 6" WASHER PLATE.





# 3" TRUSS TO 3" EXTRUSION LAMINATED BEAM

\* ALL HARDWARE TO BE GRADE 8.

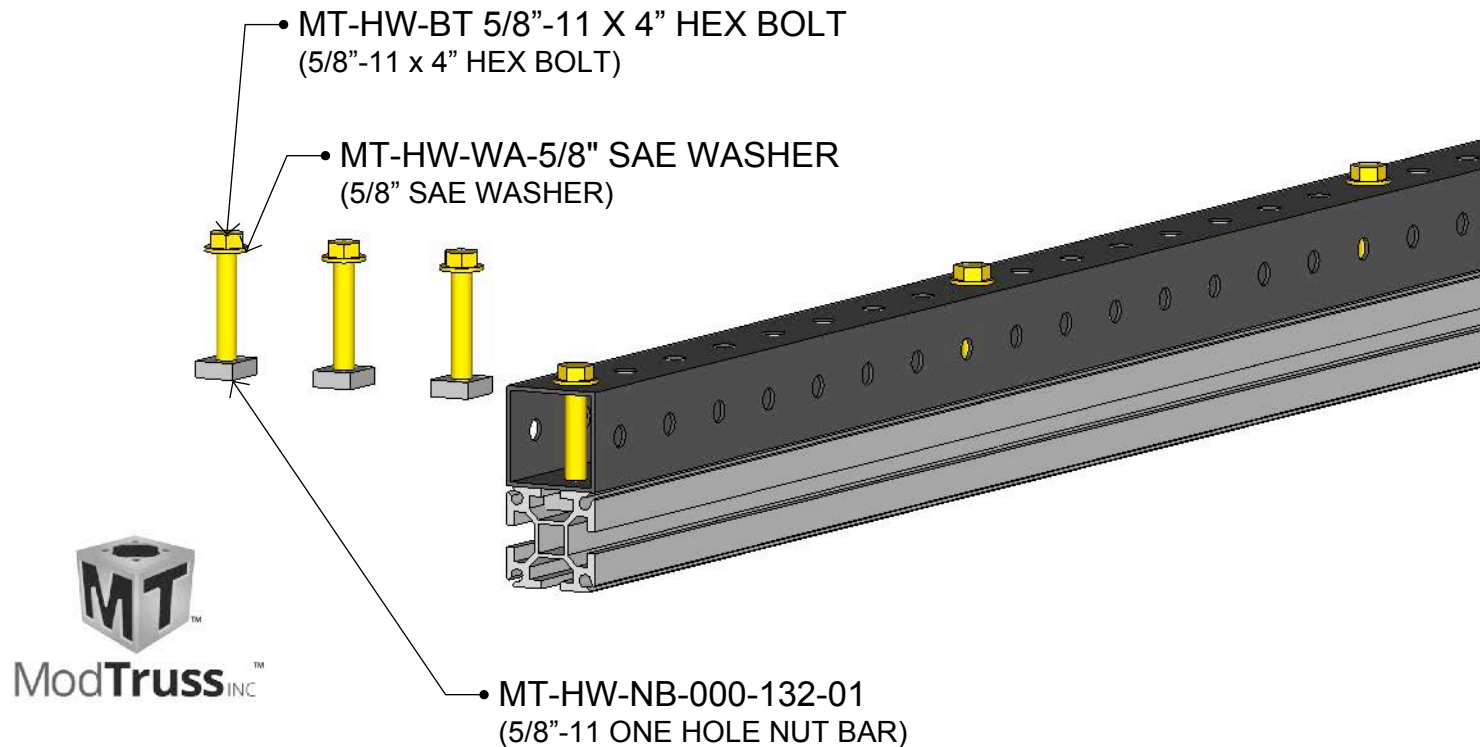
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 40-60 ft-lbs  
PERMANENT INSTALL: 60-90 ft-lbs

## HARDWARE PER CONNECTION

- [XXX] MT-5/8"-11 x 4" (5/8"-11 x 4" HEX BOLT)
- [XXX] MT-HW-WA-5/8" SAE WASHER (5/8" SAE WASHER)

## \*NOTE:

WHEN MAKING A 3" TRUSS TO 3" EXTRUSION LAMINATION, BOLT THROUGH THE 3" TRUSS INTO THE 3" EXTRUSION USING A 5/8"-11 x 3.5" BOLT, 5/8" SAE WASHER AND A 5/8"-11 ONE HOLE NUT BAR. EACH BOLTING LOCATION SHOULD BE 2' APART CENTER TO CENTER DOWN THE LAMINATION SPAN.



# 6" TRUSS WITH 3" SPACER

\* ALL HARDWARE TO BE GRADE 8.

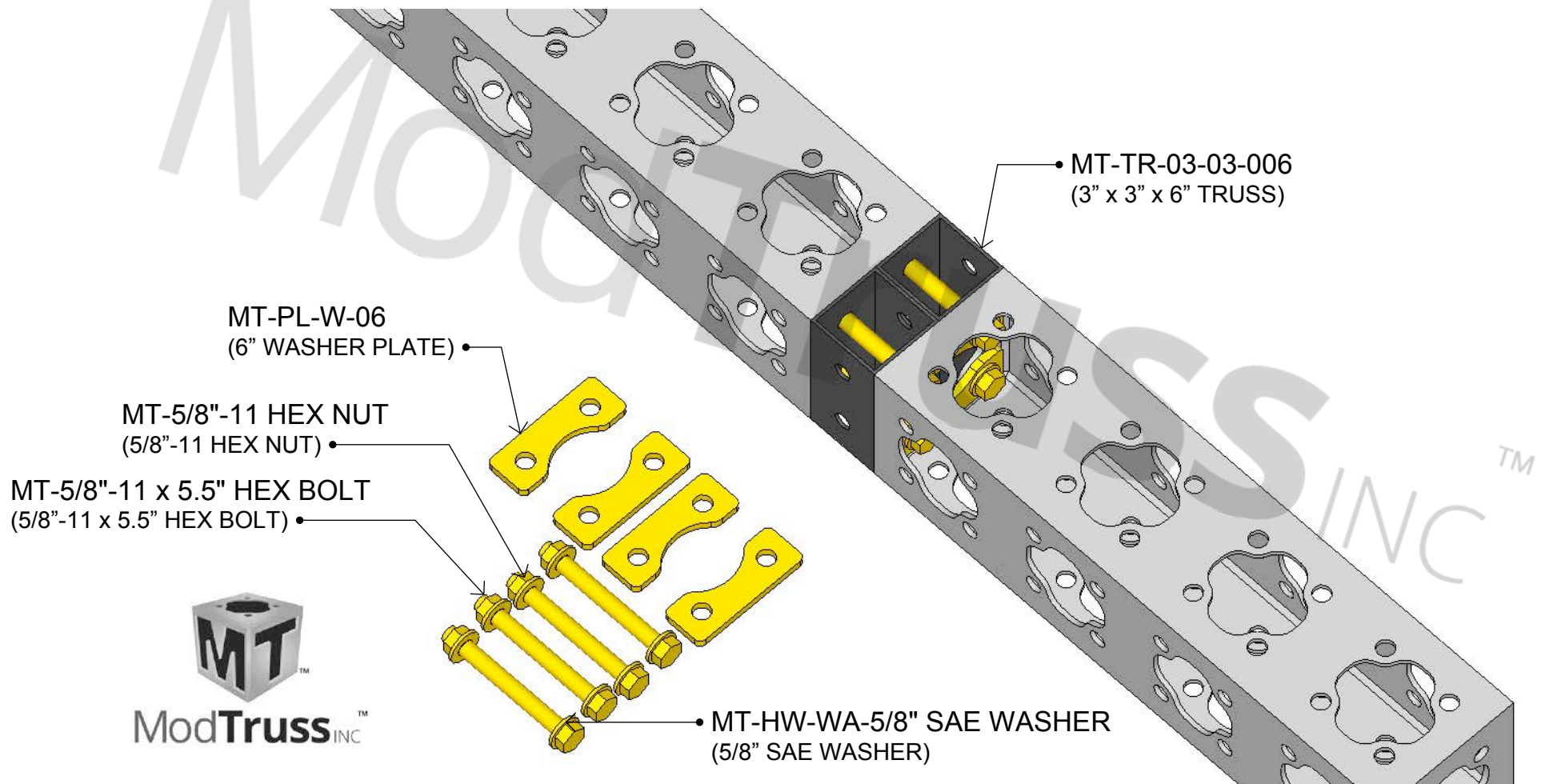
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## HARDWARE PER CONNECTION

- [4] MT-5/8"-11 x 5.5" HEX BOLT (5/8"-11 x 5.5" HEX BOLT)
- [4] MT-5/8"-11 HEX NUT (5/8"-11 HEX NUT)
- [6] MT-5/8" SAE WASHER (5/8" SAE WASHER)
- [2] MT-TR-03-03-006 (3" x 3" x 6" TRUSS)
- [4] MT-PL-W-06 (6" WASHER PLATES)

## \*NOTE:

WHEN USING 3" TRUSS AS A SPACER FOR 6" TRUSS, THERE ARE TWO POSSIBLE BOLTING PATTERS (SECOND OPTION ON NEXT PAGE). AS DEPICTED BELOW, USING FOUR 5/8"-11 x 4.5" BOLT SETS BOLT FROM INSIDE END OF 6" TRUSS THROUGH THE 3" TRUSS SPACER, AND INTO THE OTHER 6" TRUSS. DO THIS AT THE TOP AND BOTTOM OF EACH 3" TRUSS SPACER.



# 6" TRUSS WITH 3" SPACER

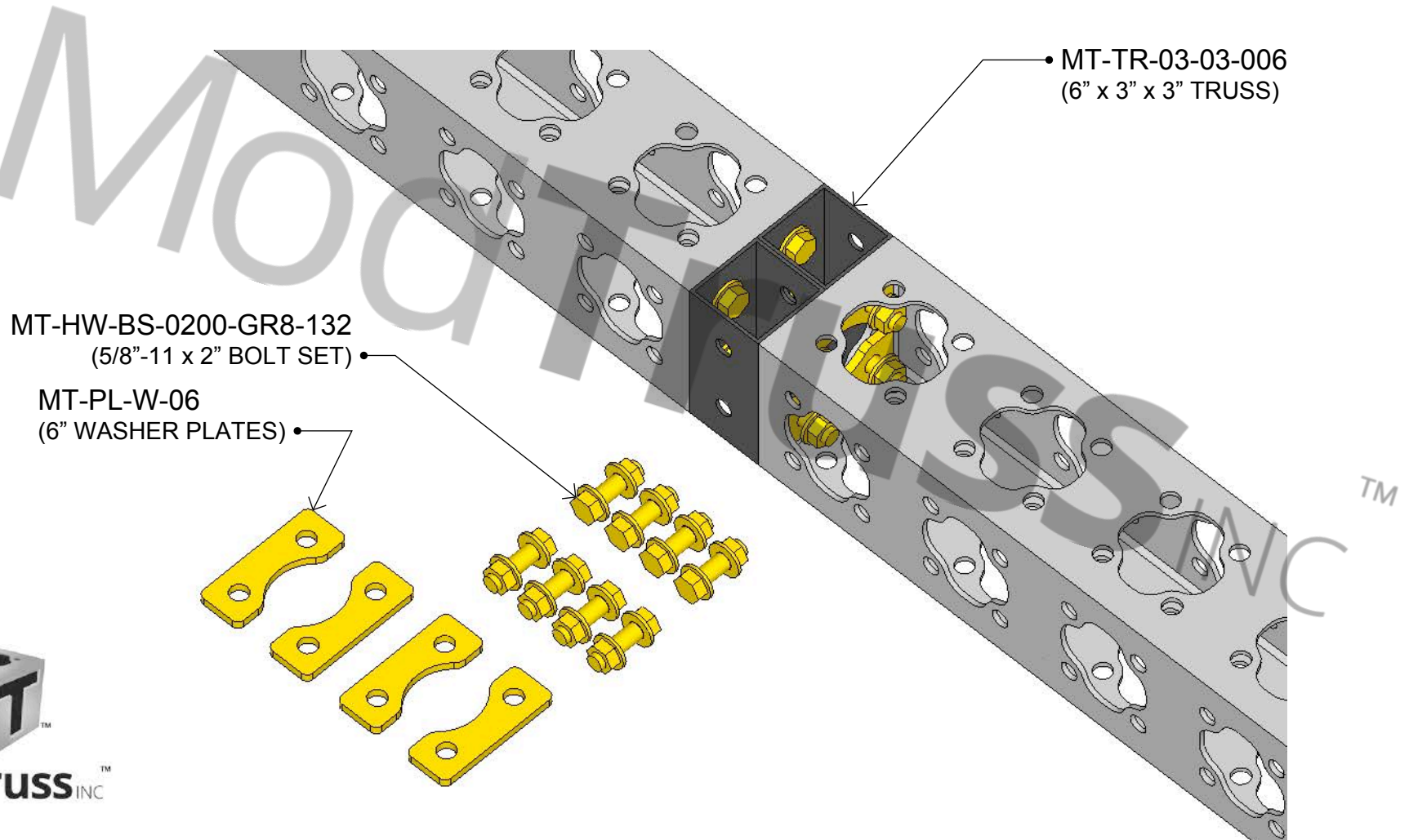
\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## HARDWARE PER CONNECTION

- [8] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" HEX BOLT)
- [2] MT-TR-03-03-006 (3" x 3" x 6" TRUSS)
- [4] MT-PL-W-06 (6" WASHER PLATES)

\*NOTE:  
ANOTHER WAY TO USE 3" TRUSS AS A SPACER FOR 6" TRUSS, IS  
DEPICTED BELOW. USING EIGHT 5/8"-11 x 2" BOLT SETS, BOLT  
FROM INSIDE END OF 6" TRUSS TO THE 3" TRUSS. DO THIS FOR  
BOTH ENDS OF 6" TRUSS.



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# 12" TRUSS WITH 3" SPACER

\* ALL HARDWARE TO BE GRADE 8.

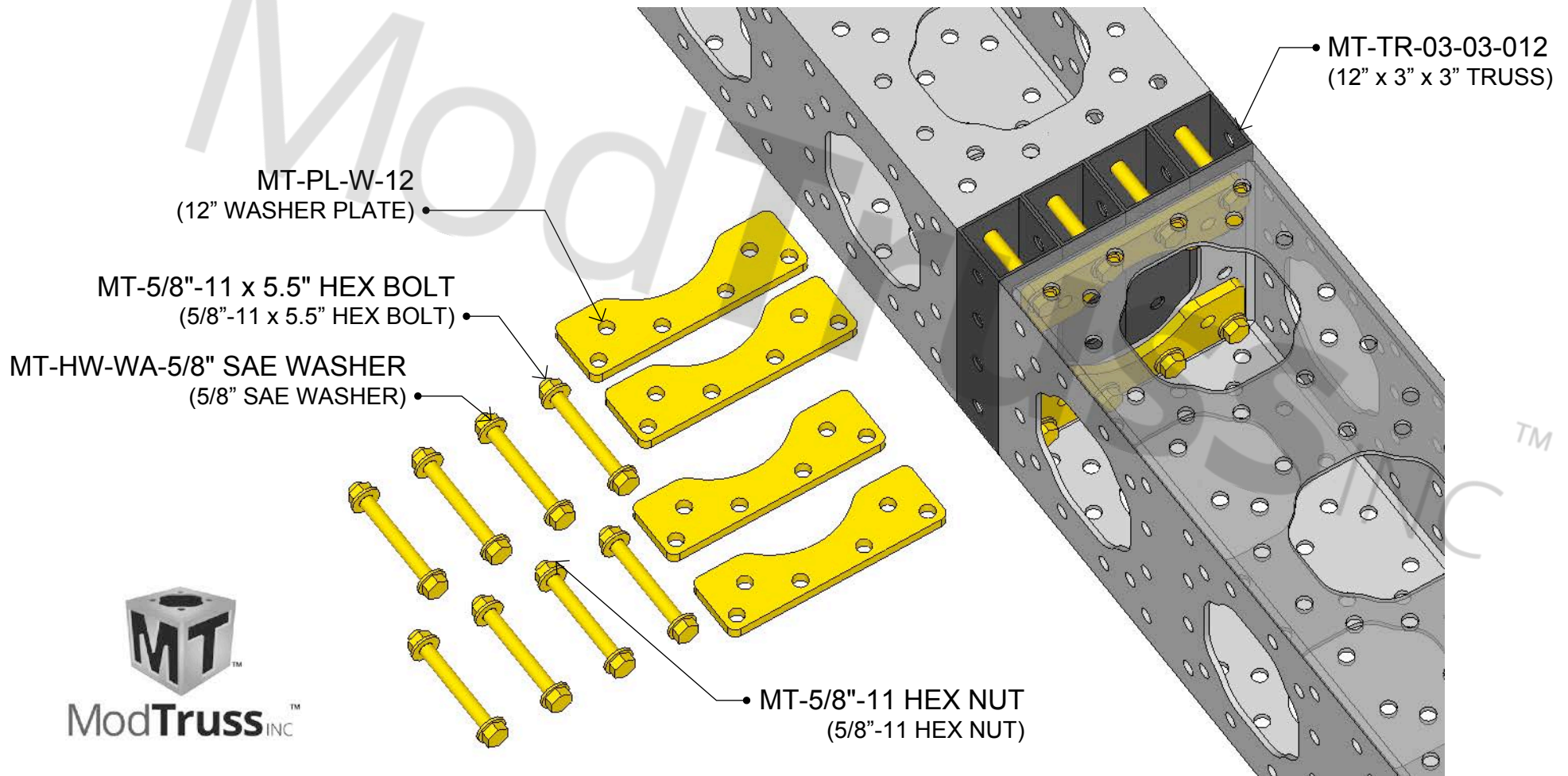
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## HARDWARE PER CONNECTION

- [8] MT-5/8"-11 x 5.5" HEX BOLT (5/8"-11 x 5.5" HEX BOLT)
- [8] MT-5/8"-11 HEX NUT (5/8"-11 HEX NUT)
- [16] MT-5/8" SAE WASHER (5/8" SAE WASHER)
- [4] MT-TR-03-03-006 (3" x 3" x 6" TRUSS)
- [4] MT-PL-W-012 (12" WASHER PLATES)

## \*NOTE:

WHEN USING 3" TRUSS AS A SPACER FOR 12" TRUSS, THERE ARE TWO POSSIBLE BOLTING PATTERS (SECOND OPTION ON NEXT PAGE). AS DEPICTED BELOW, USING EIGHT 5/8"-11 x 4.5" BOLT SETS BOLT FROM INSIDE END OF 12" TRUSS THROUGH THE 3" TRUSS SPACER, AND INTO THE OTHER 12" TRUSS. DO THIS AT THE TOP AND BOTTOM OF EACH 3" TRUSS SPACER.



# 12" TRUSS WITH 3" SPACER

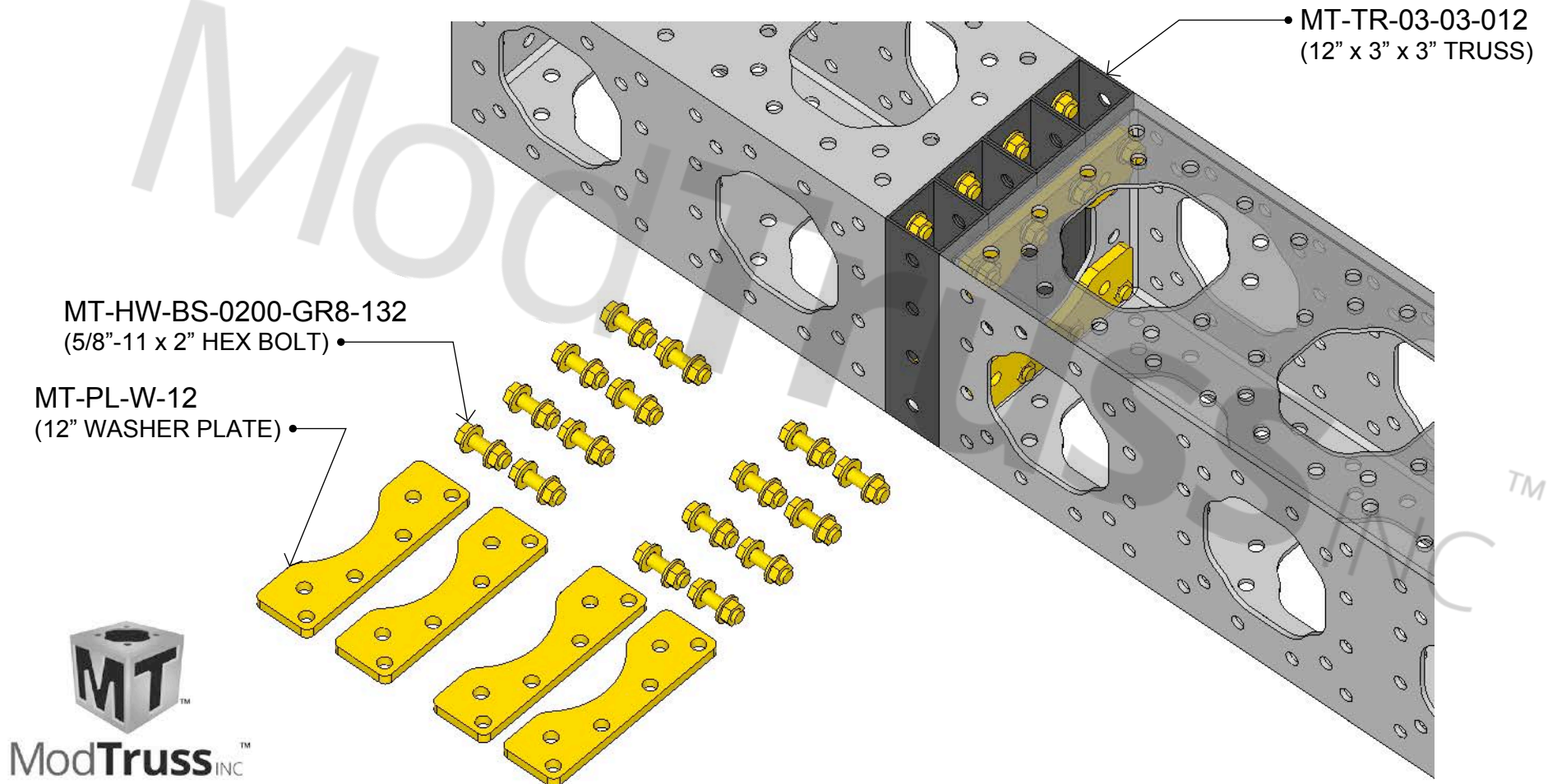
\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

## HARDWARE PER CONNECTION

- [16] MT-HW-BS-0200-GR8-132 (5/8"-11 x 2" HEX BOLT)
- [4] MT-TR-03-03-012 (3" x 3" x 6" TRUSS)
- [4] MT-PL-W-12 (12" WASHER PLATE)

\*NOTE:  
ANOTHER WAY TO USE 3" TRUSS AS A SPACER FOR 12" TRUSS, IS DEPICTED BELOW. USING SIXTEEN 5/8"-11 x 2" BOLT SETS, BOLT FROM INSIDE END OF 12" TRUSS TO THE 3" TRUSS. DO THIS FOR BOTH ENDS OF 12" TRUSS AT THE TOP AND BOTTOM OF EACH 3" TRUSS SPACER.



# 12" MODTRUSS TO 12" PLATED TRUSS

\* ALL HARDWARE TO BE GRADE 8.

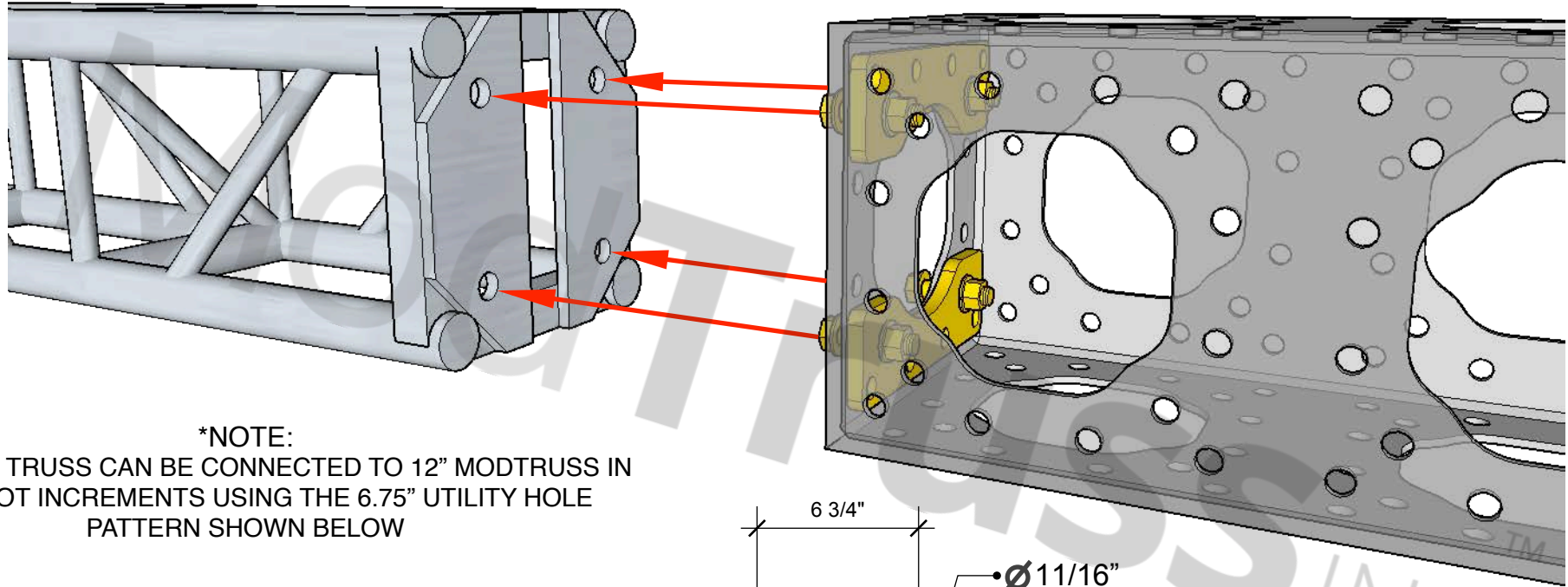
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

**\*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.

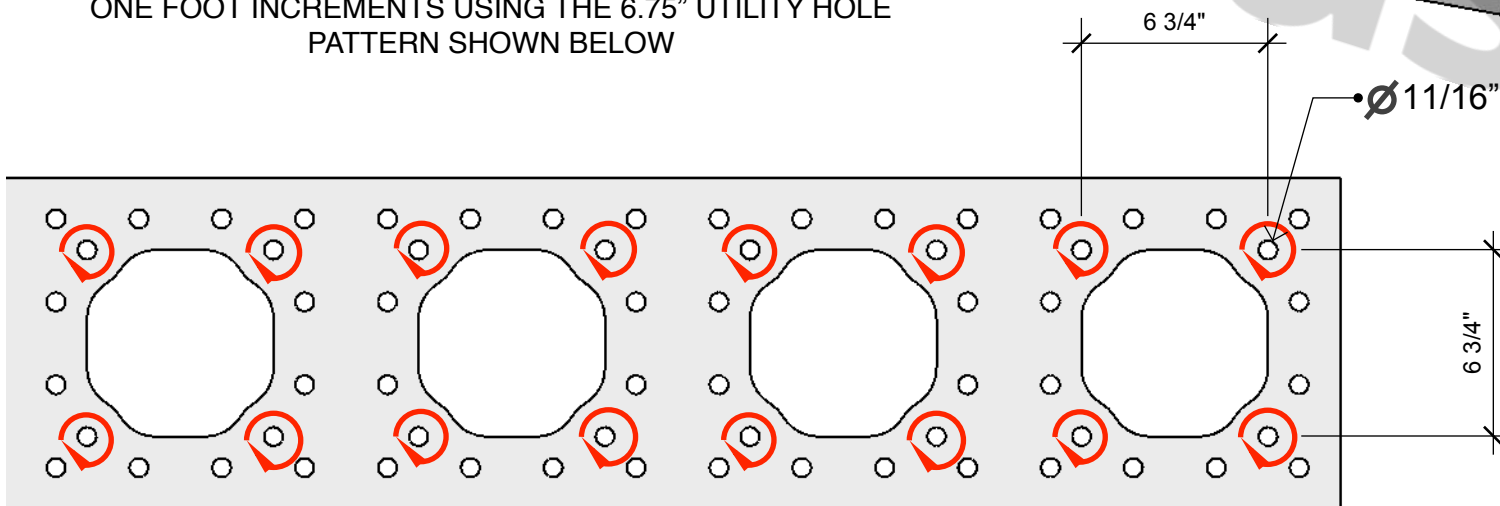
**HARDWARE PER CONNECTION**

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



**\*NOTE:**

12" PLATED TRUSS CAN BE CONNECTED TO 12" MODTRUSS IN ONE FOOT INCREMENTS USING THE 6.75" UTILITY HOLE PATTERN SHOWN BELOW



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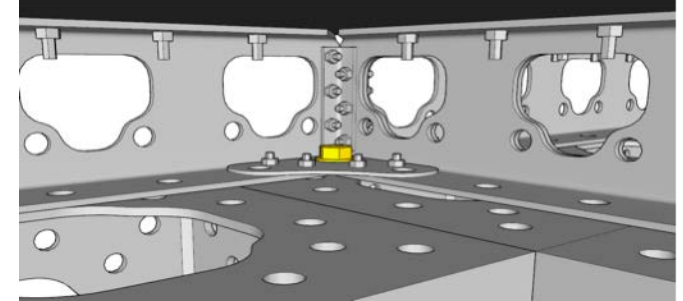
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# MODPANELS

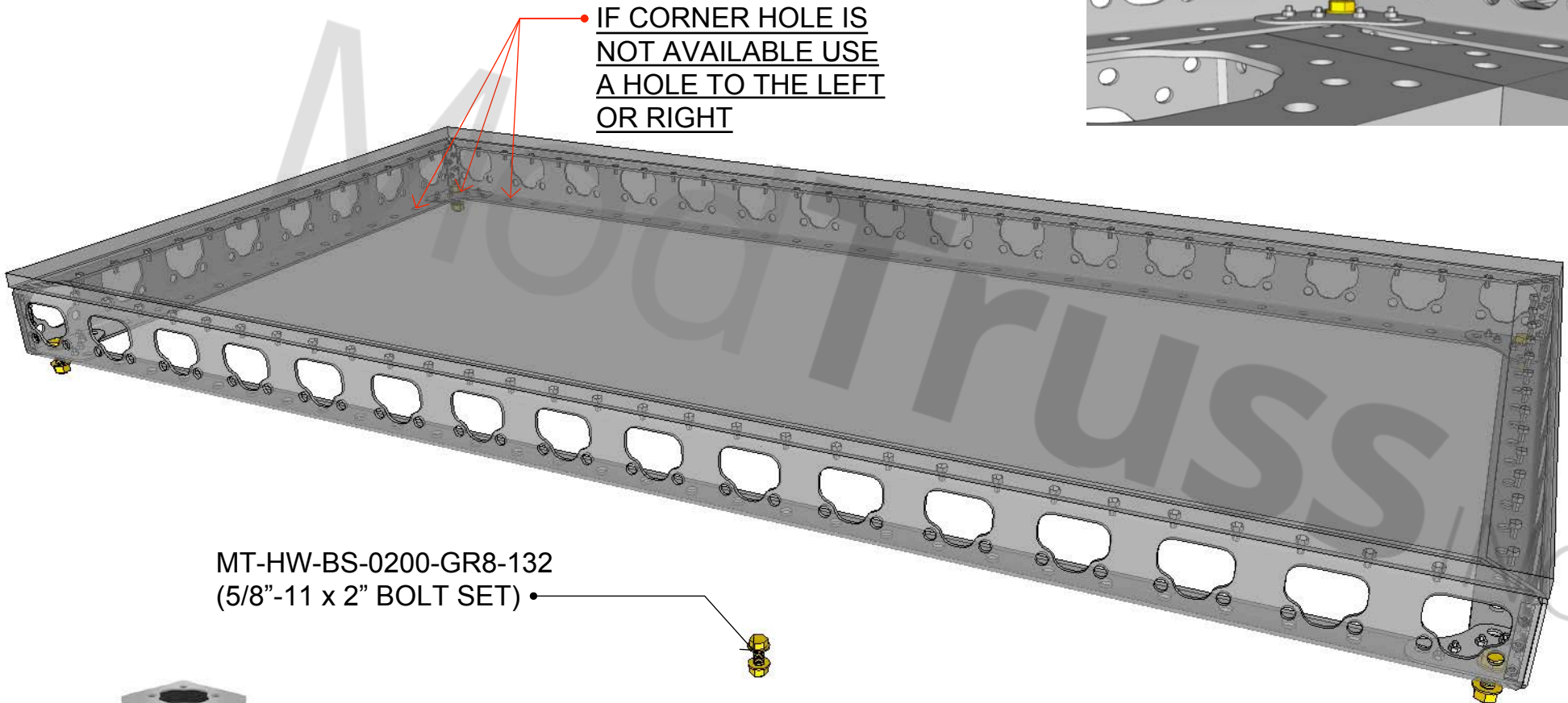
\* ALL HARDWARE TO BE GRADE 8.

RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

WHEN INSTALLING MODPANELS, PLACE A 5/8"-11 x 2" OR 1.5" BOLT SET IN THE OUTER MOST CORNERS. THE BOLT SET CAN BE PLACED THROUGH THE CORNER MOUNTING BRACKET OR IF BOLT COLLISION OCCURS WITH A CONNECTION BELOW THROUGH THE FRAME RAIL SIDES OF THE MODPANEL AS CLOSE TO THE CORNERS AS POSSIBLE .



IF CORNER HOLE IS  
NOT AVAILABLE USE  
A HOLE TO THE LEFT  
OR RIGHT



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



HARDWARE PER CONNECTION

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



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# T SLOT EXTRUSION PIPE END TO END

\* ALL HARDWARE TO BE GRADE 8.

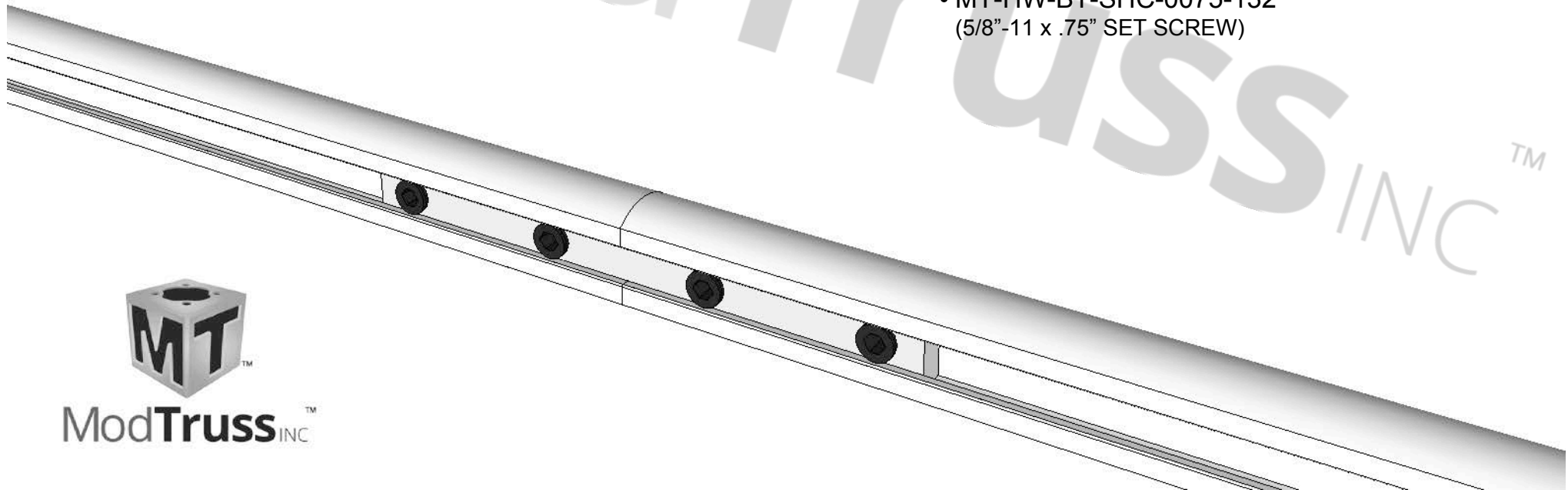
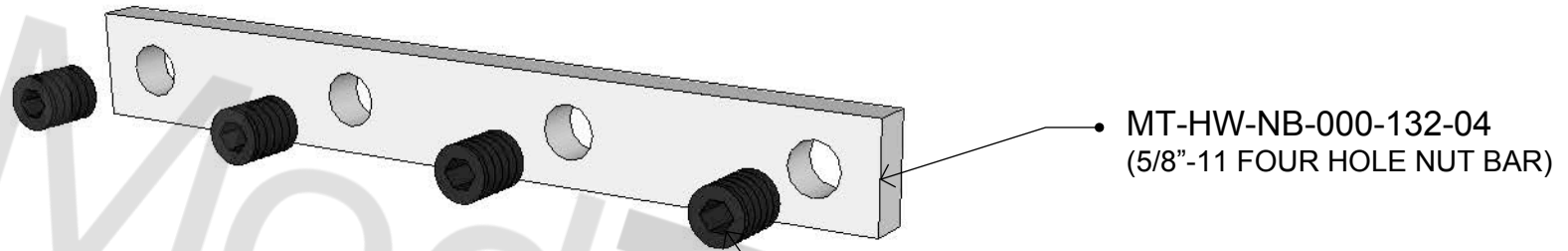
RECOMMENDED TORQUE VALUE:  
TEMPORARY INSTALL: 60-80 ft-lbs  
PERMANENT INSTALL: 150 ft-lbs

**\*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.

## HARDWARE PER CONNECTION

- [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)



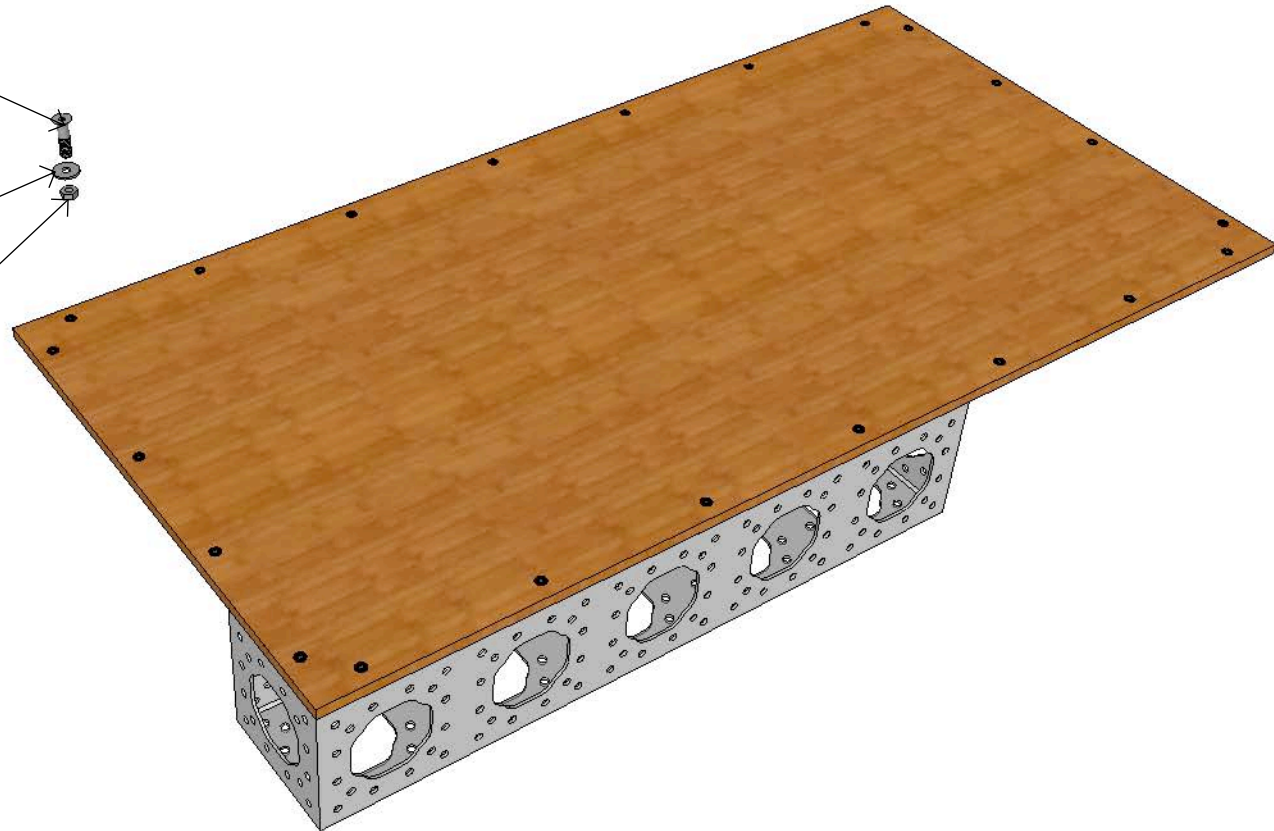
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# PLYWOOD TO TRUSS

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.

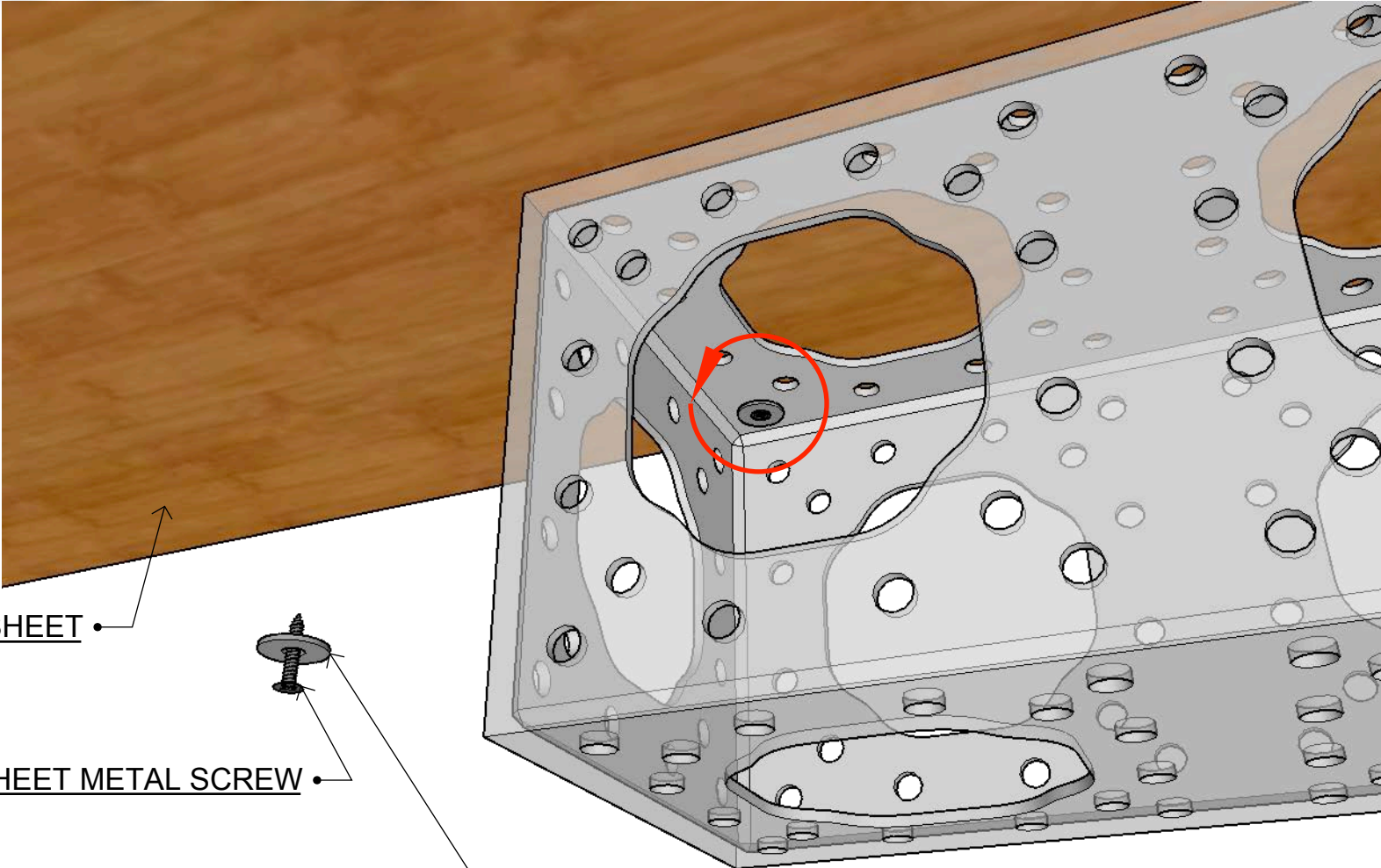
5/16-18 FLAT HEAD  
5/16 OVERSIZED WASHER  
5/16-18 HEX NUT



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IF JOIST HANGERS ARE USED, SCREW THROUGH THE PLYWOOD INTO THE JOIST HANGER WITH WOOD OR DECK SCREWS MAKING SURE THE HEADS ARE FLUSH TO THE WOOD DECK TO AVOID A TRIPPING HAZARD.

# PLYWOOD TO TRUSS



PLYWOOD OR SHEET

WOOD SCREW OR SHEET METAL SCREW

OVERSIZED WASER (1.3" RECOMENDED OD)



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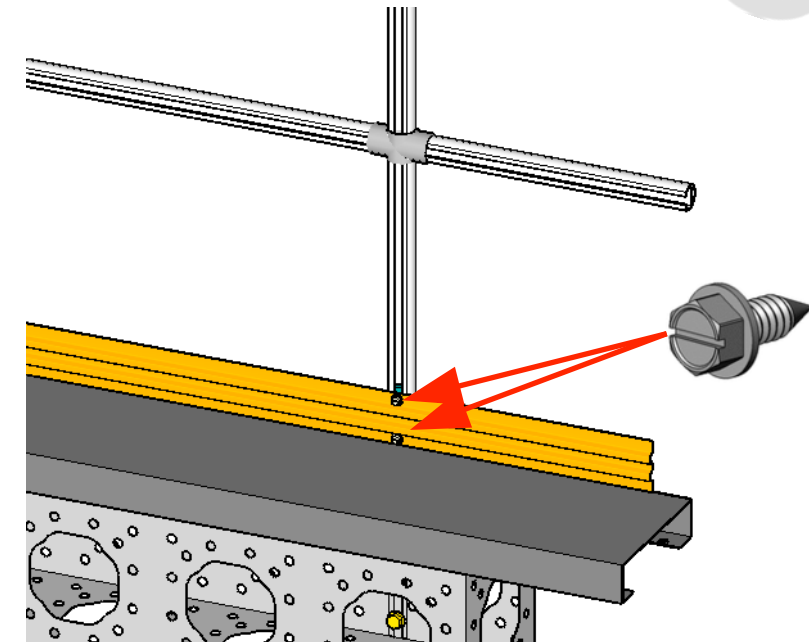
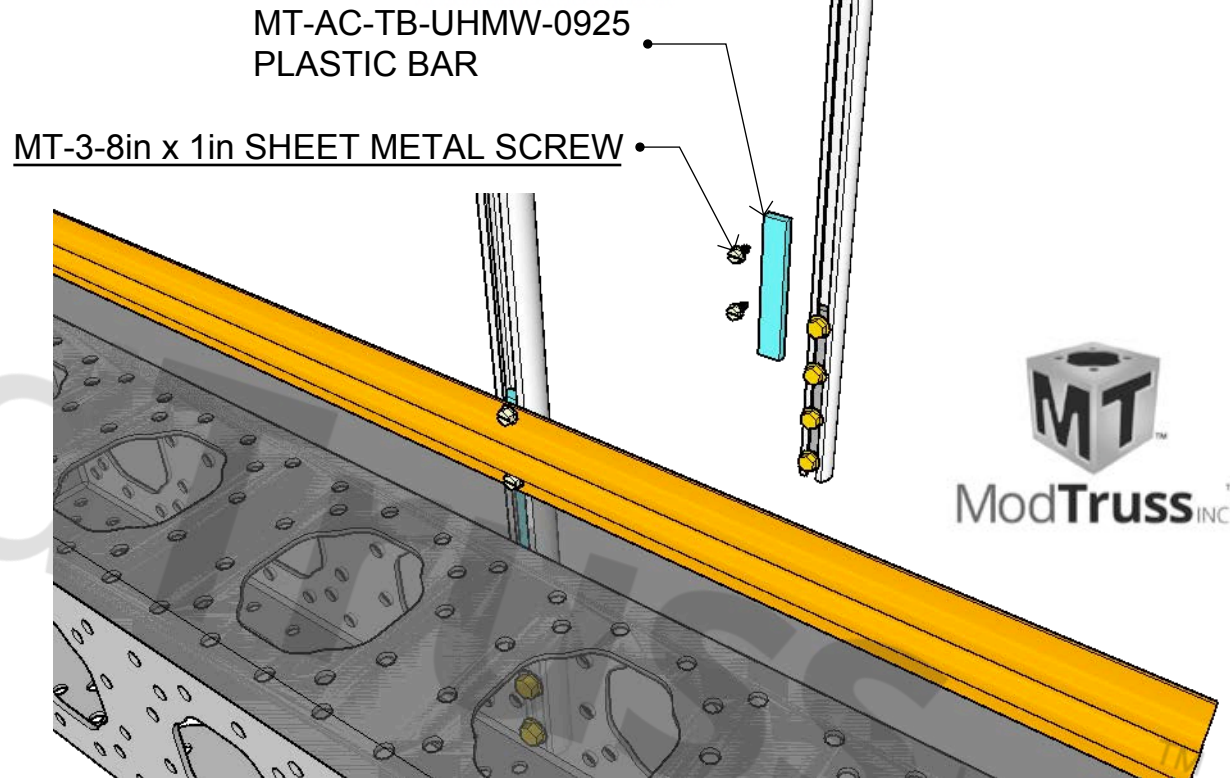
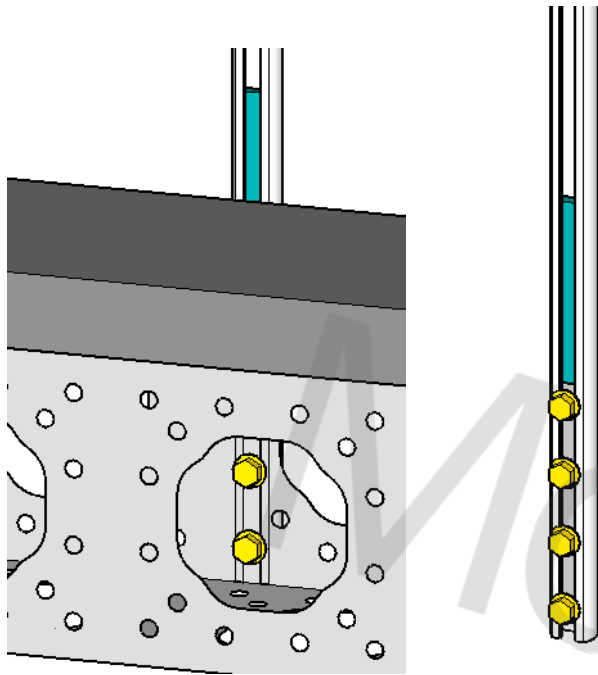
**\*NOTE:**

WHEN CONNECTING PLY WOOD OR DECORATIVE SHEET USE A SCREW NO LONGER THAN THE THICKNESS OF THE MATERIAL SCREWING INTO. FROM INSIDE THE TRUSS SCREW INTO THE SHEET WITH AN OVER SIZED WASHER WITH THE APPROPRIATE INSIDE DIAMETER FOR THE SCREW USED AND AN OUTSIDE DIAMETER LARGER THAN THE 11/16" HOLE IN THE TRUSS. USE AS MANY SCREWS NEEDED TO ATTACHED SHEET TO TRUSS.

# TOE BOARD / KICK PLATE

## HARDWARE PER CONNECTION

- [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)
- [1] MT-AC-TB-UHMW-0925 (UHMW BAR)
- [2] MT-HW 3/8" X 1" SHEET METAL SCREW



DROP UHMW FROM THE TOP INTO THE T SLOT OF THE PIPE. THIS SHOULD BE DONE AFTER THE EXTRUSION PIPE IS MOUNTED TO THE TRUSS FRAME, BUT BEFORE ANY SPEED RAIL FITTINGS ARE INSTALLED. THIS ALLOWS THE PLASTIC BAR TO REST ON THE TOP OF THE NUT BAR WITHOUT HAVING TO HOLD THE PLASTIC IN PLACE.

USE TWO SHEET METAL SCREWS TO FASTEN TOE BOARD/ KICK PLATE TO PIPE BY SCREWING INTO UHMW PLASTIC BAR. A 1/4" HOLE SHOULD BE DRILLED THROUGH KICK PLATE AND PLASTIC BEFORE SCREWING INTO PLACE



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