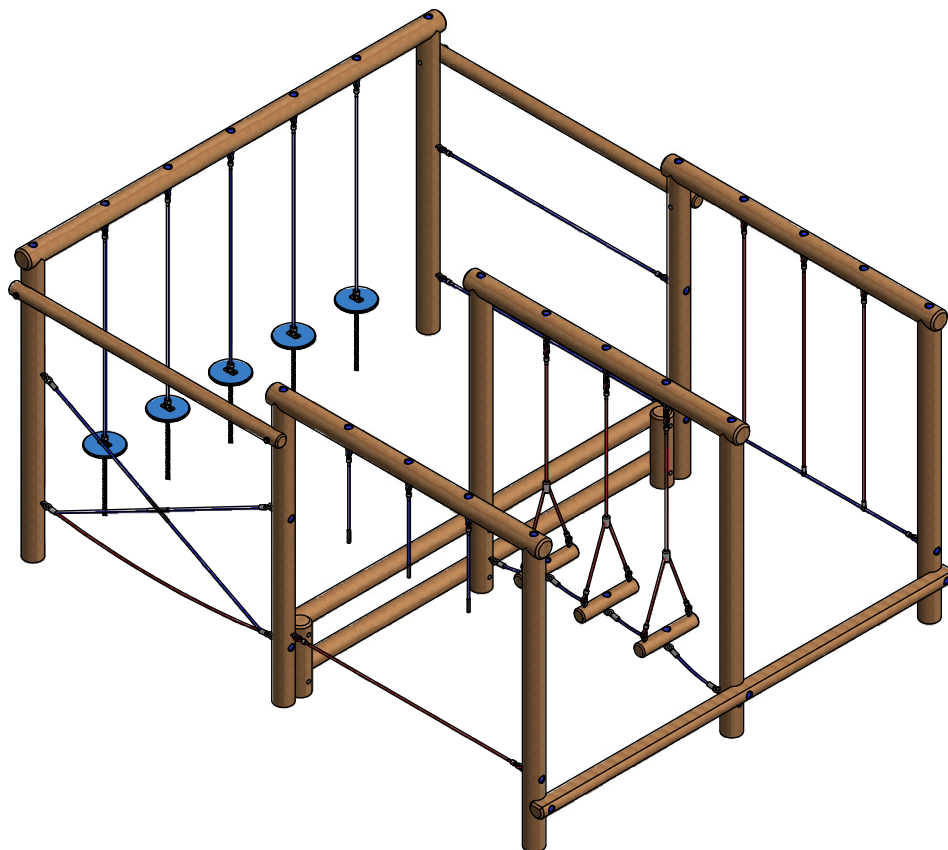




## ACTION & IMAGINATION

### MARINER SPACE FRAME

|            |                                |
|------------|--------------------------------|
| PROD. CODE | SFMAR                          |
| SIZE       | 4.8m (L) x 3.9m (W) x 2.5m (H) |
| FFH        | 0.56m                          |
| AGE RANGE  | 5-11 YEARS OLD                 |

## TECHNICAL DATA

|                        |                                  |
|------------------------|----------------------------------|
| MINIMUM SPACE REQUIRED | 7.8m x 6.9m                      |
| SUPERVISED PLAY        | RECOMMENDED                      |
| EQUIPMENT TYPE         | LOW LEVEL                        |
| LARGEST PART           | 3.8m x 0.15m DIA (FRTB01988-007) |
| HEAVIEST PART          | 50kg (FRTB01988-007)             |

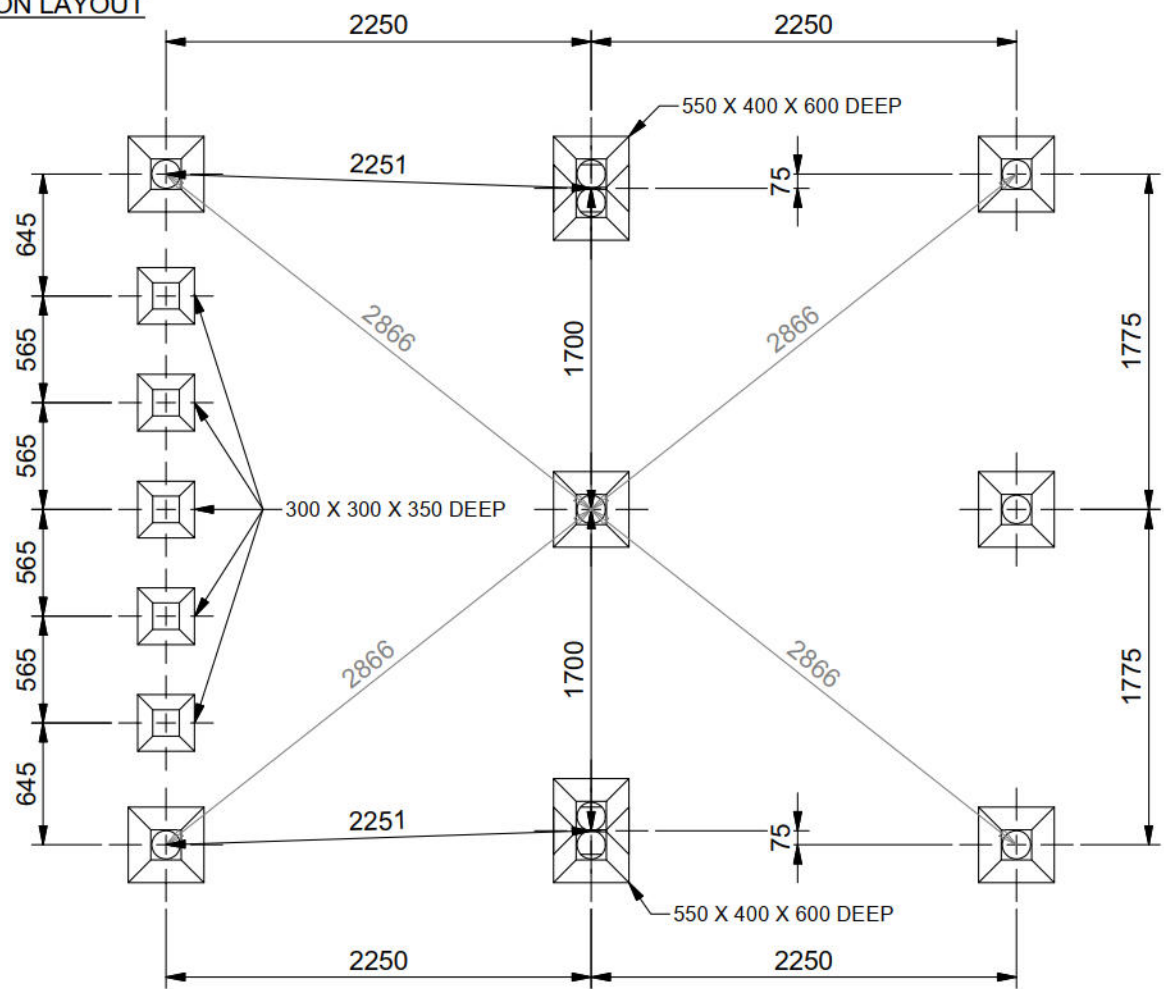
## INSTALLATION DETAILS

1. READ INSTALLATION INSTRUCTIONS THOROUGHLY BEFORE COMMENCING INSTALLATION OF UNIT
2. EXCAVATE FOUNDATIONS USING THE DETAIL AS SHOWN ON PAGE 2 OF THIS DOCUMENT
3. ENSURE TO CHECK AND TIGHTEN ALL FIXINGS USING PROTECTIVE CAPS WHERE NECESSARY
4. BACKFILL FOUNDATIONS WITH 1.0 CUBIC M CONCRETE ALLOWING TO SET FOR 48 HOURS
5. REMOVE ALL ASSEMBLY AIDS BEFORE THE EQUIPMENT IS USED
6. ENSURE AN 'ID' PLATE HAS BEEN FIXED TO THE UNIT BEFORE LEAVING SITE

THIS PRODUCT CONFORMS WITH BS EN1176- 1 :2017

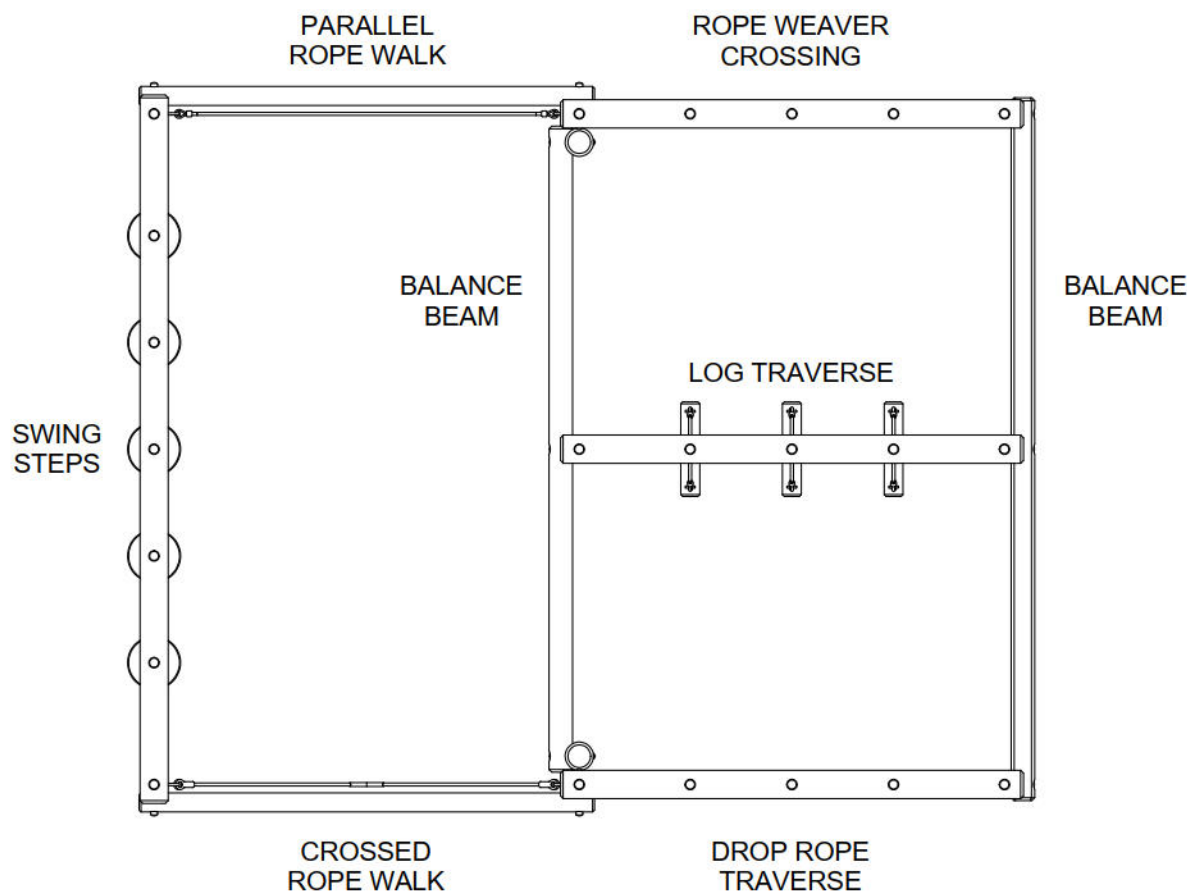


FOUNDATION LAYOUT

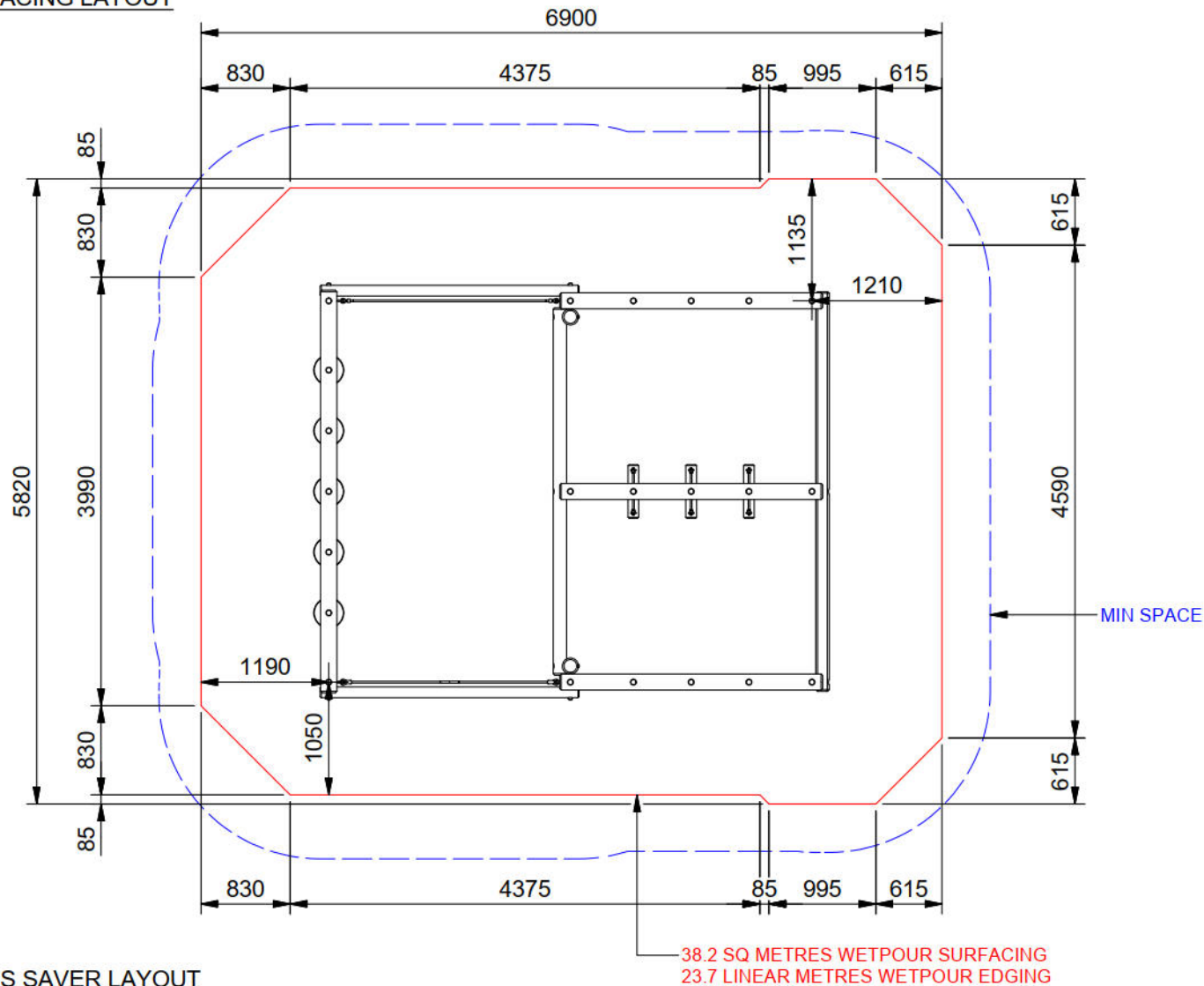


ALL FOUNDATIONS ARE 400 X 400 X 600 DEEP UNLESS OTHERWISE SPECIFIED

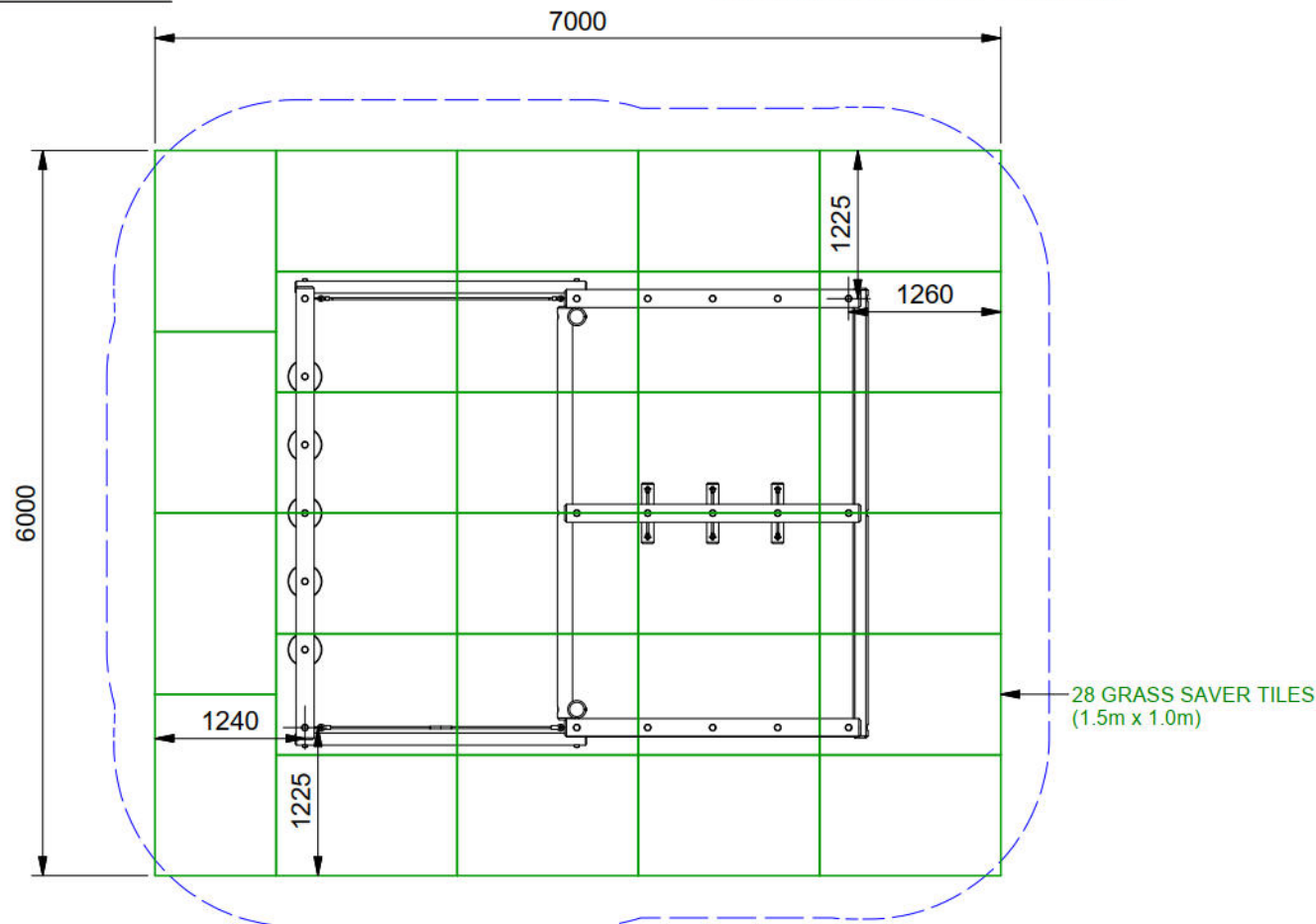
GENERAL LAYOUT

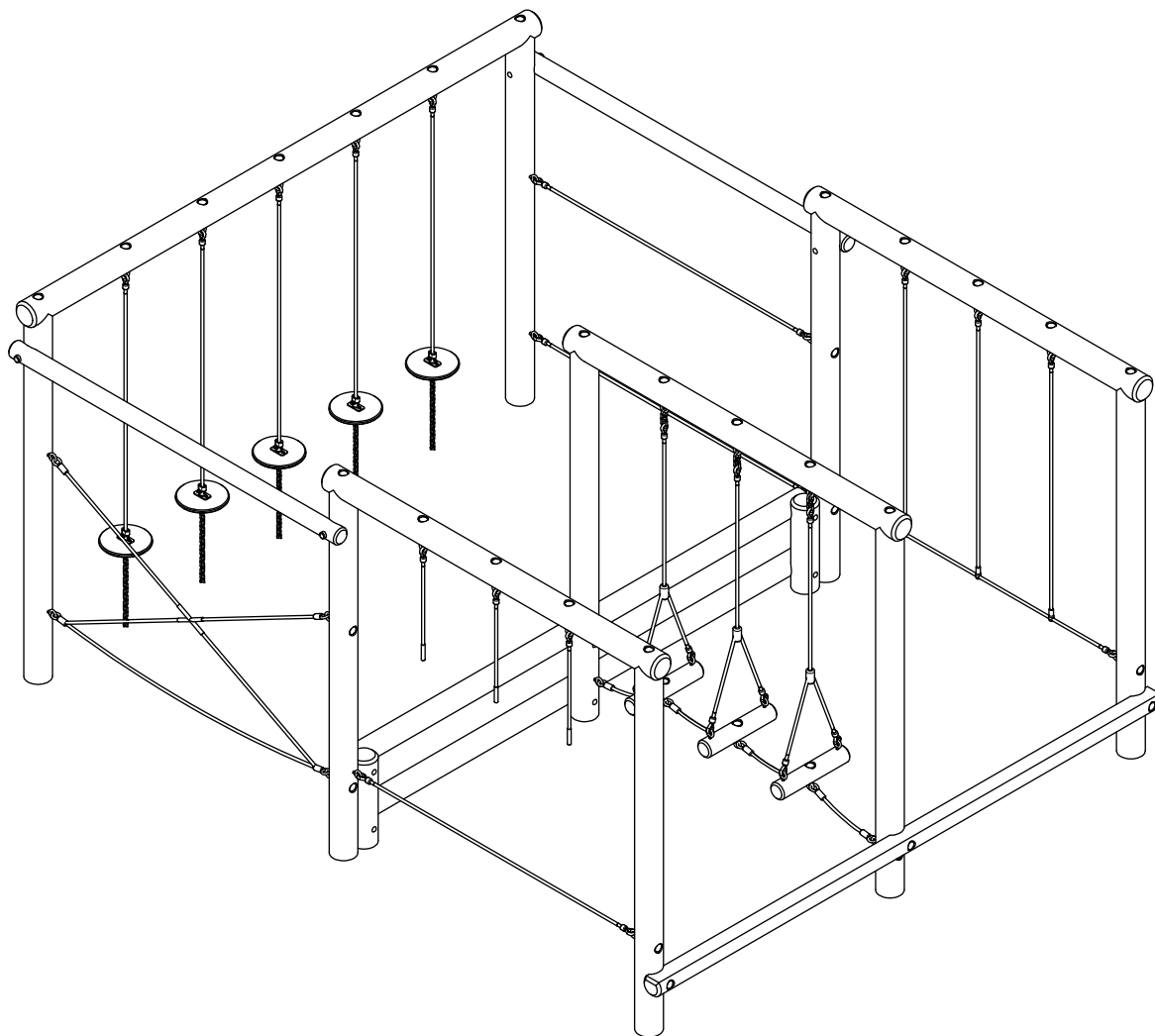


SURFACING LAYOUT



GRASS SAVER LAYOUT



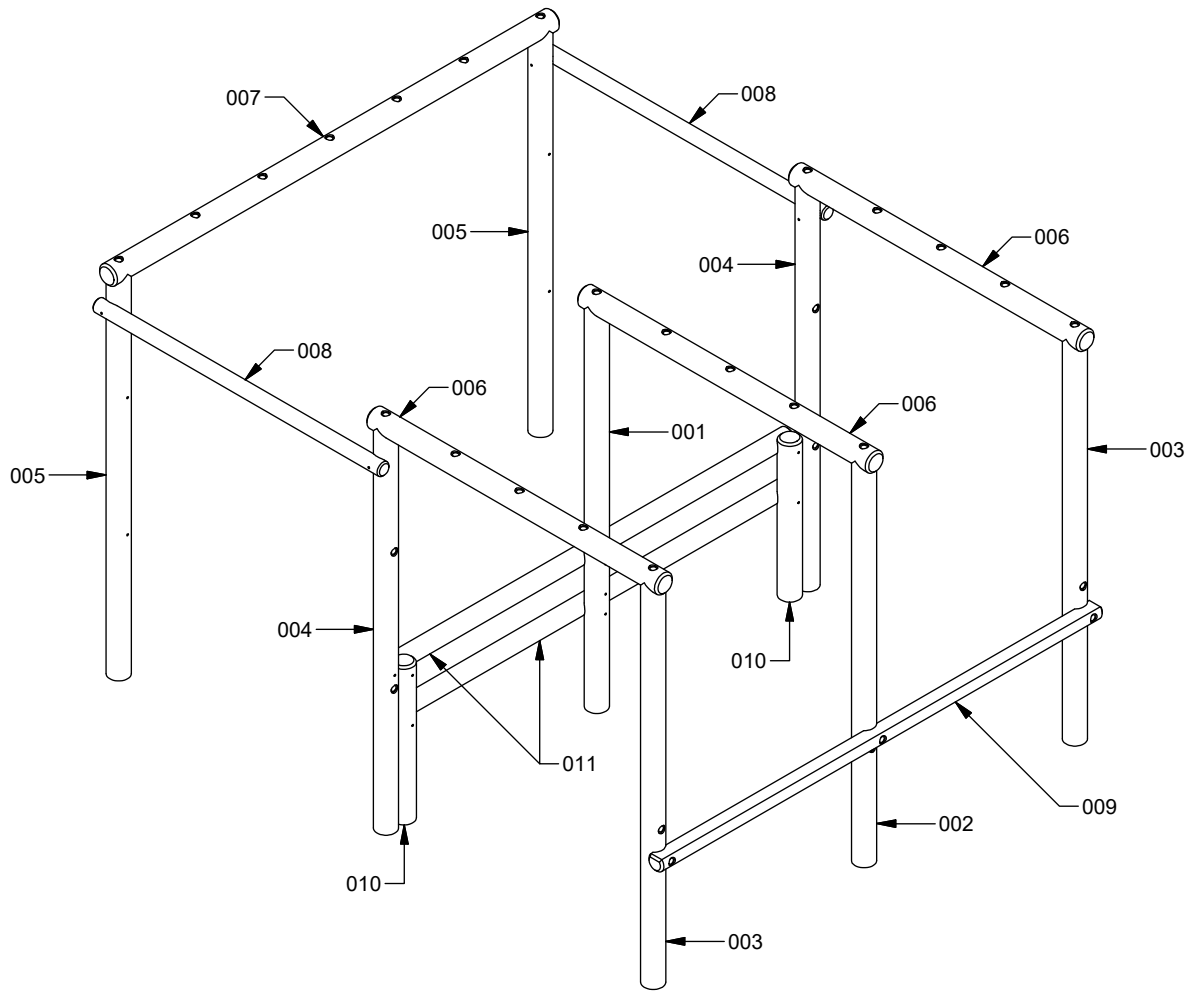


## Parts List

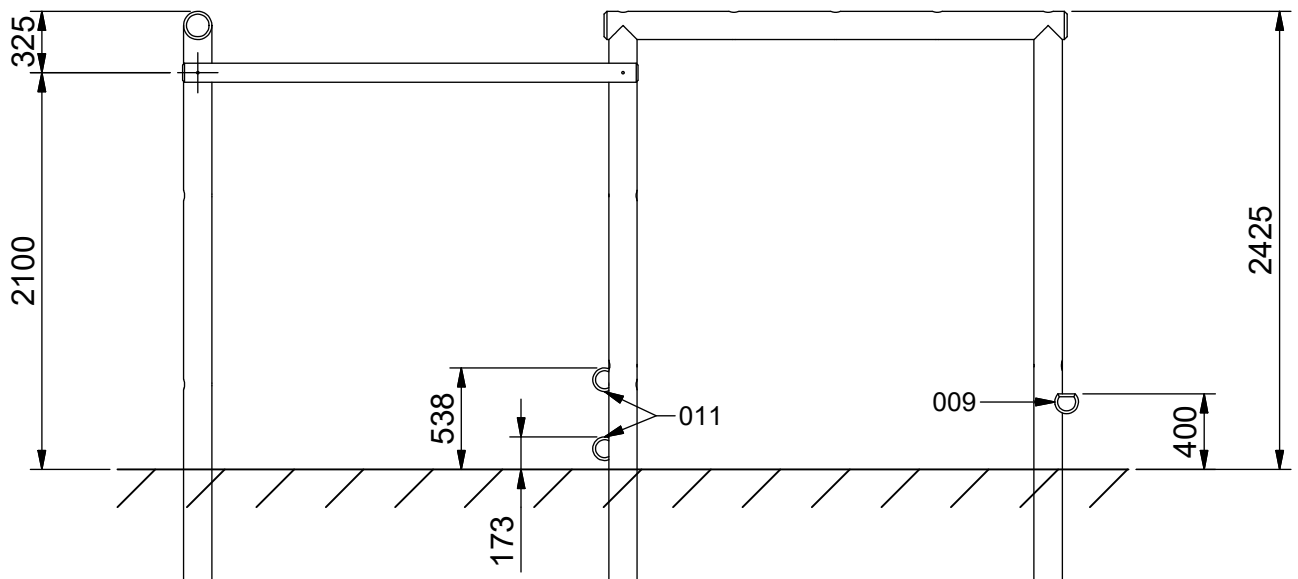
| ITEM | QTY | PART NUMBER | DESCRIPTION                                 |
|------|-----|-------------|---------------------------------------------|
| 1    | 1   | FRTB01988   | MARINER TIMBER SET                          |
| 2    | 2   | FRMS02086   | ESSENTIALS TRAIL 2.1m ROPE                  |
| 3    | 1   | FRMS02092   | ESSENTIALS TRAIL 2.1m CROSSED ROPE          |
| 4    | 1   | FRMS02096   | ESSENTIALS TRAIL 2.1m DROP ROPE TRAVERSE    |
| 5    | 1   | FRMS02097   | ESSENTIALS TRAIL 2.1m LOG TRAVERSE ROPE SET |
| 6    | 1   | FRMS02098   | ESSENTIALS TRAIL 2.1m ROPE WEAVER ROPE SET  |
| 7    | 5   | FRMS02633   | LOW LEVEL SPACE FRAME SWING STEP            |
| 8    | 9   | M12X220CB   | M12 x 220 COACH BOLT                        |
| 9    | 4   | M12X240CB   | M12 x 240 COACH BOLT                        |
| 10   | 8   | M12X240CS   | M12 x 240 COACH SCREW                       |
| 11   | 50  | M12NYLOC    | M12 NYLOC NUT                               |
| 12   | 4   | M12SWASH    | 25mm SMALL WASHER (POLYFIX)                 |
| 13   | 54  | M12WASH     | 32mm 12G WASHER                             |
| 14   | 4   | M12RDONUT   | M12 RADIUSED DONUT                          |
| 15   | 54  | PLC480DCAP  | BLUE POLY CAP 48                            |
| 16   | 5   | QUICK LINK  | QUICK LINK                                  |
| 17   | 5   | LUG300F     | 300MM FLAT GROUND LUG                       |



**TIMBER LAYOUT**  
(REFER TO FRTB01988)



**REFERENCE DIMENSIONS**



**INSTALL UPRIGHT POSTS**

With the foundation holes excavated, as detailed on the spec sheet, its an idea to concrete one post in place to act as a central post, use supporting timbers to support the rest of the unit, DO NOT concrete the remaining posts until the unit has been assembled. For foundation layout, depths & surfacing dimensions refer to the spec sheet. **NOTE:** Pay close attention to the image on sheet 1 as its important scollops and double counterbore holes are facing the correct direction.

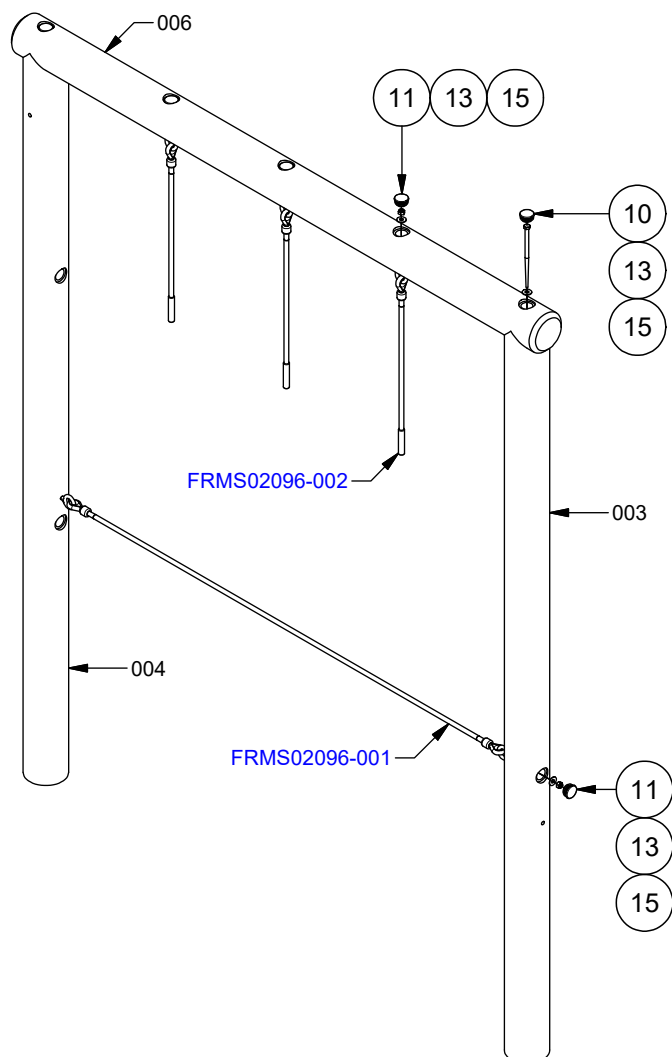
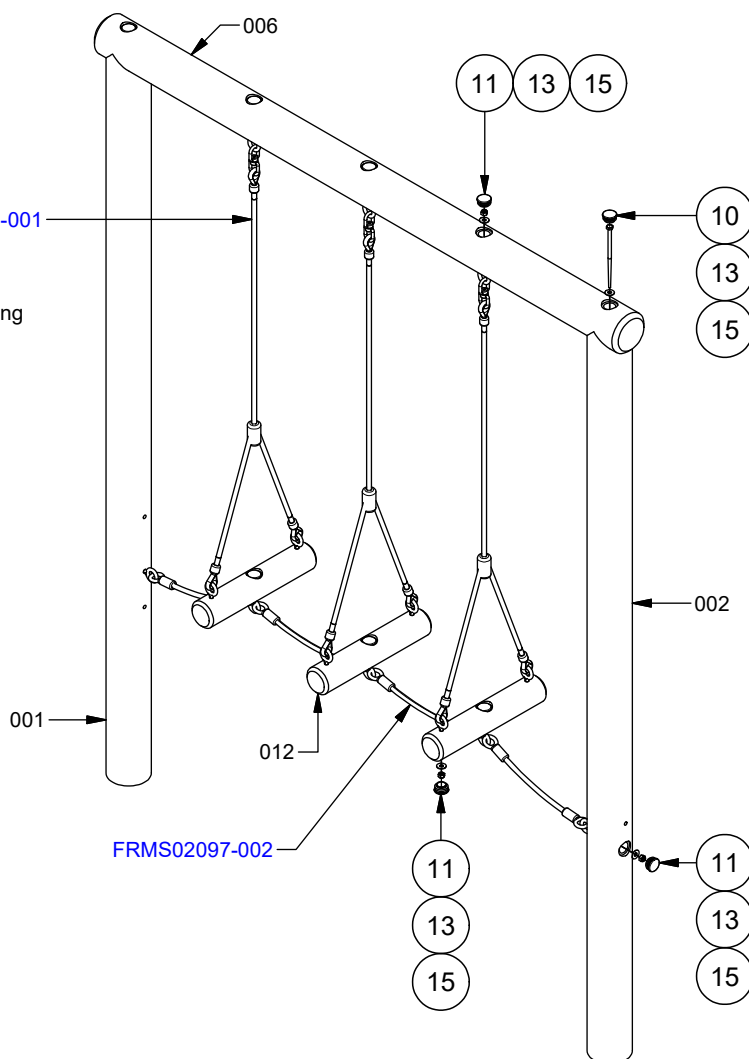
### LOG TRAVERSE ASSEMBLY

Secure the horizontal post '006' to the upright posts '001' & '002' using the supplied M12 x 240 coach screw, M12 washer & cap.

Position the ropes in the timbers '001', '002' & '006' and secure in place using the supplied M12 nyloc, M12 washer and cap.

Fix the 3No. posts '012' to the ropes using the supplied M12 nyloc, M12 washer and cap.

FRMS02097-001



### DROP ROPE TRAVERSE ASSEMBLY

Secure the horizontal post '006' to the upright posts '003' & '004' using the supplied M12 x 240 coach screw, M12 washer & cap.

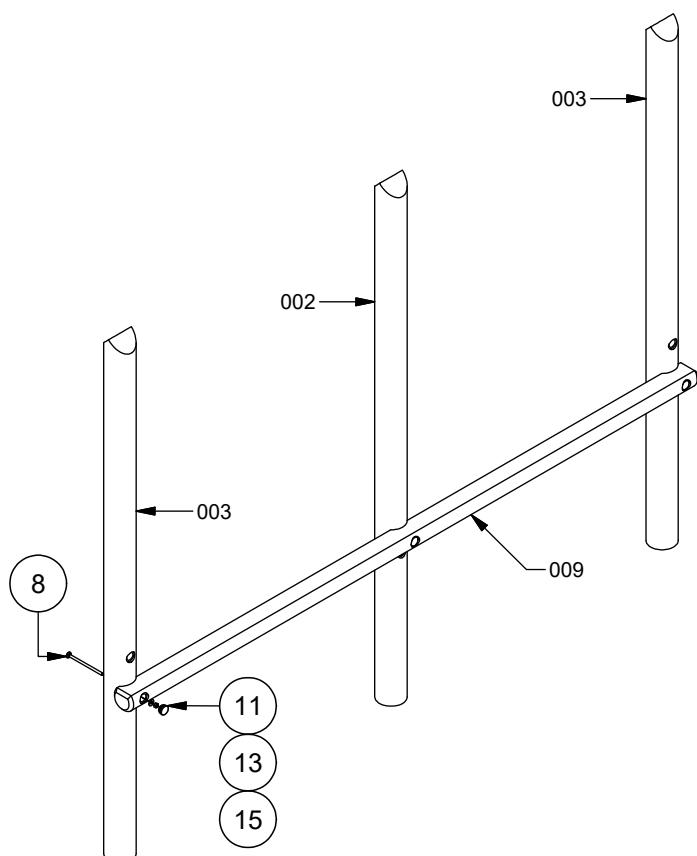
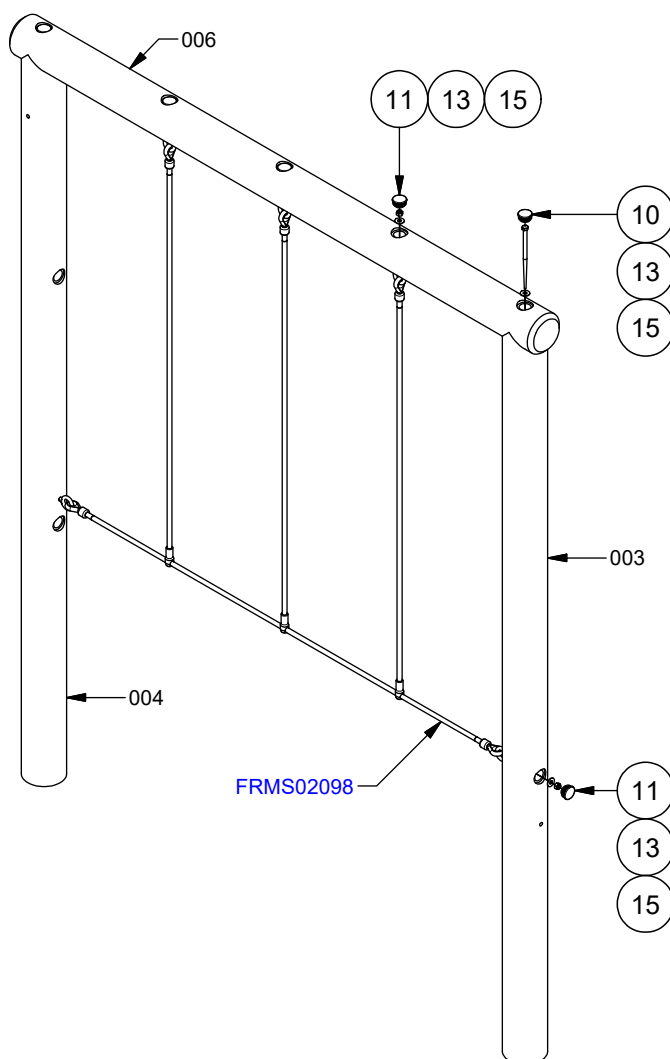
Secure the horizontal rope FRMS02096-001 to the two upright posts '003' & '004' using the supplied M12 nylocs, M12 washers and caps.

Attach the 3No. FRMS02096-002 to the horizontal post '006' using the supplied M12 nylocs, M12 washers and caps.

### ROPE WEAVER CROSSING ASSEMBLY

Secure the horizontal post '006' to the upright posts '003' & '004' using the supplied M12 x 240 coach screw, M12 washer & cap.

Position the ropes in the timbers '003', '004' and '006' and secure in place using the supplied M12 nyloc, M12 washer and cap.



### BALANCE BEAM

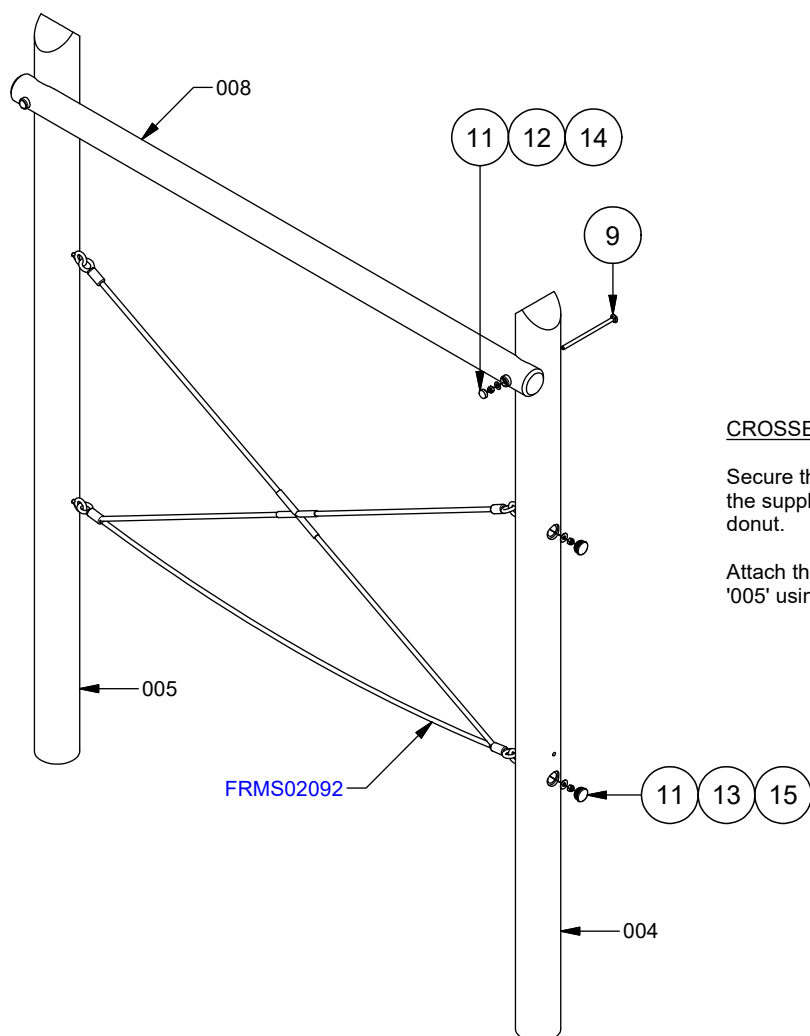
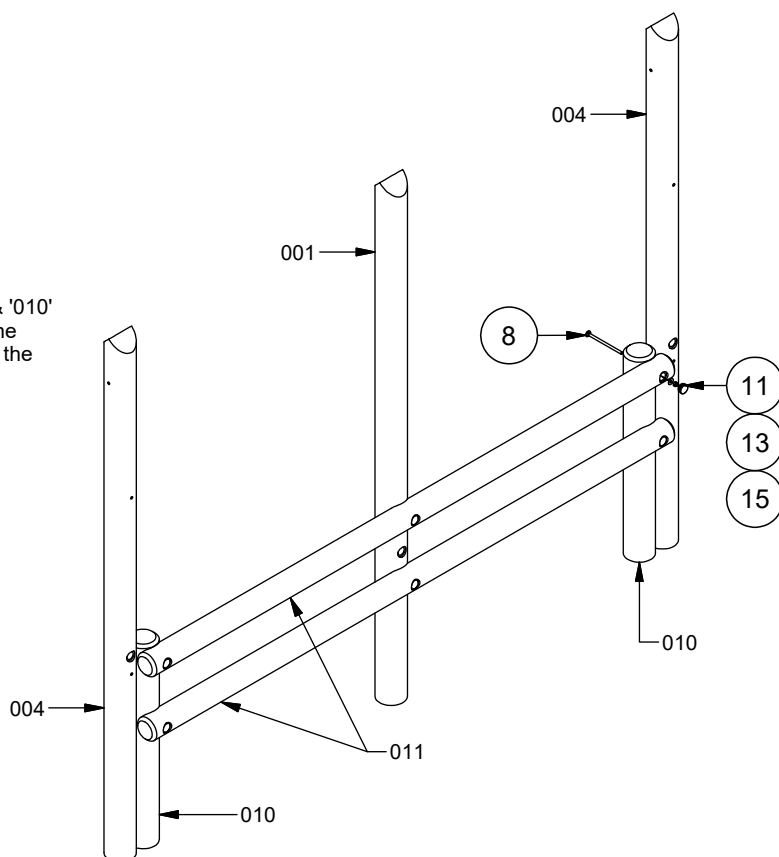
Position the balance beam post '009' against the upright posts '002' & '003'. Line the counterbore holes in the balance beam up with the pre-drilled 13mm holes in the three upright posts and secure in place using the supplied M12 x 220 coach bolts, M12 nylocs, M12 washers and caps.

**NOTE:** The top of the balance beam should sit 385mm from the surface level.

### LOG WALL ASSEMBLY

Position the horizontal posts '011' against the upright posts '001' & '010' so that the counterbore holes in the horizontal posts line up with the pre-drilled 13mm holes in the upright posts. Secure in place using the supplied M12 x 220 coach bolt, M12 nyloc, M12 washer and cap.

**NOTE:** There should be a gap between the two horizontal logs of 240mm.



### CROSSED ROPE WALK ASSEMBLY

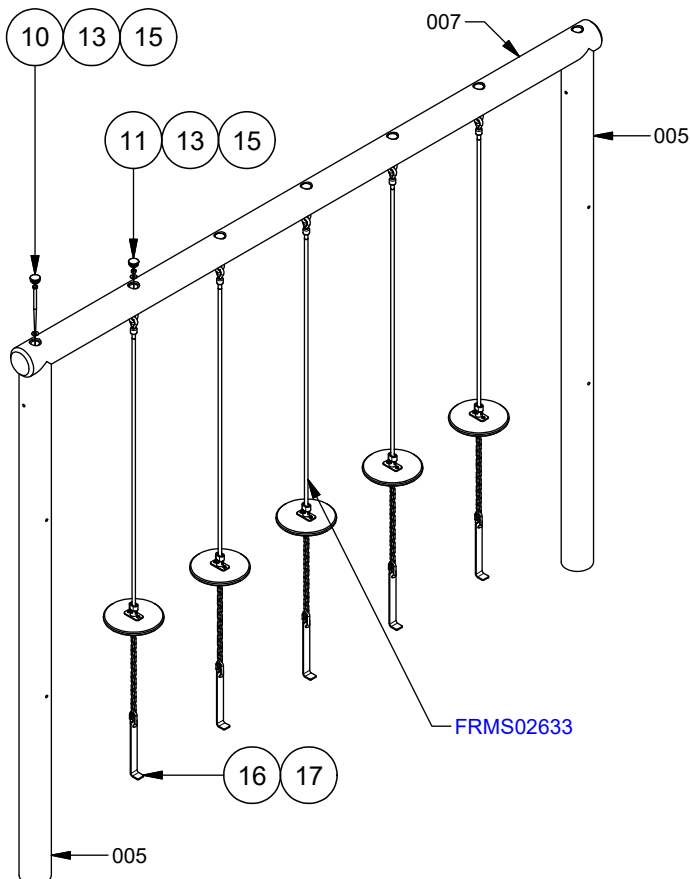
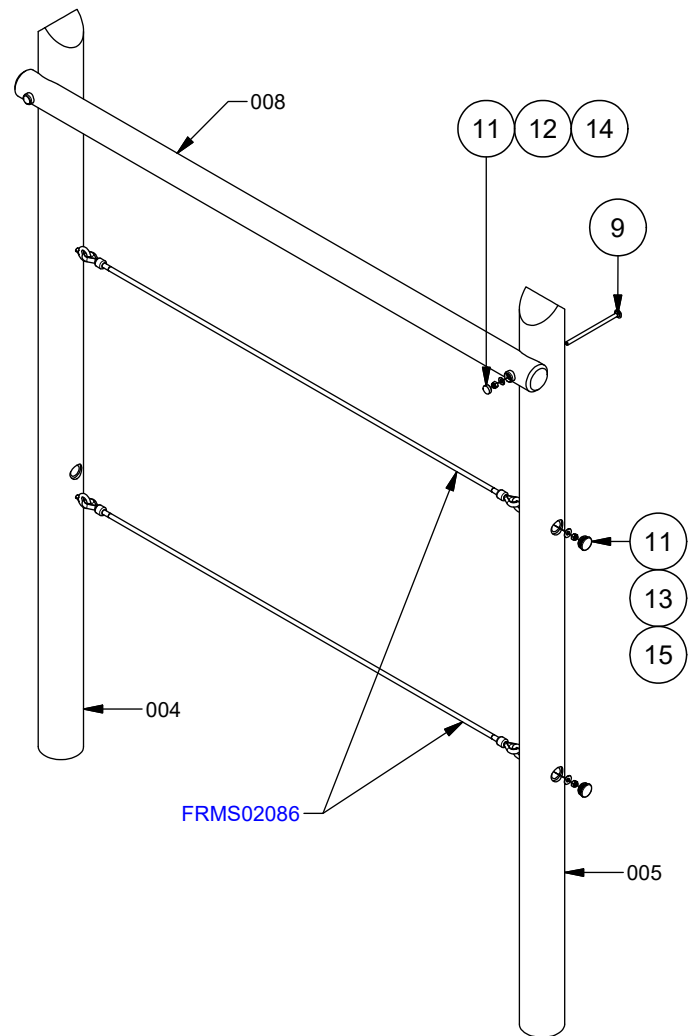
Secure the horizontal post '008' to the upright posts '004' & '005' using the supplied M12 x 240 coach bolt, M12 nyloc, M12 small washer and donut.

Attach the crossed rope walk rope to the timber upright posts '004' & '005' using the supplied M12 nyloc, M12 washer and cap.

### PARALLEL ROPE WALK ASSEMBLY

Secure the horizontal post '008' to the upright posts '004' and '005' using the supplied M12 x 240 coach bolt, M12 nyloc, M12 small washer and donut.

Attach both parallel ropes to the timber upright posts by feeding the rope eyebolts through the pre-drilled holes and securing with the supplied M12 nyloc, M12 washer and cap.



### SWING STEPS ASSEMBLY

Secure the horizontal post '007' to the upright posts '005' using the supplied M12 x 240 coach screw, M12 washer and cap.

Attach the 5No. swing steps to the horizontal post by feeding the eyebolts through the pre-drilled counterbore holes and securing in place using the supplied M12 nyloc, M12 washer and cap.

Attach the ground lugs to the chains using the quick links and concrete in the foundation hole.

**NOTE:** The top of the HDPE platform on each swing step should sit 550mm from the surface level