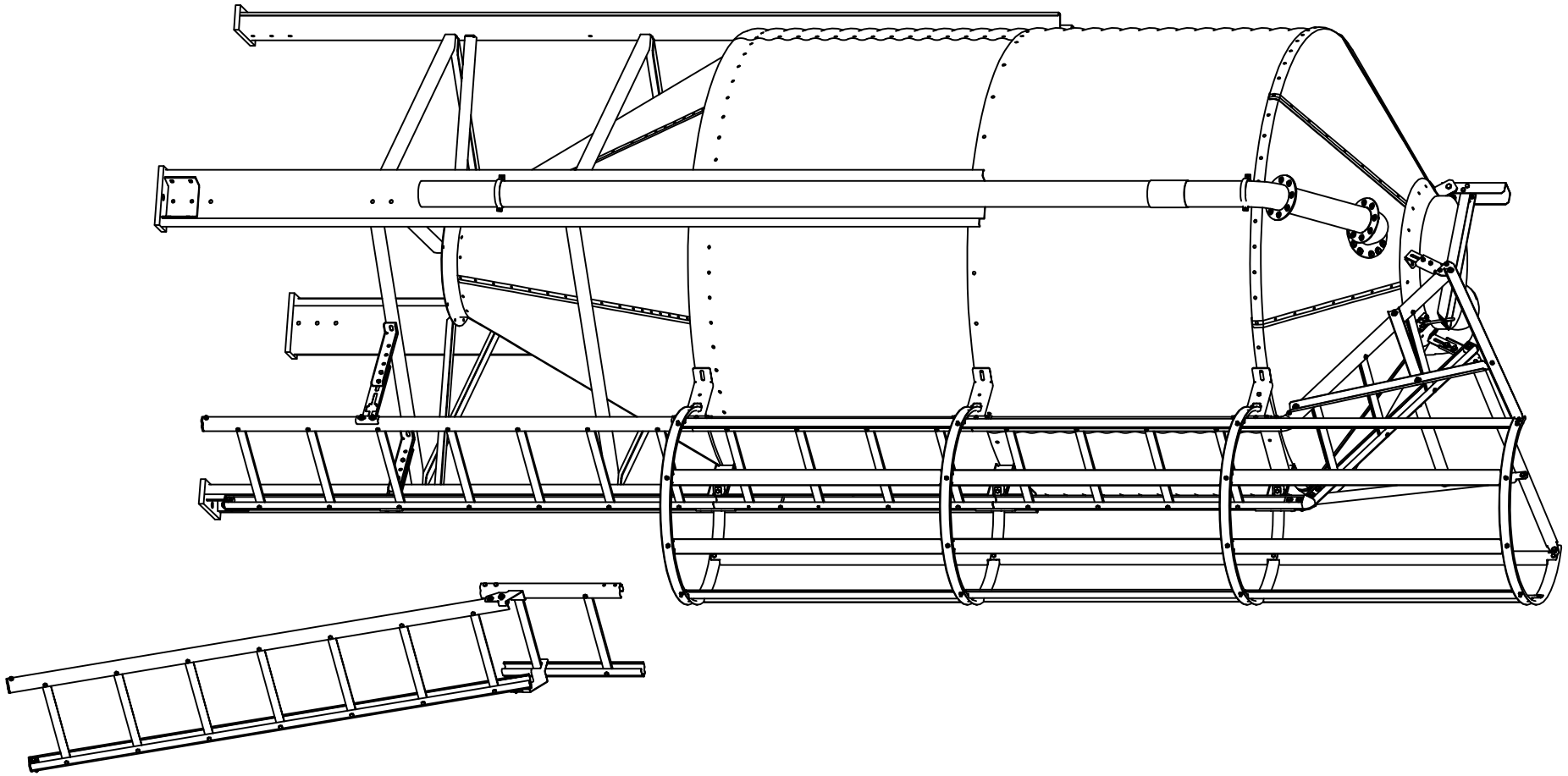


ASSEMBLY MANUAL SILO SG180T60

MANSG180T60IN

This manual has been prepared to help you to use and assemble your silo and accessories correctly. We recommend that you follow them closely to avoid risks incurred from faulty assembly or from using the equipment incorrectly. Failure to follow the instructions can lead to significant personal injury or even death. **Please use caution to ensure your safety.**

This product **should be inspected** as soon as it is received. The client is responsible for ensuring that all the quantities are correct and the material is in perfect condition. Any damage or discrepancy between the quantities listed on the Packing List should be described in your claims report to the shipping company. Our responsibility for damage or missing items in the product ends as soon as the client has signed the correct receipt for it. In any case, it is important to retain all papers and documentation associated with the silo and/or its components.

Until assembly time, the product **should be stored** in a protected location with the lowest humidity possible and protected from direct contact with the floor. Never leave the material out in the weather.

The **guarantee** supplied with the equipment you have purchased is only valid when assembled, used, and maintained correctly.

As manufacturers, our primary concern is the safety of our customers, their employees and livestock. Remember, safety is everyone's responsibility, and that is why it is important for you as proprietor and operator to know and understand the risks and precautions that should be used when operating this equipment. It is equally important that everyone who works or operates in or near the silo area be informed about the risks.

Before Starting:

Decide where you are going to build your silo. Make sure that it is a safe location and above all, use extreme caution if there is the possibility that electric lines might have contact with your silo. Review all the tools that you will need to use during the assembly, and test them to make sure that their security measures are in place and that they are functioning correctly.

During Assembly:

All personnel involved in the assembly and construction of the silo should always wear personal protective equipment. This includes wearing gloves, protective footwear with steel toecaps, helmet, ear protectors, protective glasses and if necessary, respirator masks.

Ground all electrical devices.

Keep in mind that many of the components of your silo are extremely heavy. It is important to use correct lifting techniques that prevent muscle injuries when lifting and moving these pieces. Avoid excessive overloads.

Despite all the care taken during manufacturing, it is not always possible to avoid all the corners and edges that can cause you significant injury. To avoid injury, always handle the pieces with safety gloves and use extreme care.

Make sure that there is no moving component that could take you by surprise during the assembly.

When assembling the silo on its side, it could roll at any time and potentially trap an assembler. For this reason, the silo should always be correctly anchored to the ground.

When effecting any operation in the upper parts of the silo, it is important to do so only with tools that have suspension systems to keep them from falling.

Flag any areas where there is risk of possible danger.

During operation:

Always have telephones on hand ready to contact emergency services.

Make sure that all the safety systems are in perfect working condition and placed correctly.

Keep the silo and its surroundings clean, avoiding any accumulation of decomposing feed and any type of scrap.

Maintain the construction in good condition. Always replace any pieces in poor condition and never use any material that has not been supplied by the silo manufacturer, as this could result in problems using the material that have not been anticipated by our calculations.

Do not undertake any modification without authorization, as this could affect the operation, safety, or the lifetime of the equipment.

To avoid possible electric shock, it is very important to maintain all the electric protective mechanisms of the devices installed on the site. Make sure that all the electric systems are properly grounded.

You should be alert to any danger signals while you are still in the work zone of the site.

When making any repair or maintenance procedure on the silo, all electrical devices should be disconnected, and their circuits should be locked so that no accidental start-ups can take place. If your silo comes with a door in the cylinder, never attempt to open it when the silo is loaded.

When making repairs or effecting maintenance procedures on the inside of the silo, it must be completely empty. Bear in mind that entering a loaded silo represents a real danger of serious injury including death.
In case it is necessary to go into the silo, **the following conditions must be in place**:

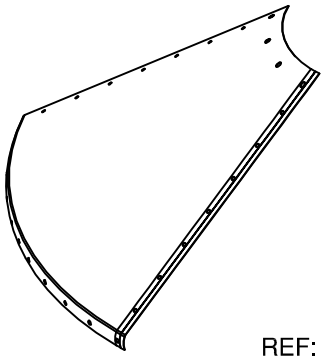
1. The electric power supply has been disconnected and appropriate measures have been taken to prevent an accidental connection.
2. The centre of the silo has been secured.
3. A harness and safety cord are in place appropriately attached.
4. Breathing equipment is available.
5. During the whole time that an operator is inside the silo there should be another on the outside.

If your silo comes equipped with a ladder, it may be used in two different configurations. One with the ladder in fixed position that can only be climbed when there is some protection that prevents access to the silo zone. The other option is to use the hand ladder, which can always be climbed, but has no protection to prevent access to the silo zone. In whichever case**, extreme caution should be used when ascending the silo:**

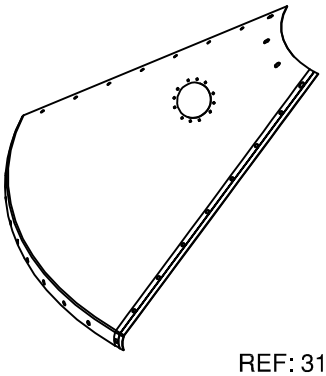
1. the maximum load for the ladder is 200 kg.
2. Never climb the silo if you observe any damage or incorrect installation of the ladder.
3. Keep the scored surface of the ladder rungs clean and free of any encrusted material.
4. Always remember: ascending a silo is not without risks. For this reason, when you ascend the silo you should wear adequate anti-slip footwear, gloves, and a safety harness.
5. When ascending or descending the silo, always look at the ladder and make sure that you have a good grip.
6. Never ascend the silo if your physical condition is not adequate for the task (fatigue, sleepiness, illness are among the effects of medicines, alcohol, and drugs.)
7. The hand ladder is exclusively to access the fixed ladder of the silo. When using it position it at the most vertical angle possible and never use it in the horizontal position as a gateway.
8. To access the roof, be sure to step only on the ladder rungs. Never step on any of the sectors of the roof.

To assemble the silo the following tools will be needed:

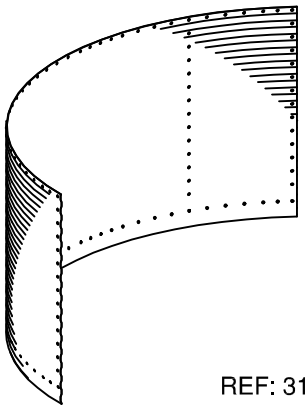
1. Adjustable Wrench
2. Ratchet with extension and set of nozzles
3. Set of fixed wrenches no. 13, 17, and 19.
4. Flat point screw removers
5. 2 35/40 cm pincers (S525).
6. Hammer
7. Drill (at least 450W power) with 14mm bit
8. Concrete drill with 24 mm bit
9. High-impact screw driver with no 13, 17, and 19 size heads



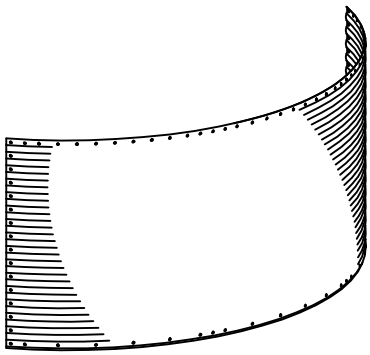
Parts 1
REF: 31G100010A008



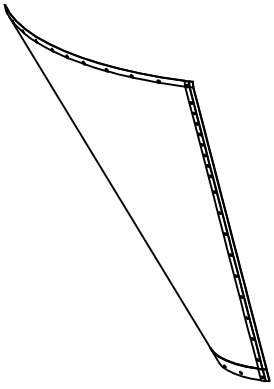
Parts 2
REF: 31G100023A008



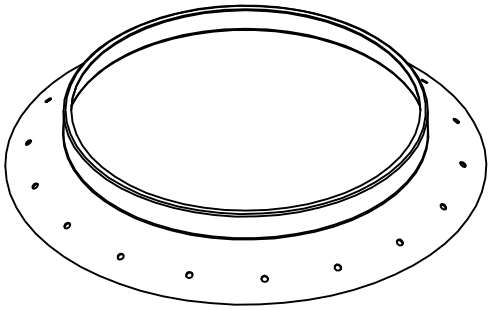
Parts 3
REF: 31G100060A010



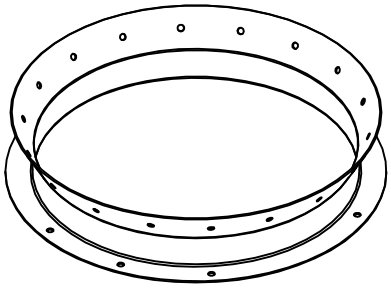
Parts 4
REF: 31G100061A010



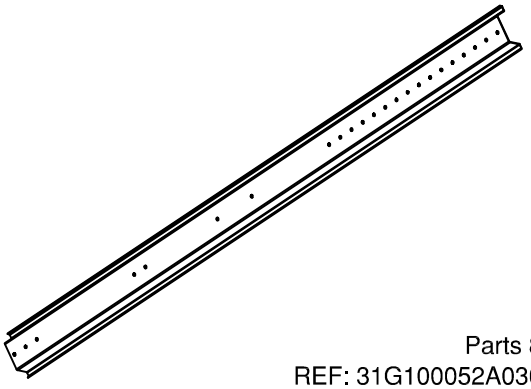
Parts 5
REF: 31G100011A010



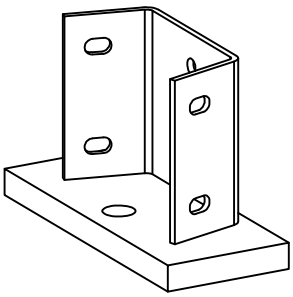
Parts 6
REF: 31G100075A020



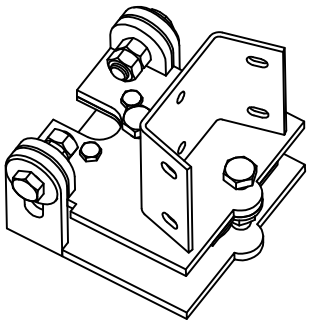
Parts 7
REF: 31G100076A030



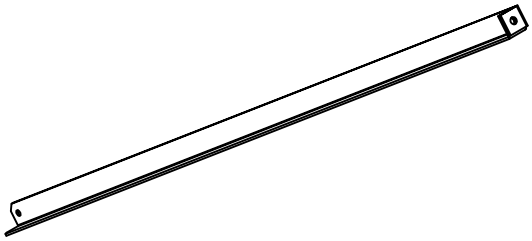
Parts 8
REF: 31G100052A030



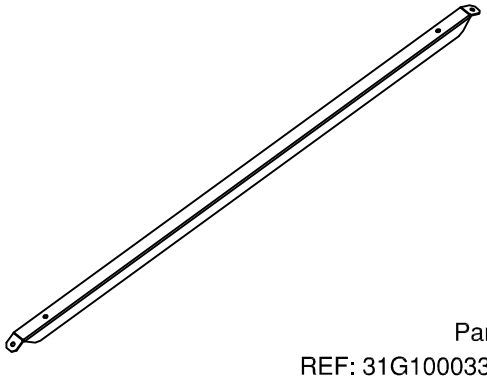
Parts 9
REF: 31G100013A000



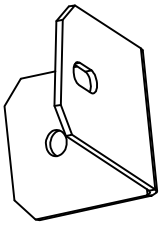
Parts 10
REF: ASGPESAJE



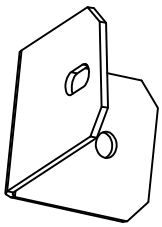
Parts 11
REF: 31G100036A030



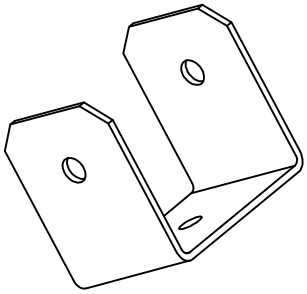
Parts 12
REF: 31G100033A030



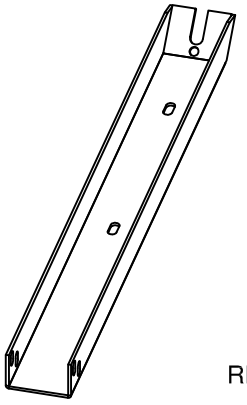
Parts 13
REF: 31G100123A030



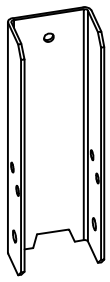
Parts 14
REF: 31G100124A030



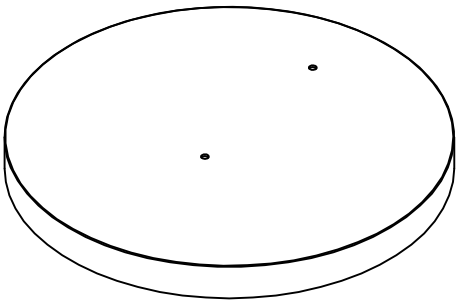
Parts 15
REF: 31G100013A000



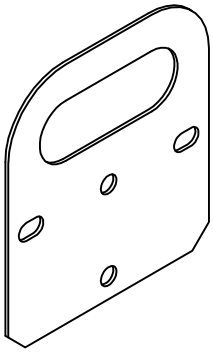
Parts 16
REF: 31G100128A030



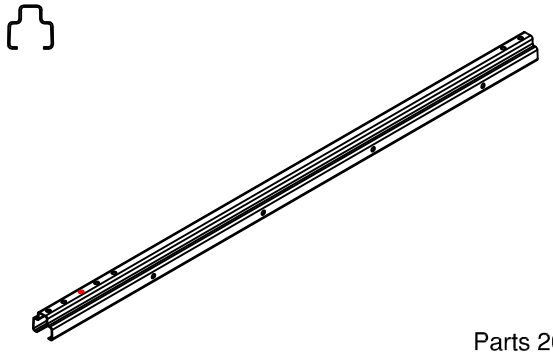
Parts 17
REF: 31G100127A030



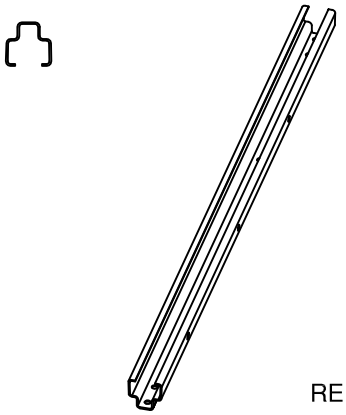
Parts 18
REF: 31G100125A020



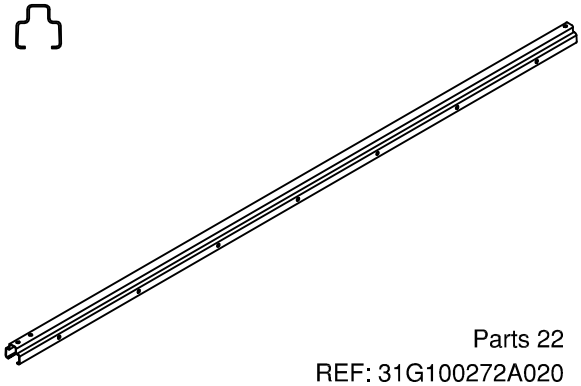
Parts 19
REF: 31G100074A050



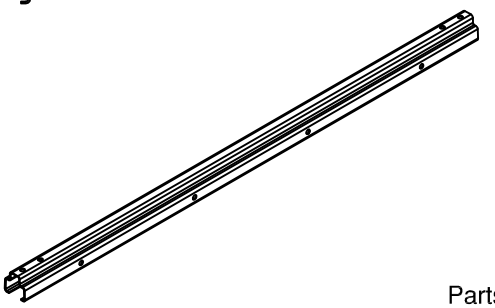
Parts 20
REF: 31G100001A015



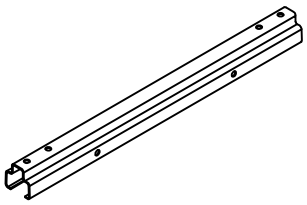
Parts 21
REF: 31G100004A020



Parts 22
REF: 31G100272A020

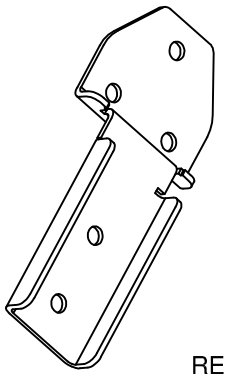


Parts 23
REF: 31G100000A015

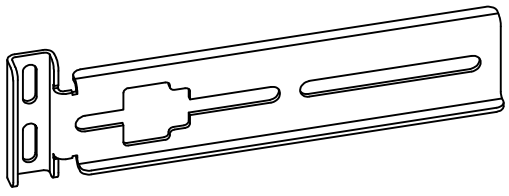


Parts 24
REF: 31G100002A015

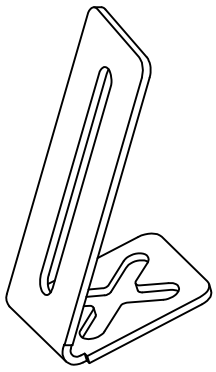
Parts 25
REF: 31G100009A015



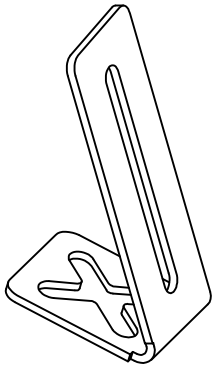
Parts 26
REF: 31G100100A000



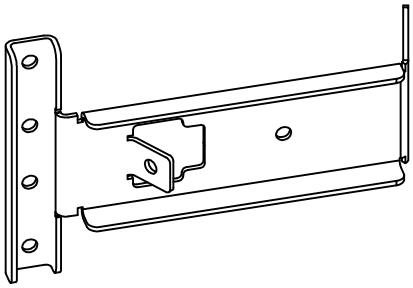
Parts 27
REF: 31G100094A030



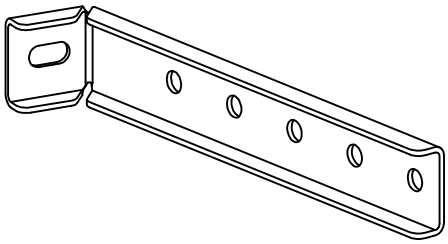
Parts 28
REF: 31G100093A030



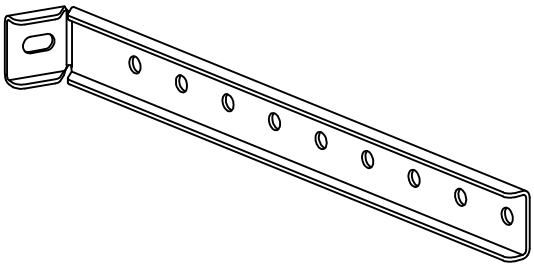
Parts 29
REF: 31G100092A030



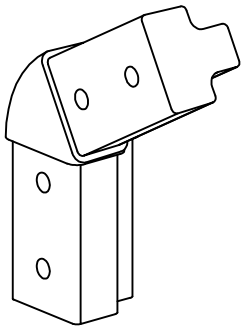
Parts 30
REF: 31G100047A030



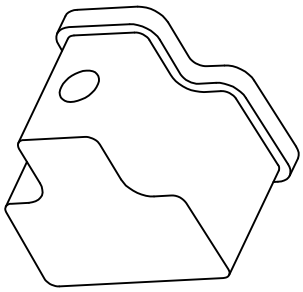
Parts 31
REF: 31G100095A030



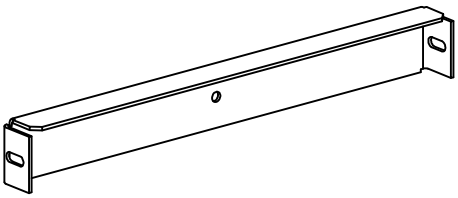
Parts 32
REF: 31G100264A030



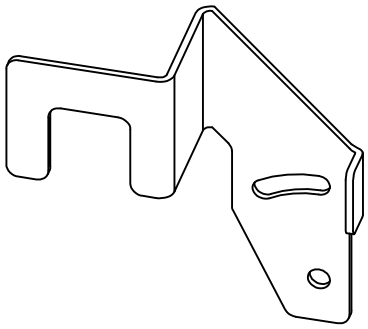
Parts 33
REF: 31G100074A050



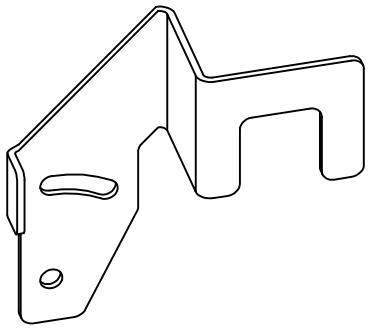
Parts 34
REF: 31G100099A000



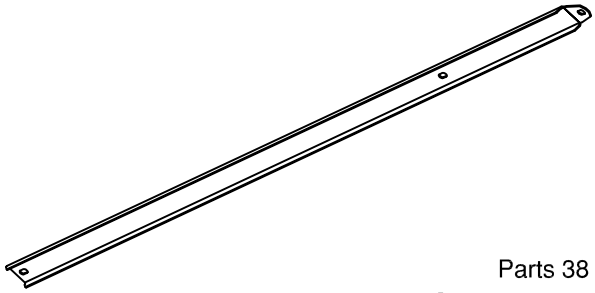
Parts 35
REF: 31G100044A030



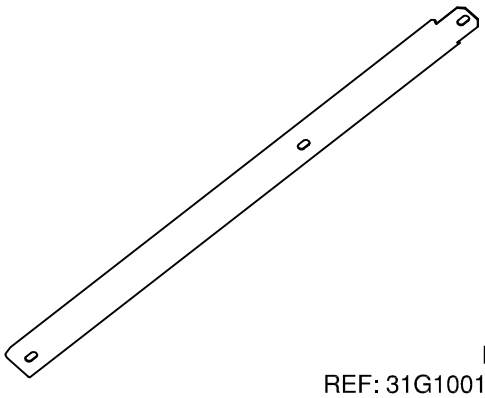
Parts 36
REF: 31G100155A030



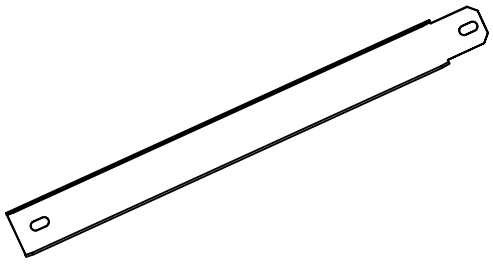
Parts 37
REF: 31G100156A030



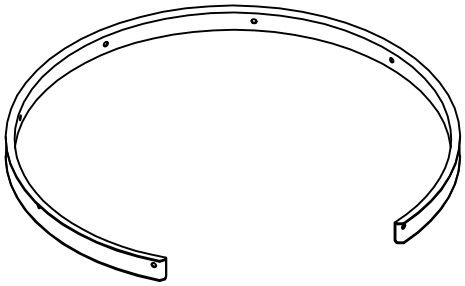
Parts 38
REF: 31G100140A020



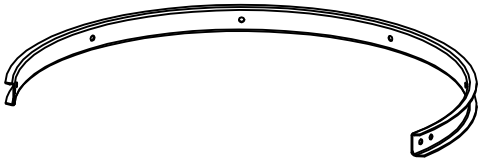
Parts 39
REF: 31G100141A020



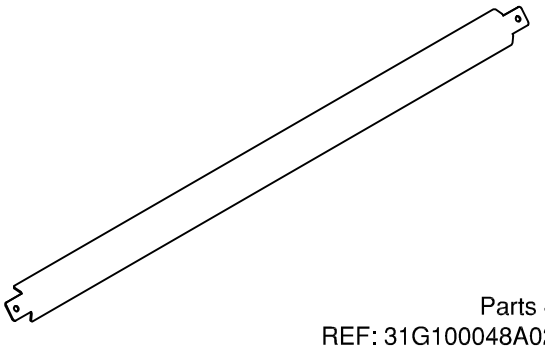
Parts 40
REF: 31G100142A020



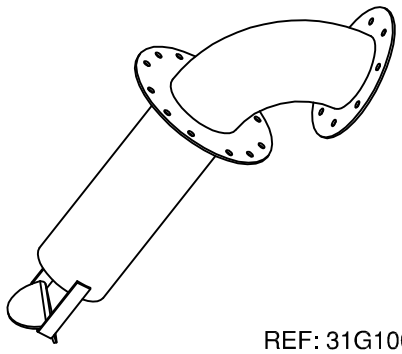
Parts 41
REF: 31G100050A020



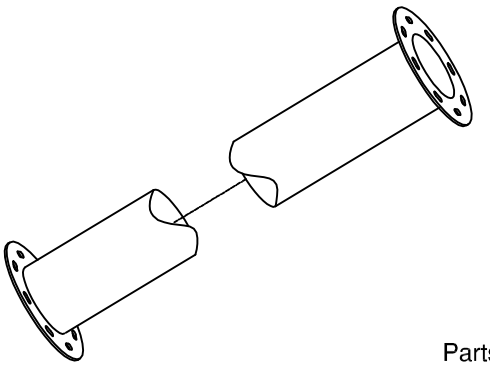
Parts 42
REF: 31G100049A020



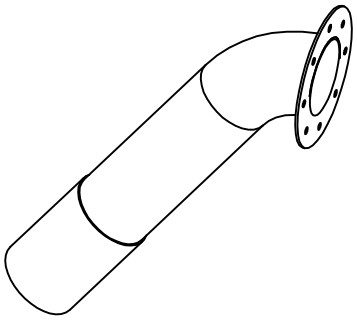
Parts 43
REF: 31G100048A020



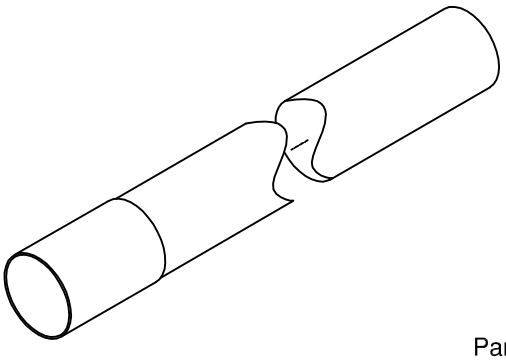
Parts 44
REF: 31G100110A000



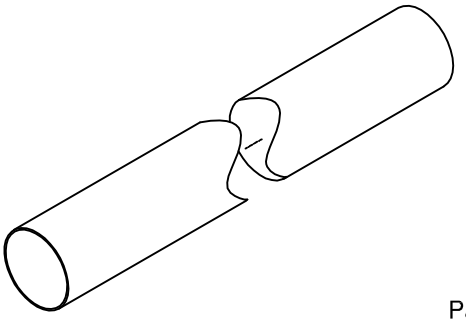
Parts 45
REF: 31G100117A000



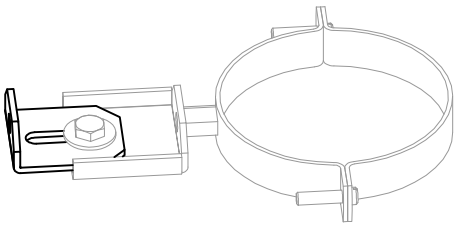
Parts 46
REF: 31G100112A000



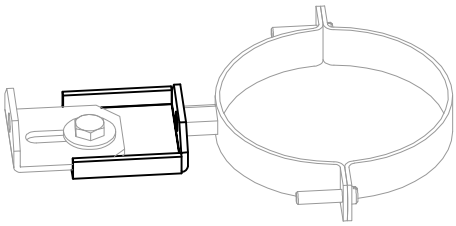
Parts 47
REF: 31G100225A000



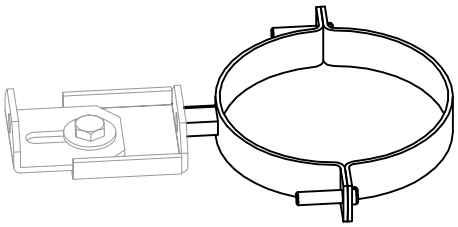
Parts 48
REF: 31G100075A000



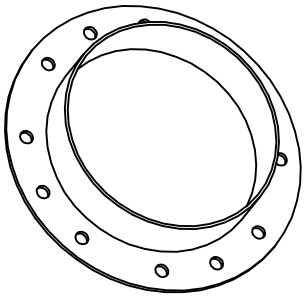
Parts 49
REF: 31G100116A030



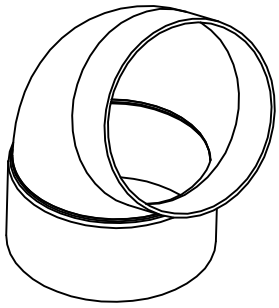
Parts 50
REF: 31G100115A030



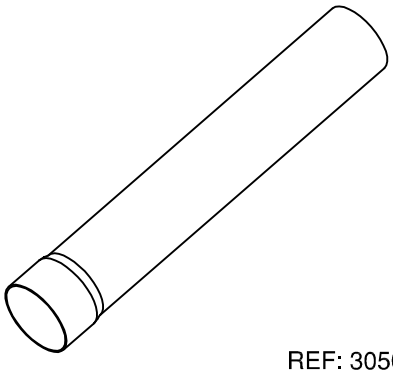
Parts 51
REF: 300ABRE100



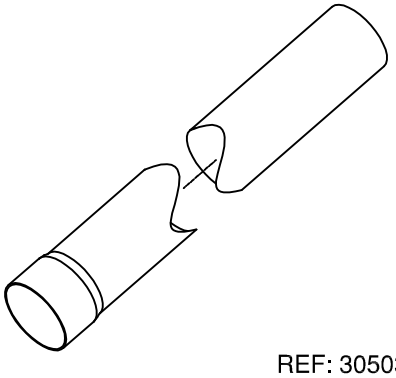
Parts 52
REF: 31G100114A000



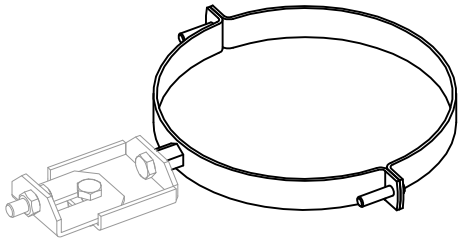
Parts 53
REF: 304901600875



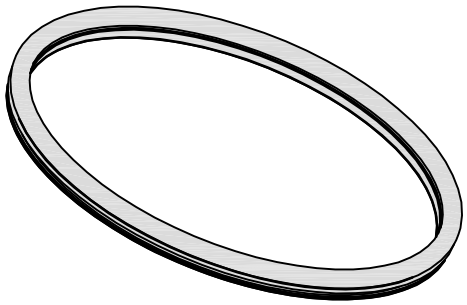
Parts 54
REF: 305031601000



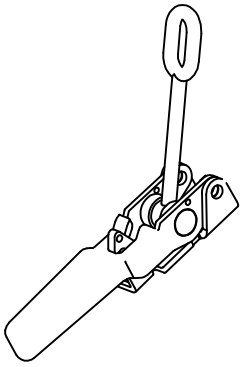
Parts 55
REF: 305031605000



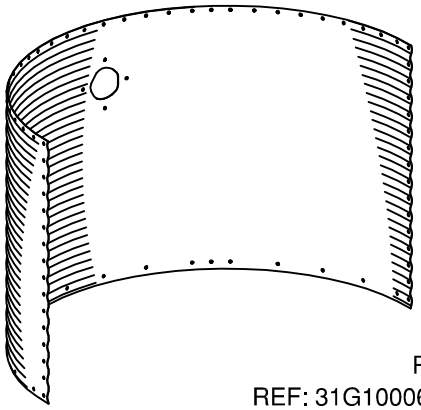
Parts 56
REF: 300ABRE160



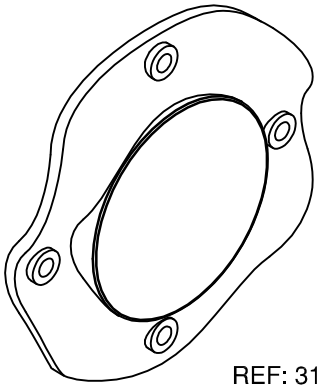
Parts 57
REF: 3000067143



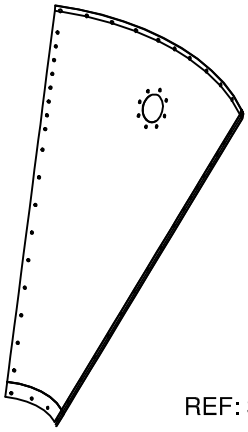
Parts 58
REF: 3000067144



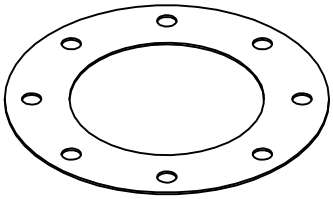
Parts 59
REF: 31G100061A010



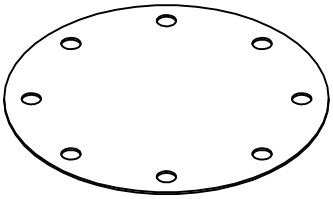
Parts 60
REF: 31G100101A000



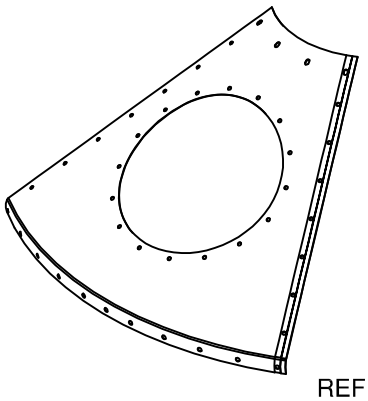
Parts 61
REF: 31G100131A010



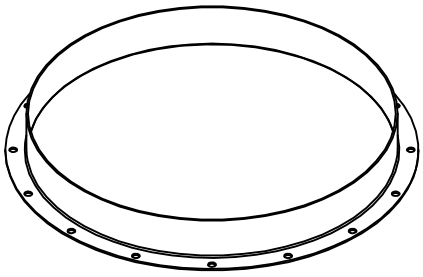
Parts 62
REF: 31G100138A010



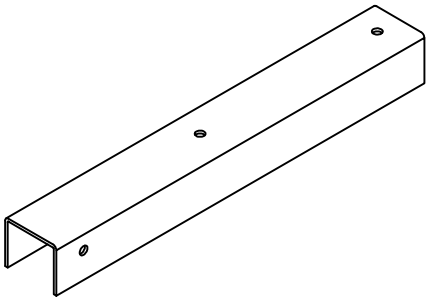
Parts 63
REF: 31G100139A000



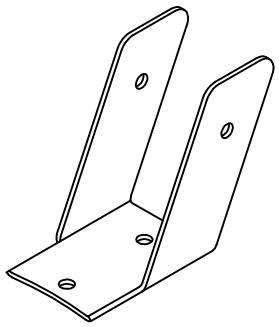
Parts 64
REF: 31G100218A008



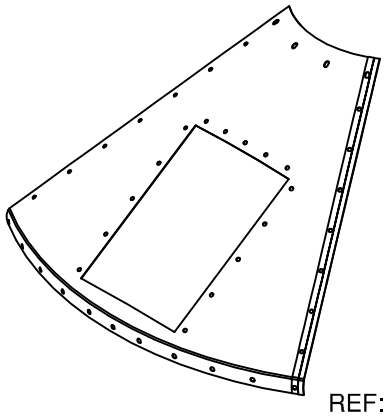
Parts 65
REF: 120.715A



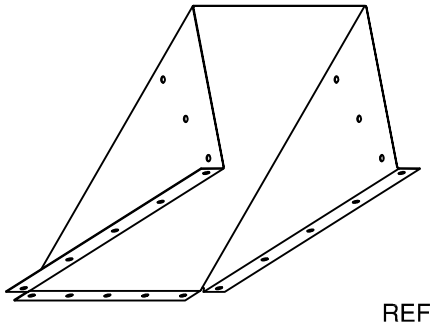
Parts 66
REF: 120.779



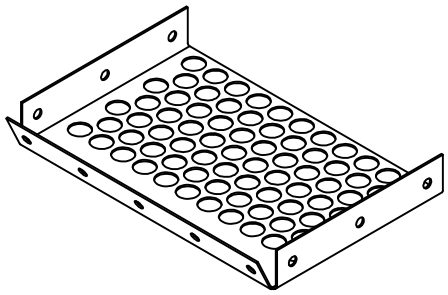
Parts 67
REF: 120.780



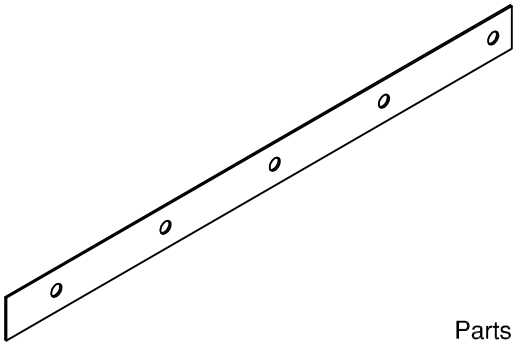
Parts 68
REF: 31G100205A008



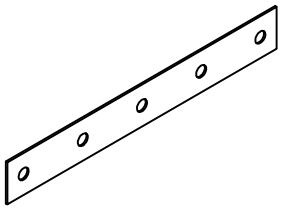
Parts 69
REF: 111.505



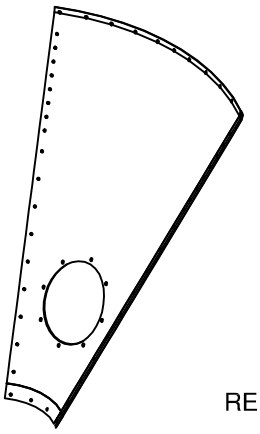
Parts 70
REF: 110.074



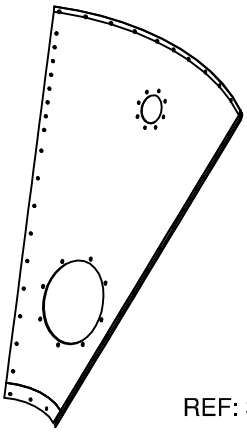
Parts 71
REF: 111.506



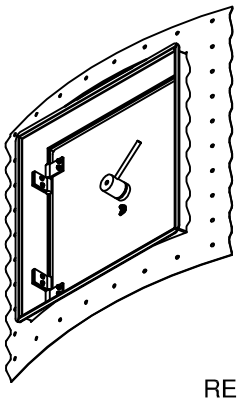
Parts 72
REF: 110.076



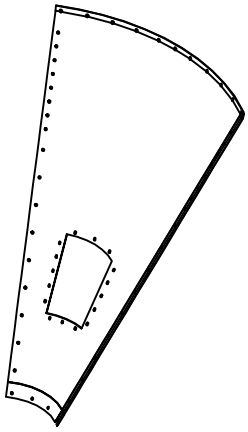
Parts 73
REF: 31G100185A010



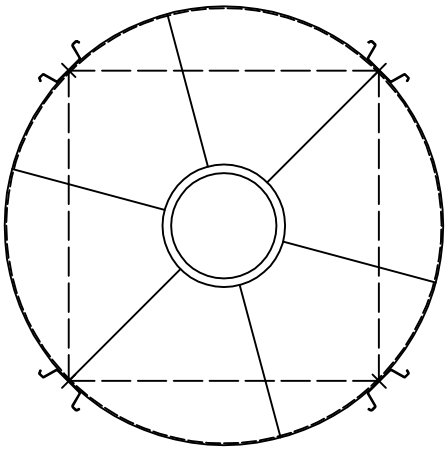
Parts 74
REF: 31G100175A010



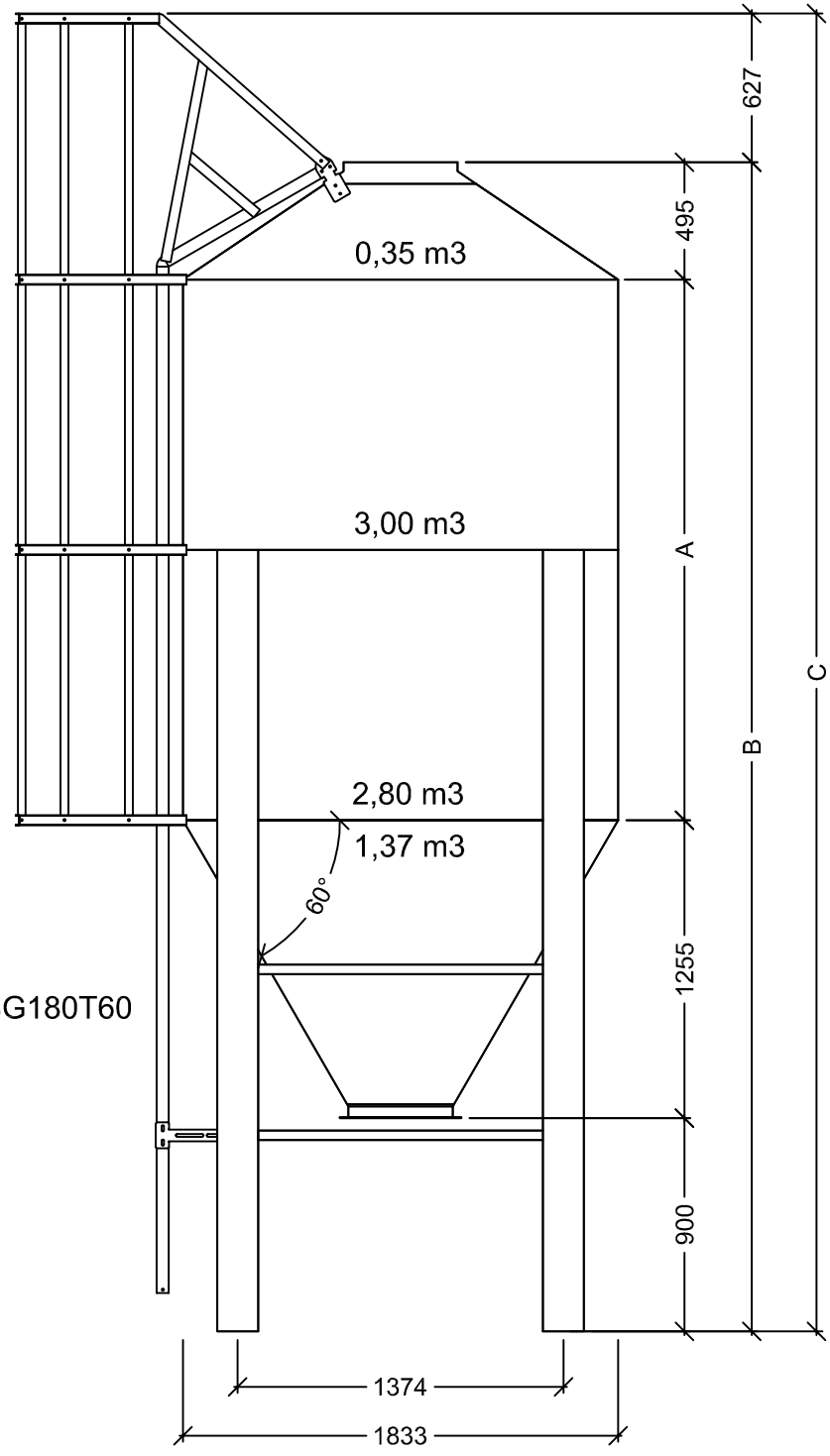
Parts 75
REF: 31G100061A010



Parts 76
REF: ????



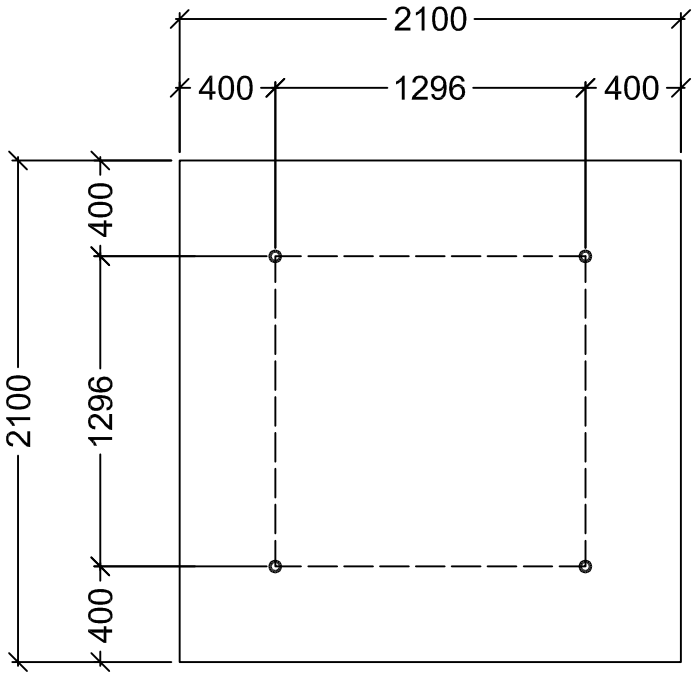
TOP VIEW SG180T60



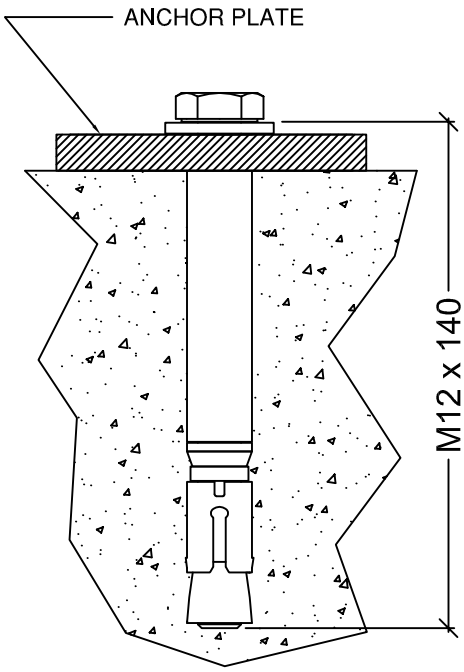
RAISED FRONT VIEW SG180T60

SILO SG180T60					
MODEL	CAPACITY (m3)	A (m)	B (m)	C (m)	WEIGHT (Kg)*
SG180T60/1	4,52 m3	1,140 m	3,790 m	4,417 m	359 Kg
SG180T60/2	7,52 m3	2,280 m	4,930 m	5,557 m	433 Kg
SG180T60/3	10,52 m3	3,420 m	6,070 m	6,697 m	506 Kg

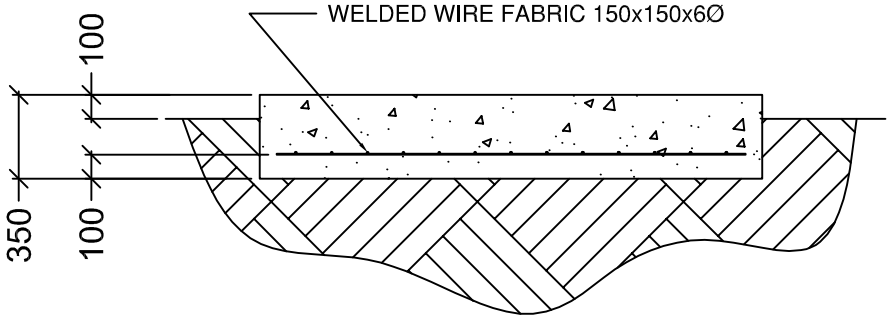
*Maximum weight including ladder and safety cage



ANCHOR BOLTS DISTRIBUTION
IN FOUNDATION



EXPANSION ANCHOR FOR
FASTENING TO CONCRETE



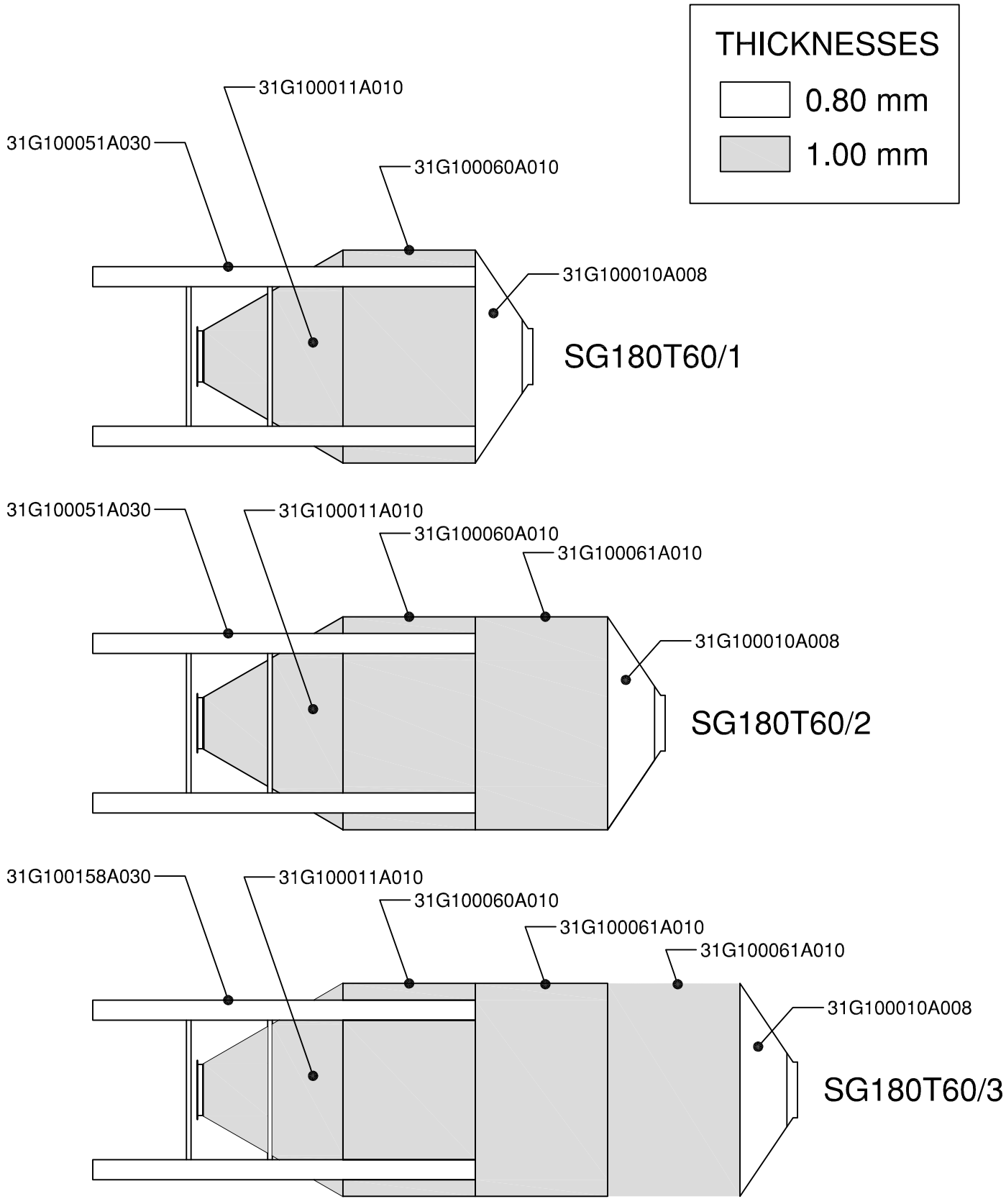
FOUNDATION CROSS SECTION

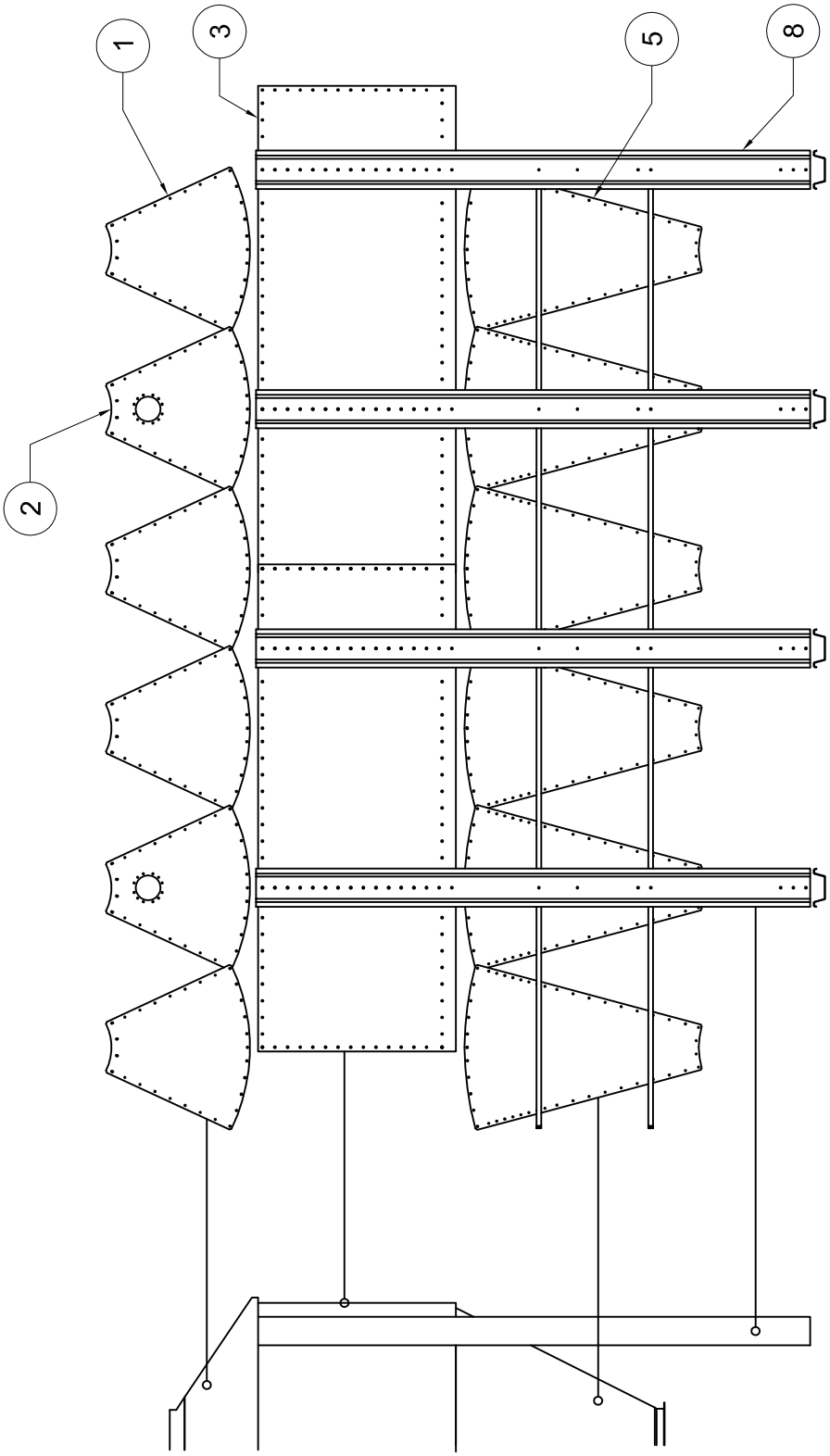
FOUNDATION

All instruction shall be considerated as recomendations only because the installation may vary according to local conditions.

Foundation recomendations are based on a minimum **2 kg/cm2** ground resistance and on a concrete resistance of **250 kg/cm2** at 28 days.

The foundation site must be free of vegetation and debris and well drained.


THICKNESSES
0.80 mm
1.00 mm
31G100011A010
31G100051A030
31G100060A010
31G100010A008
SG180T60/1
31G100051A030
31G100011A010
31G100060A010
31G100061A010
31G100010A008
SG180T60/2
31G100158A030
31G100011A010
31G100060A010
31G100061A010
31G100061A010
31G100010A008
SG180T60/3

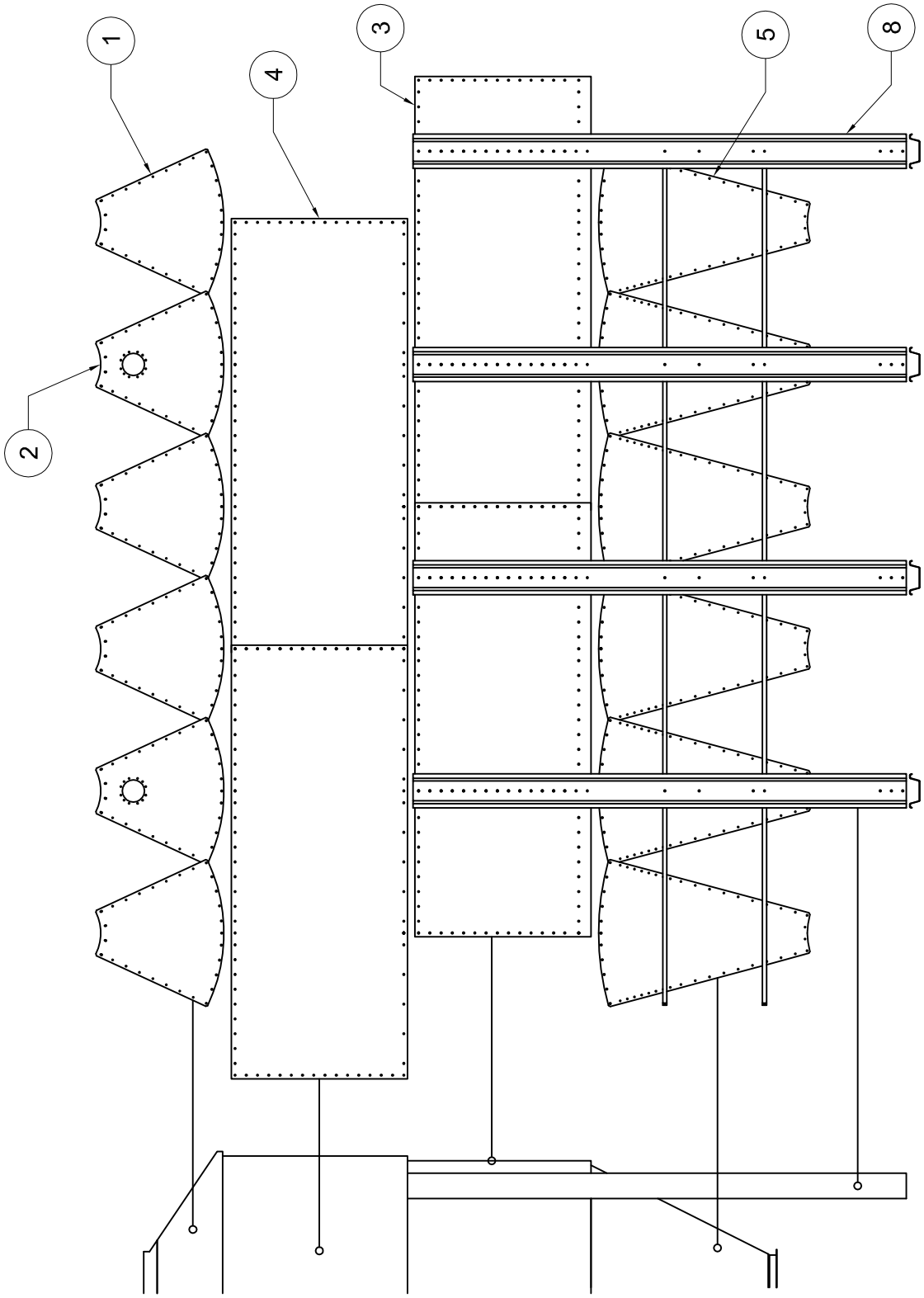


SG180T60/1

Atención a la posición de las juntas verticales de cada nivel con respecto a las de los otros niveles, para comenzar el montaje de un nuevo nivel en la posición correcta.

Care should be given to the position of the vertical sets at each level with respect to those of the other levels, in order to begin the assembly of a new level in the correct position.

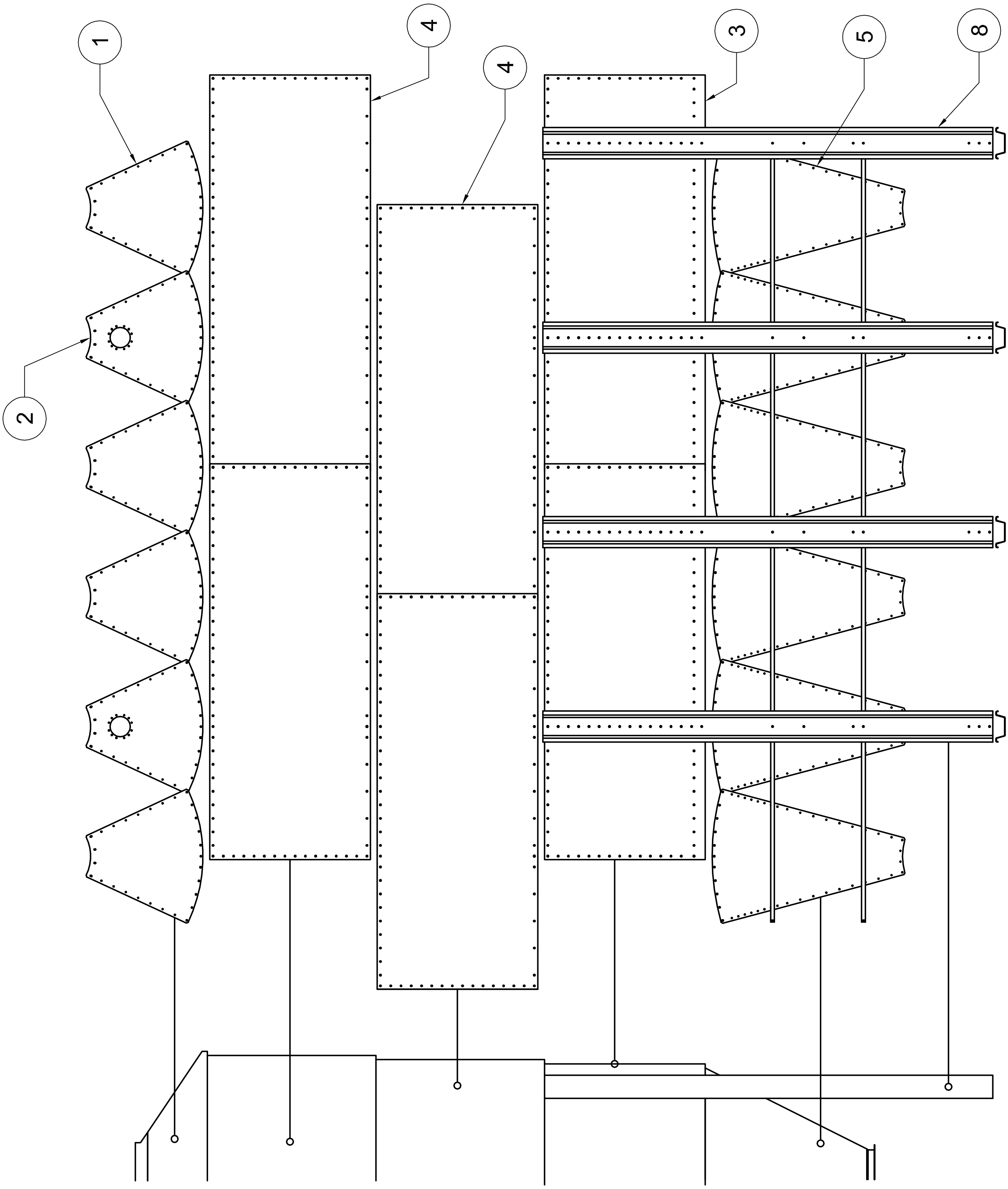
Attention à la position des axes verticaux de chaque niveau par rapport à ceux des autres niveaux, afin de commencer le montage d'un nouveau niveau dans la position correcte.



SG180T60/2

Check the position of the vertical sets at each level with respective ties of other levels, axes of upper sections, axes of roof sections, and front before beginning the assembly of a new level, be certain that is the correct position.

Controlar la posición de los montantes de cada nivel con respectivos tirantes de los otros niveles, ejes de secciones superiores, ejes de secciones de techo y frontal antes de iniciar el montaje de un nuevo nivel, asegúrese que esta posición es correcta.



SG180T60/3

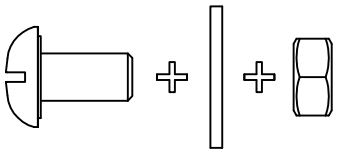
Atención a la posición de las juntas verticales de cada nivel respecto a las de los otros niveles, ejes de sectores de tolva, ejes de sectores de techo y patas. Antes de iniciar el montaje de un nuevo nivel asegúrese que es la posición correcta.

Care should be given to the positioning of the vertical sets at each level with respect to those of other levels, axes of hopper sectors, axes of roof sectors, and feet. Before beginning the assembly of a new level, be certain that is the correct position.

Unión tipo 1
Joint type 1

Tornillo cabeza redonda M8x15 +
arandela metálica ala ancha +
tuerca hexagonal M8

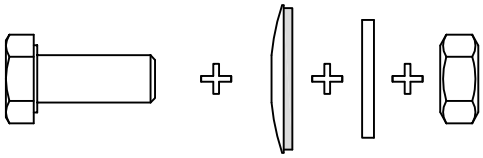
Round head screw M8x15 +
metal washer +
hexagonal nut M8



Unión tipo 2
Joint type 2

Tornillo cabeza hexagonal M8x20 +
arandela junta de goma +
arandela metálica +
tuerca hexagonal M8

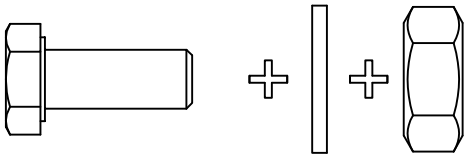
Hexagonal head screw M8x20 +
rubber washer +
metal washer +
hexagonal nut M8



Unión tipo 3
Joint type 3

Tornillo cabeza hexagonal M8x30 +
arandela metálica ala ancha +
tuerca hexagonal M8

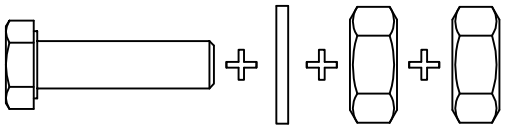
Hexagonal head screw M8x30 +
metal washer +
hexagonal nut M8



Unión tipo 4
Joint type 4

Tornillo cabeza hexagonal M8x30 +
arandela metálica +
tuerca hexagonal M8

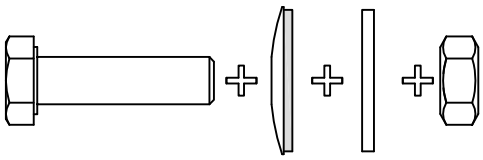
Hexagonal head screw M8x30 +
metal washer +
hexagonal nut M8



Unión tipo 5
Joint type 5

Tornillo cabeza hexagonal M8x30 +
arandela junta de goma +
arandela metálica ala ancha +
tuerca hexagonal M8

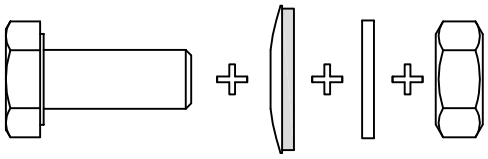
Hexagonal head screw M8x30 +
rubber washer +
metal washer +
hexagonal nut M8



Unión tipo 6
Joint type 6

Tornillo cabeza hexagonal M10x25 +
arandela junta de goma +
arandela metálica +
tuerca hexagonal M10

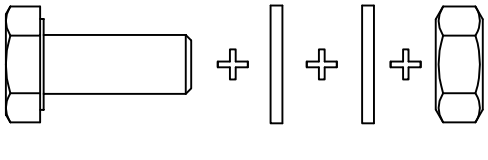
Hexagonal head screw M10x25 +
rubber washer +
metal washer +
hexagonal nut M10



Unión tipo 7
Joint type 7

Tornillo cabeza hexagonal M10x25 +
arandela metálica +
arandela metálica +
tuerca hexagonal M10

Hexagonal head screw M10x25 +
metal washer +
metal washer +
hexagonal nut M10



Todos los tornillos deben ser apretados sólo desde el lado de la tuerca. Al apretar las tuercas hay que impedir que gire la cabeza del tornillo para evitar que se dañen las juntas de goma.

All bolts are to be tightened from the nut side only. Do not allow bolt heads to spin to avoid damages in rubber joints.

Se pueden utilizar punteros para ayudar a alinear los agujeros.

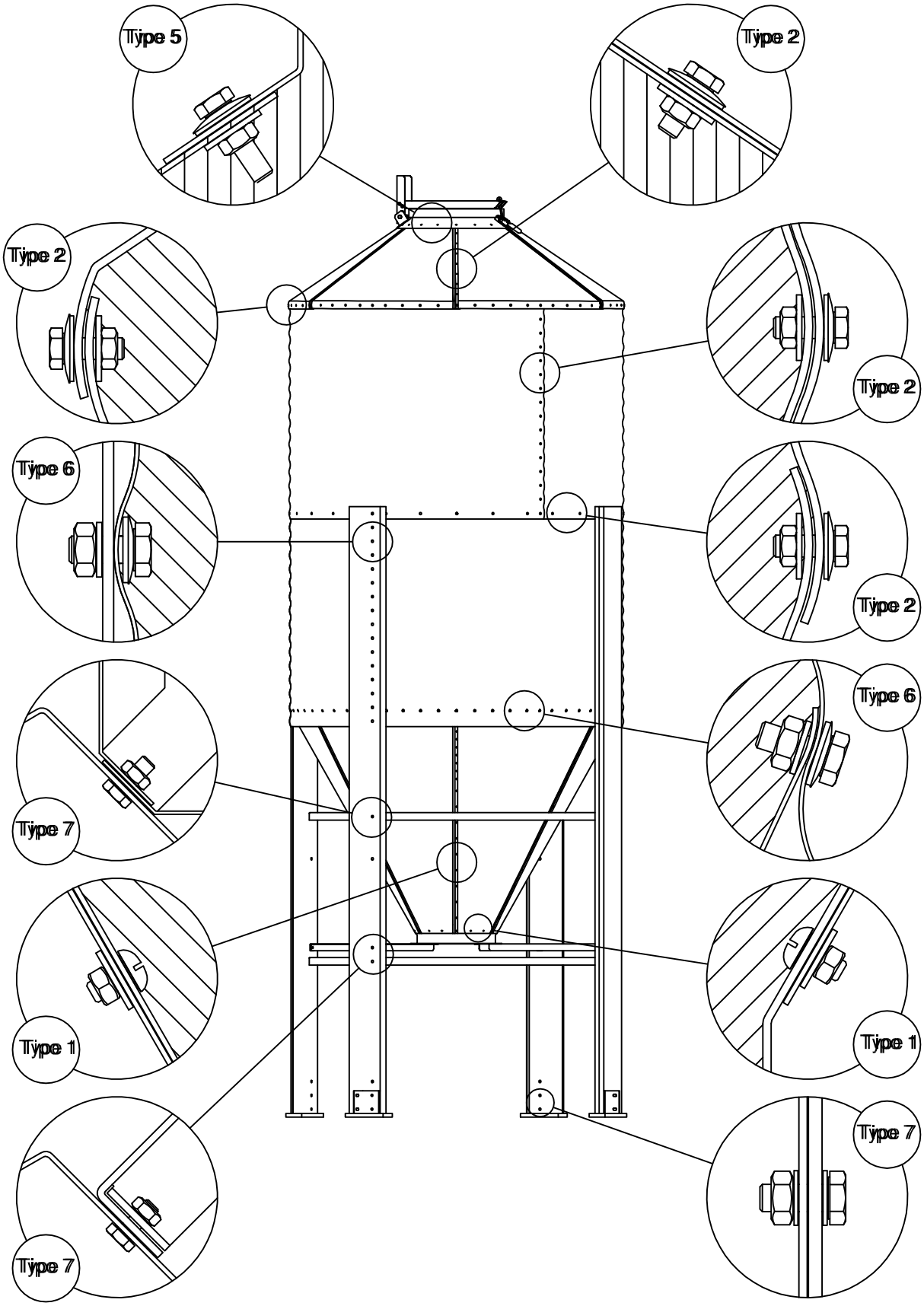
Drift punches can be used to align holes.

Antes de introducir los tornillos debe comprobar que en esa posición, tanto el tipo de junta como la dirección en la que se introduce el tornillo es correcto. Asegúrese que toda la tornillería concuerda con el esquema de la página siguiente.

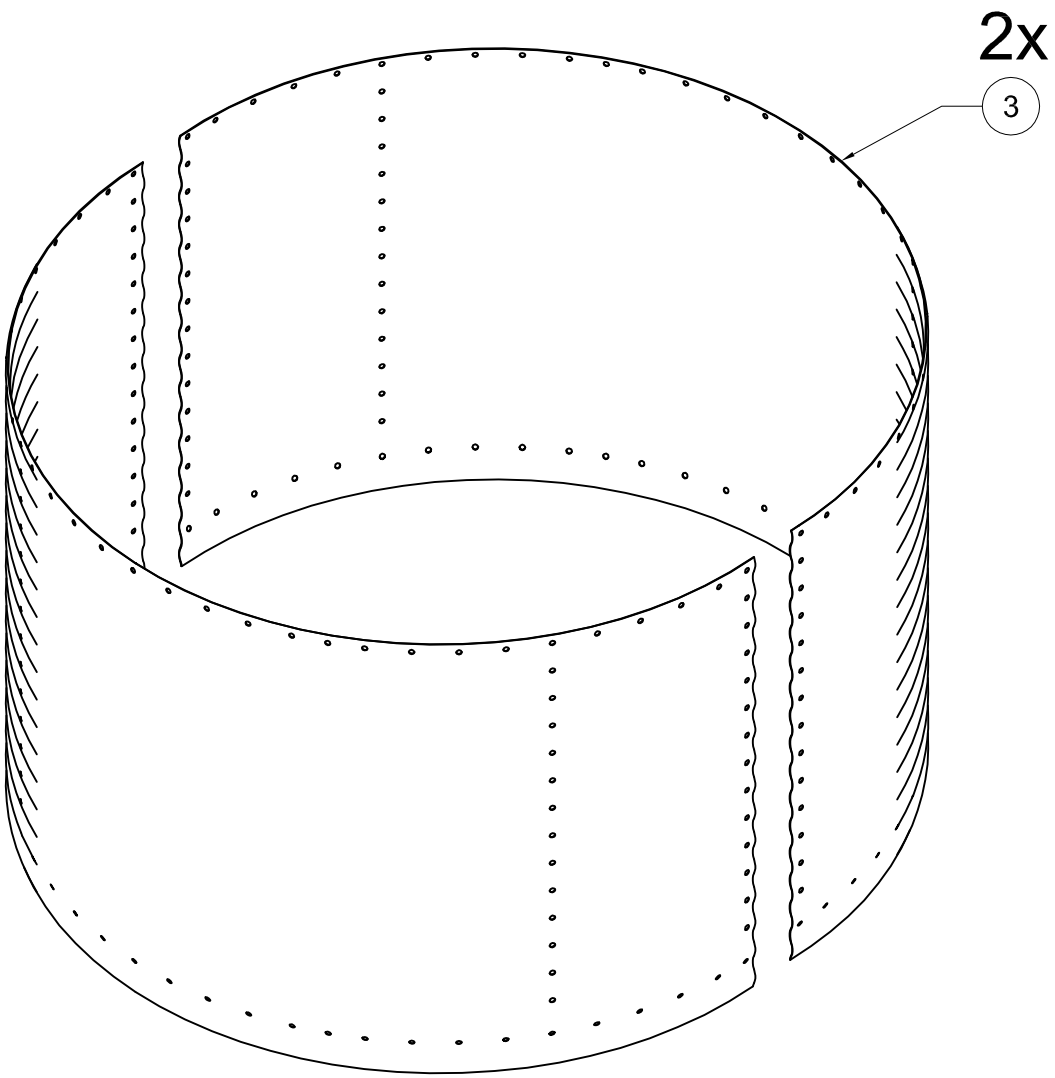
Before inserting the screws should be checked that in this position both the type of joint as the direction in which you enter the screw is correct. Make sure all bolts are consistent with the pattern on the next page.

IMPORTANTE: Apretar los tornillos con un par comprendido entre 13Nm y 26Nm.

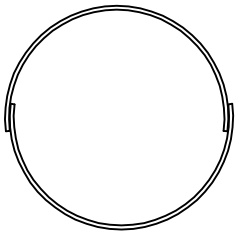
IMPORTANT: Tighten bolts with a torque wrench between 13Nm y 26Nm.



Types of joints and their different positions.
Especificaciones de tornillos sinfín y sus variantes.



IMPORTANTE: Solapar las placas en la posición correcta
IMPORTANT: Overlap the plates in the correct position



El orden de montaje correcto es: nivel inferior, nivel/es intermedio/s, y nivel superior. Comenzar siempre el montaje por el anillo inferior. Las placas de este nivel se distingue fácilmente de las de otros niveles porque son las que tienen líneas intermedias de agujeros para colocar las patas del silo.

The order of correct assembly is: lower level, intermediate level, upper level. Always begin assembly with the bottom ring. Bottom-level plates can be easily distinguished from those of other levels because they have intermediate lines of screw holes to locate the feet of the silo.

Es importante solapar las placas en la posición correcta, tal y como se indica en la figura adjunta.

It is important to overlap the plates in the correct position, only as per instructions in the figure above.

Durante el montaje del primer nivel, utilice dos destornilladores largos para aproximar las placas entre sí y facilitar su conexión.

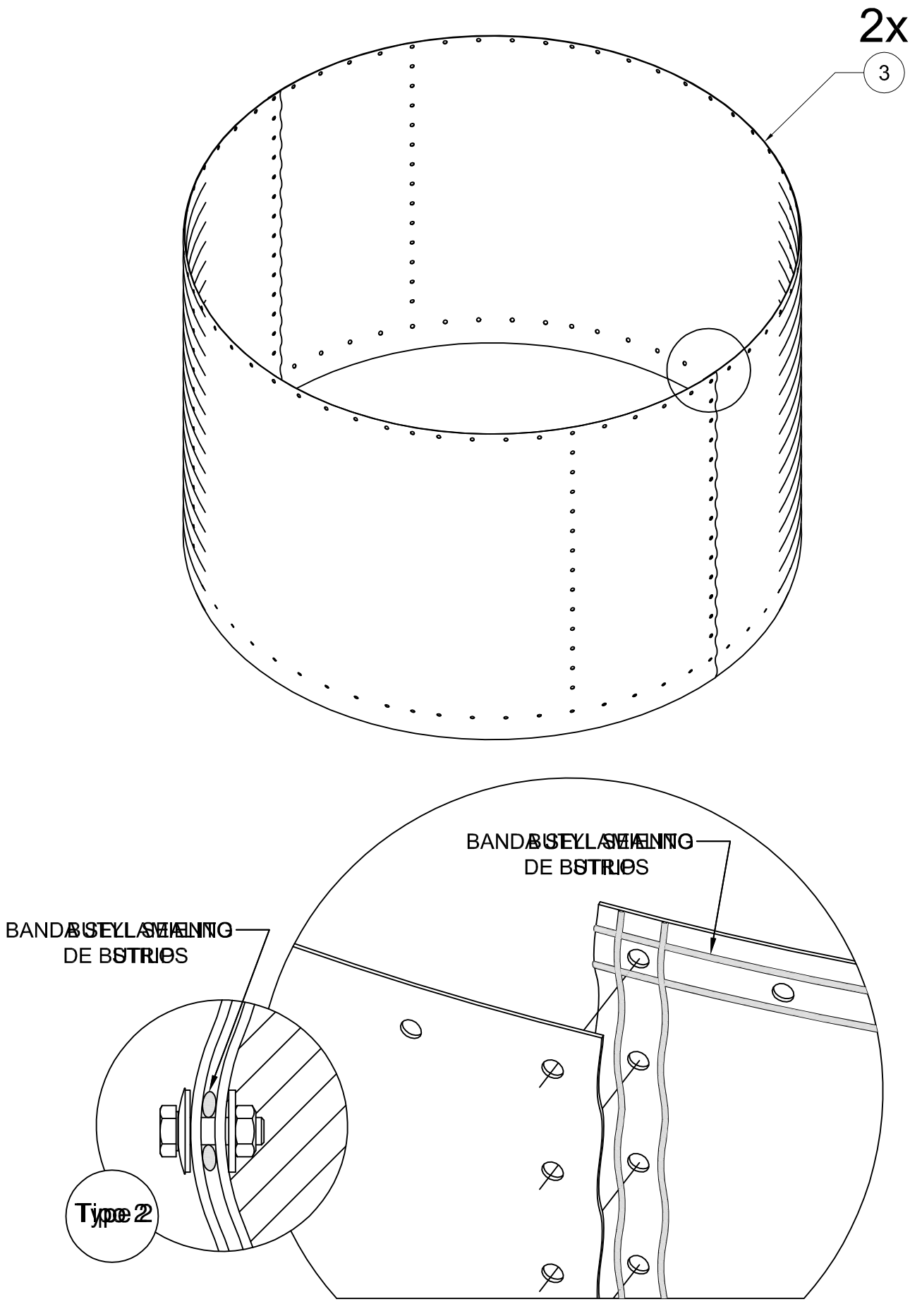
During assembly of the first level, use two long screwdrivers to set the plates in relation to each other, and to make them easier to connect.

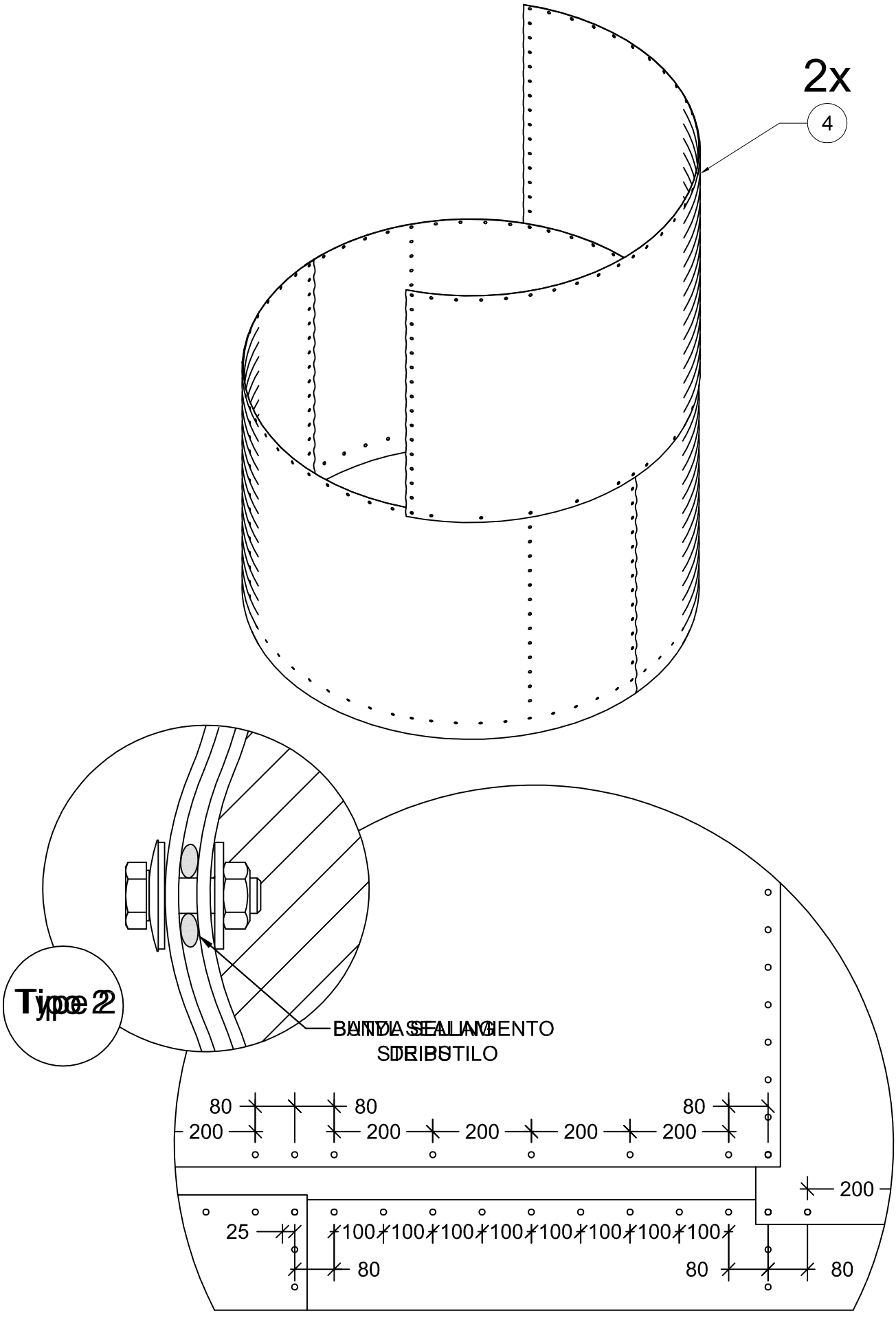
Debe desengrasar correctamente las zonas donde va a pegar las bandas de sellamiento para favorecer su adherencia.

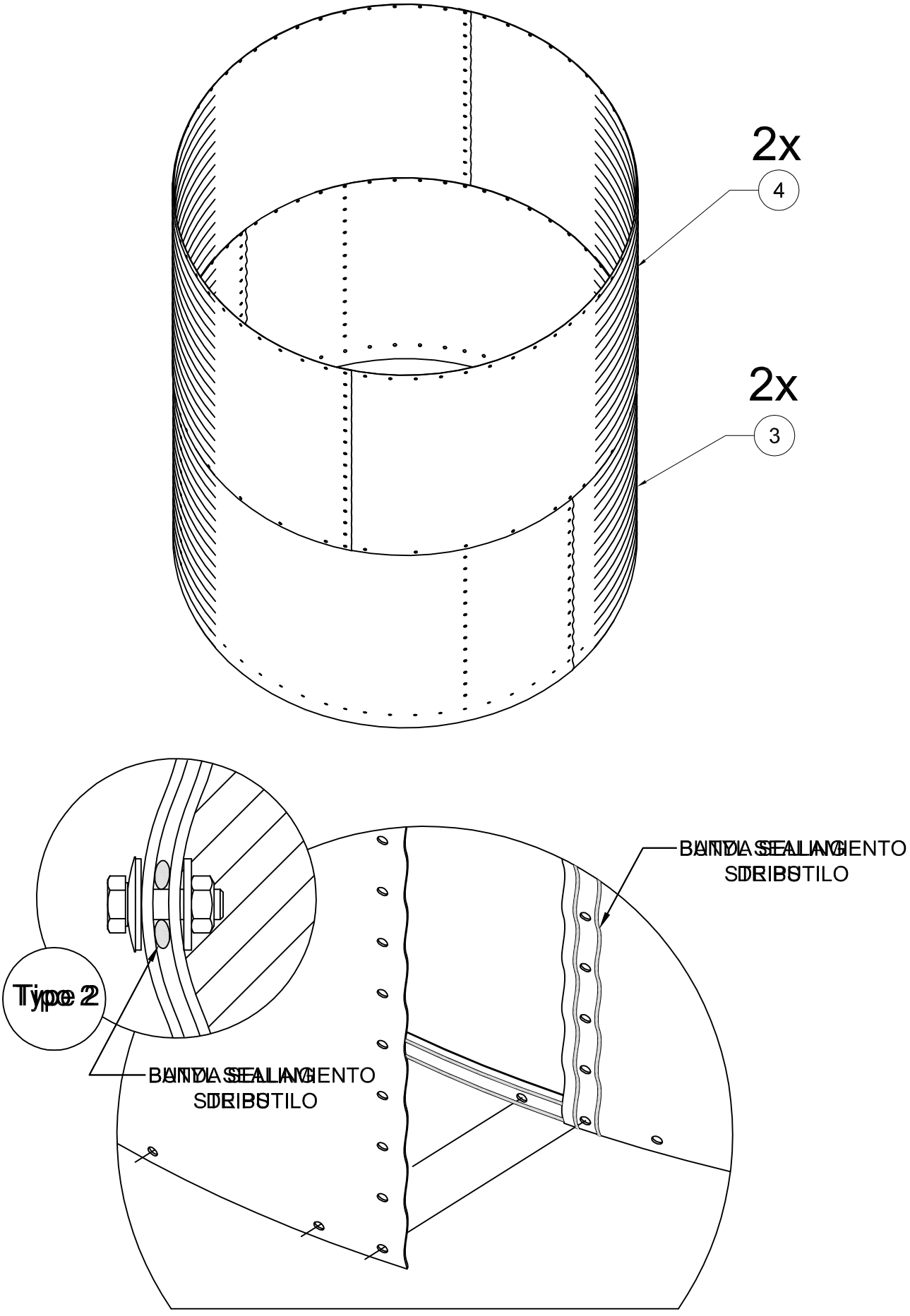
Zones where sealing strips are to be placed should be properly degreased to facilitate adhesion.

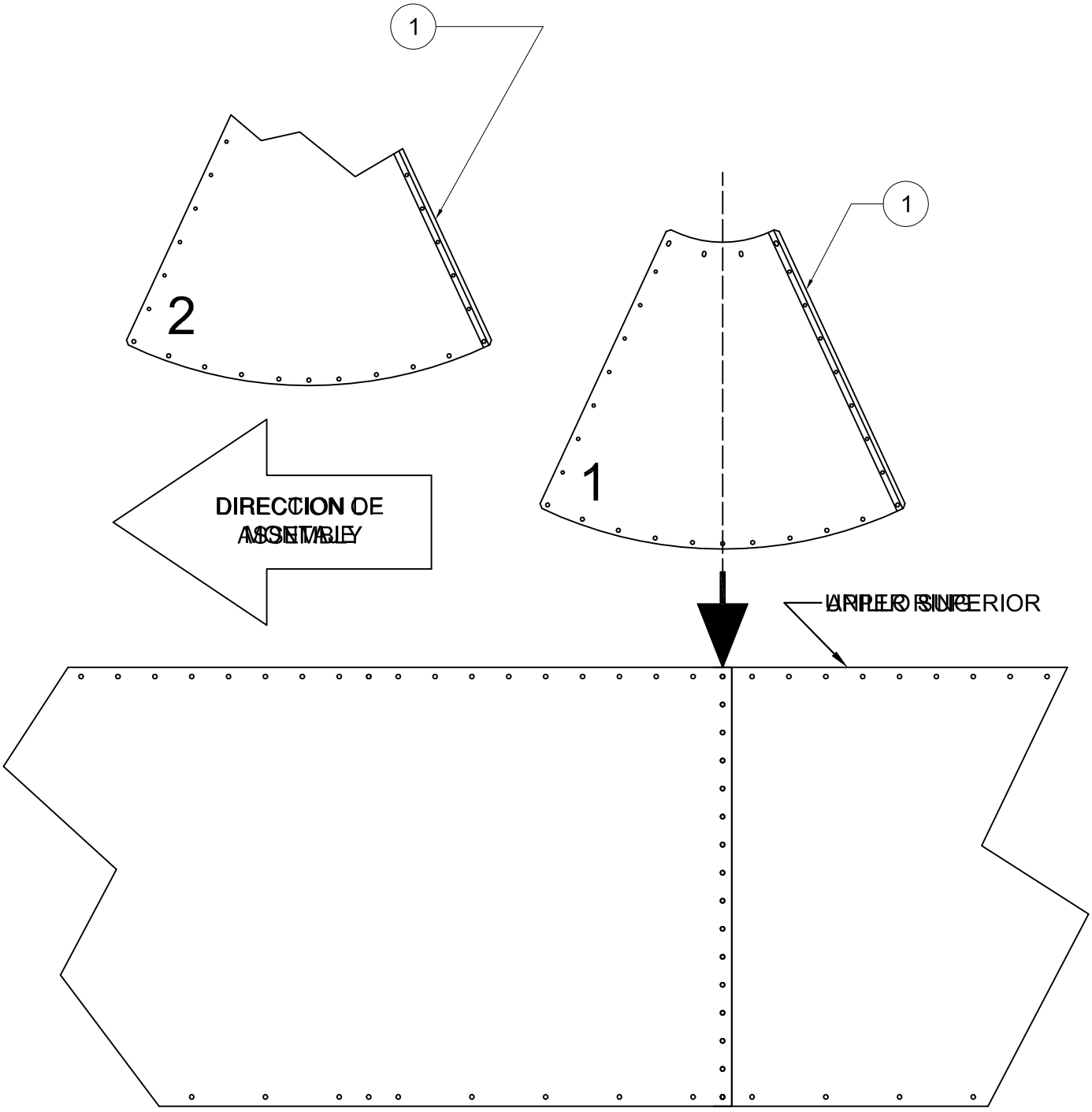
Inserte los tornillos en el sentido correcto, y siga las instrucciones indicadas (pag 11) para su correcto apretado.

Insert the screws in the right direction and follow the instructions on page 11 for correct tightening.


2x
3
BANDA ESTILO VIENTO
DE BISTROS
BANDA ESTILO VIENTO
DE BISTROS
Type 2

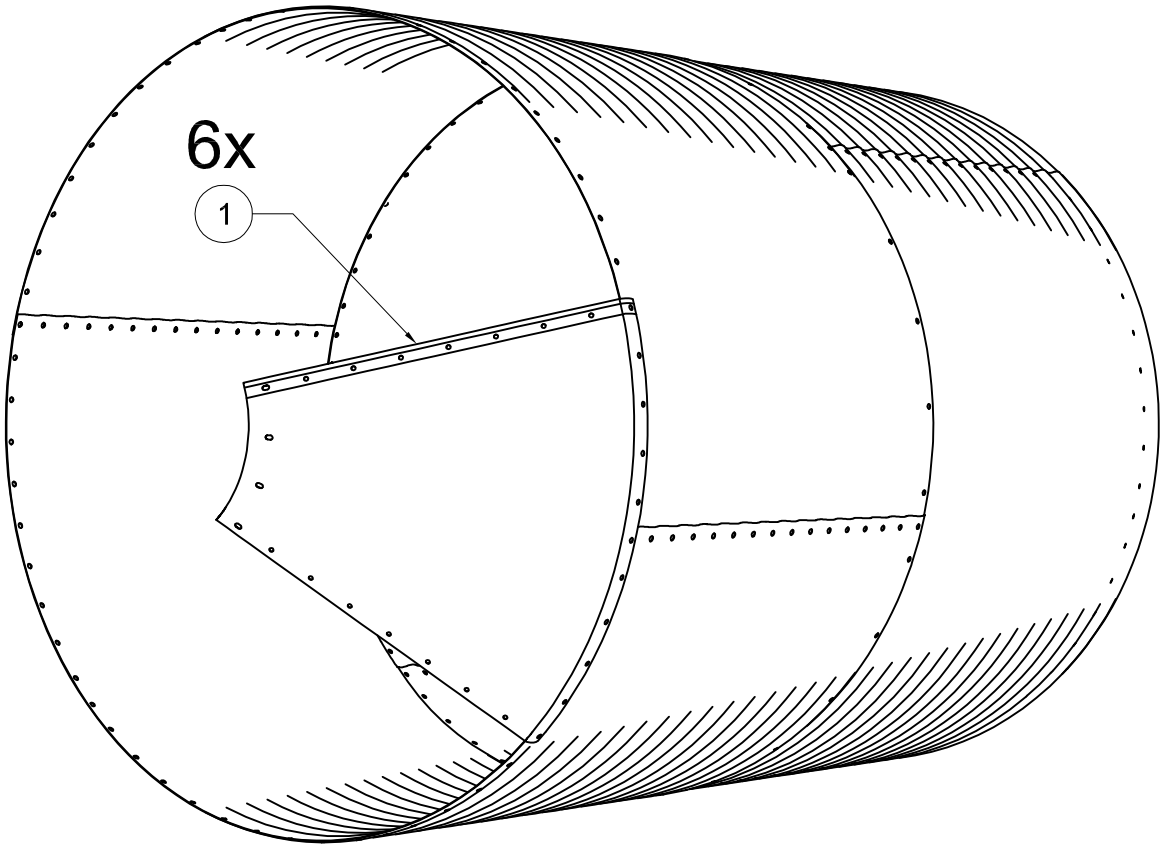

2x
4
Type 2
BANDA SELLANTE
SEALANT STRIP
80
200
25
100
80

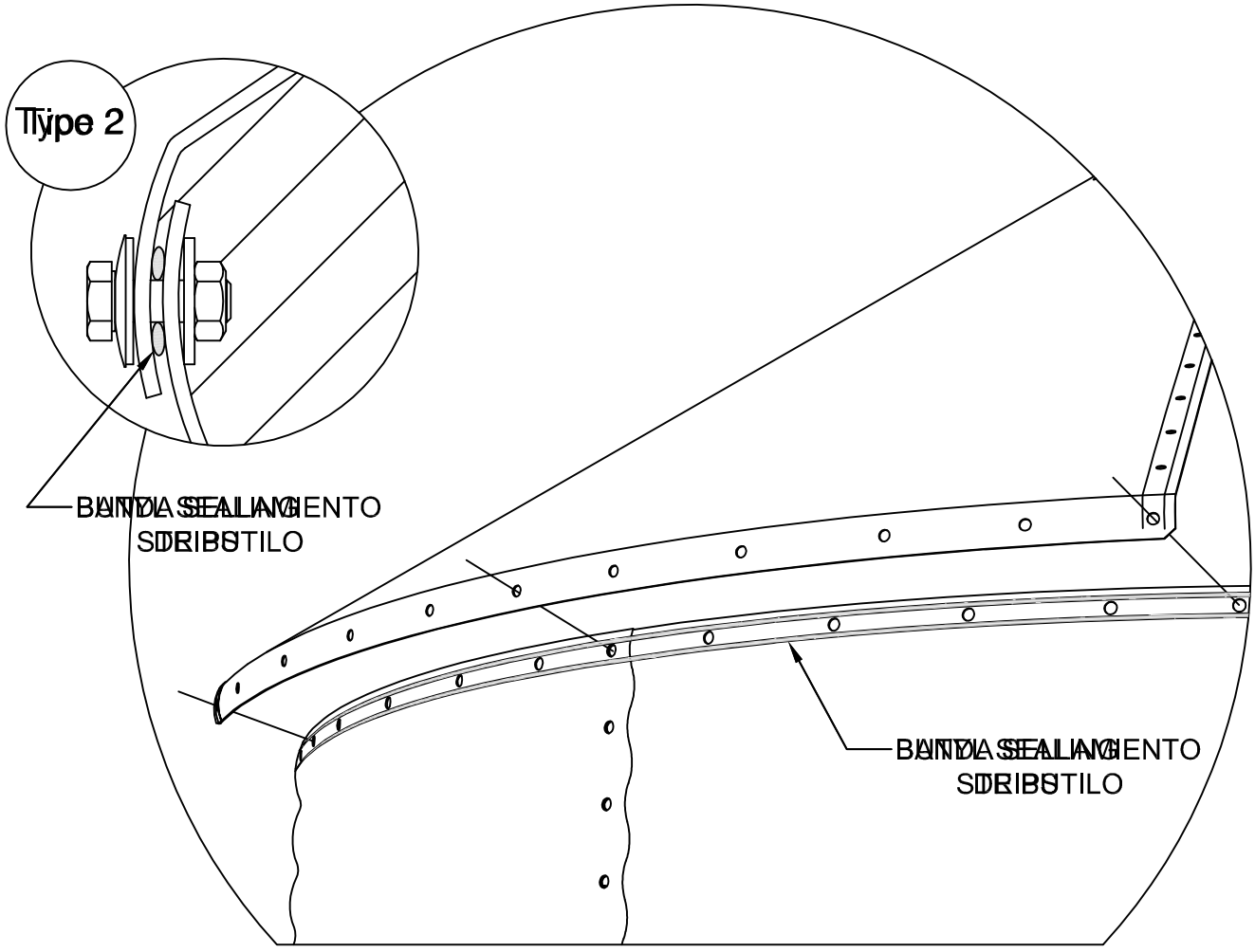

2x
4
2x
3
Type 2
BANDA SELLANTE
SEALING TAPE
BANDA SELLANTE
SEALING TAPE

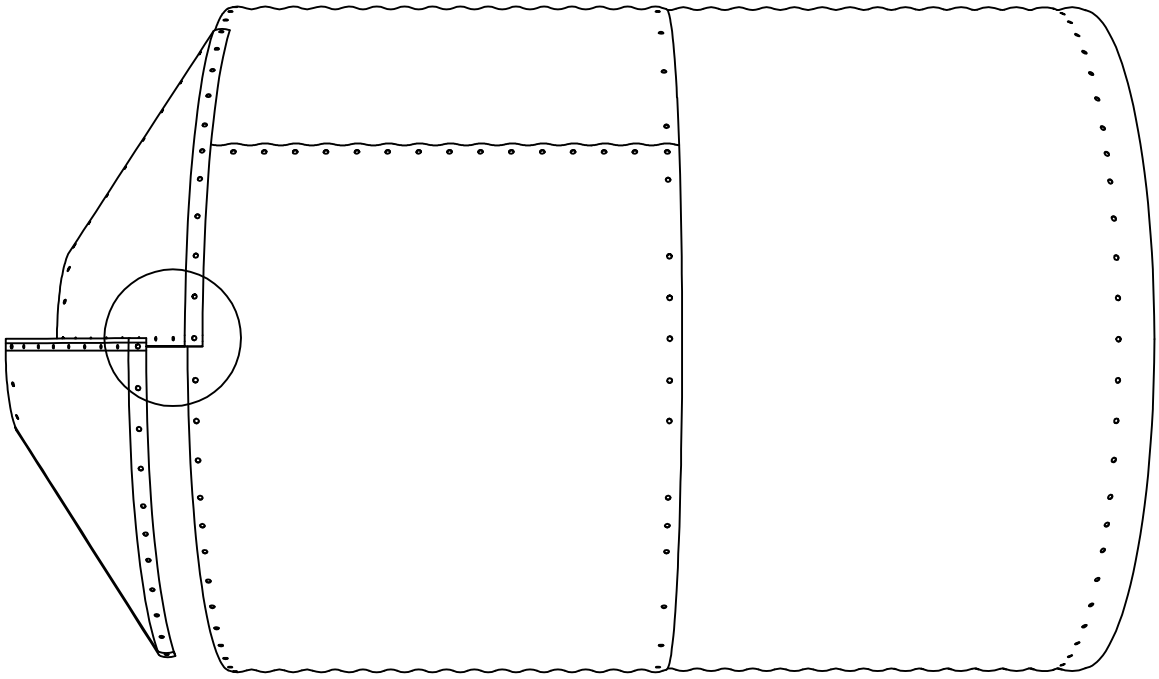


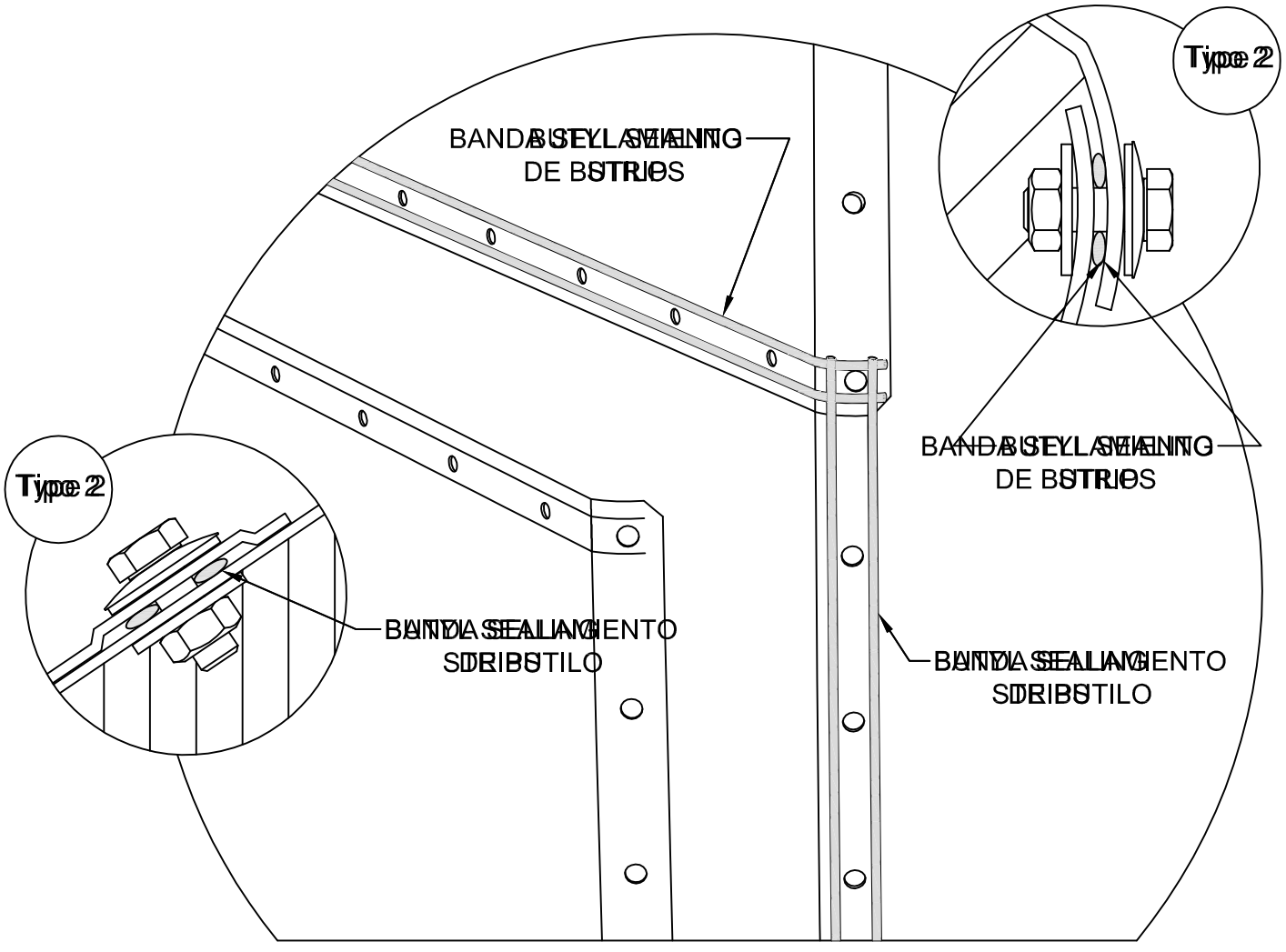
Para iniciar el montaje del techo, debe hacer coincidir el centro de un sector de techo con cualquiera de las tres juntas verticales de unión del anillo superior. Es importante solapar los sectores en la posición correcta, tal y como se indica en figuras adjuntas.
En el caso de disponer de carga neumática, debe comenzar el montaje del techo de la misma manera y siempre con un sector ciego. Una vez colocado ese primer sector debe guiarse por el esquema general (pag10).
Debe desengrasar correctamente las zonas donde va a pegar las bandas de sellamiento para favorecer su adherencia.
Inserte los tornillos en el sentido correcto, y siga las instrucciones indicadas (pag 11) para su correcto apretado.

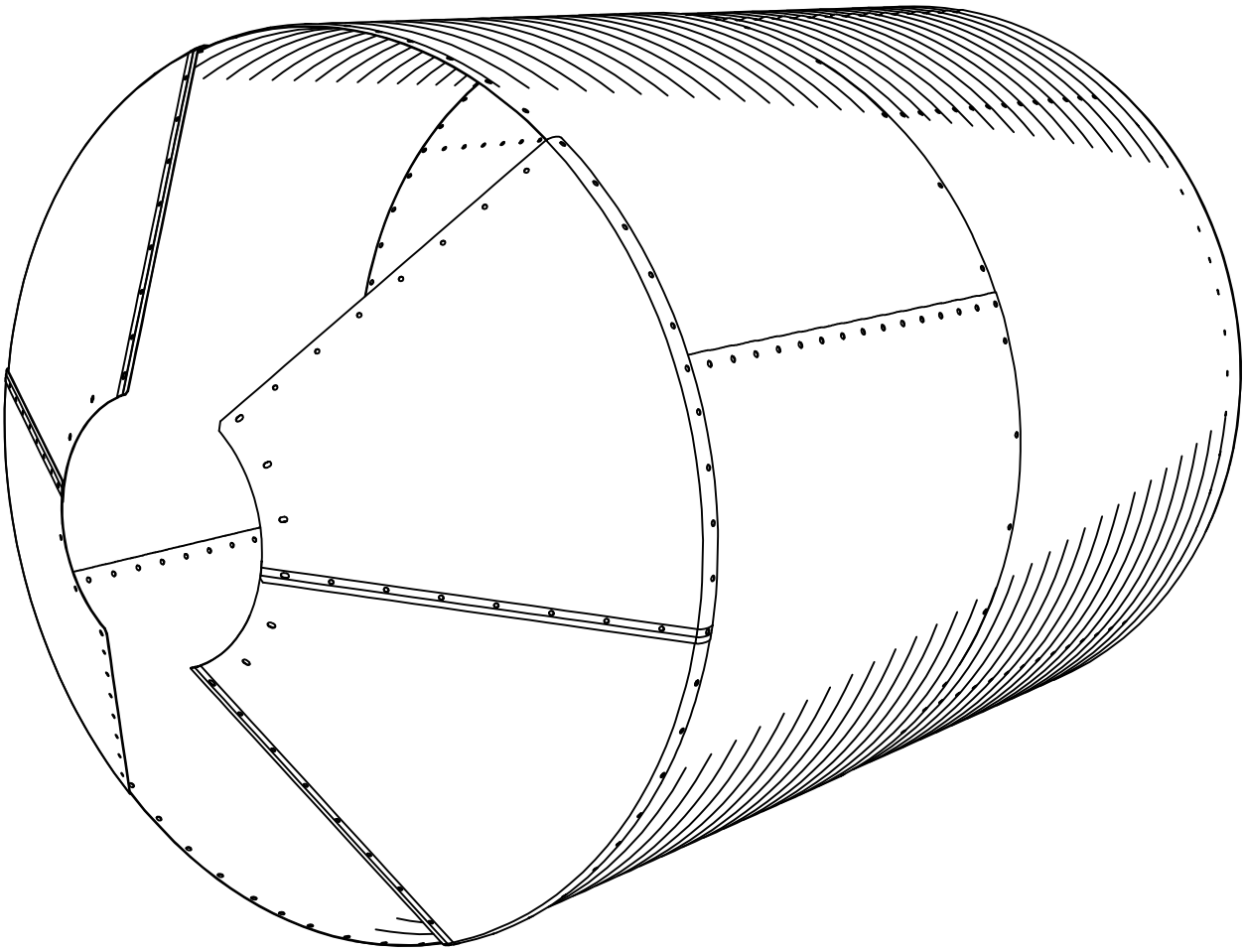
To begin the assembly of the roof, align the center of one roof sector with any one of the three vertical joints from the seal of the upper ring. It is important to overlap the sectors in the correct position, only and per the instructions in the figures included. In the case of enabling the pneumatic load, assembly should begin from the roof in the same way and always with a blind sector. Once positioned, that first sector should follow the general schematic (page 10).
Zones where butyl sealing strips are to be placed should be properly degreased to ensure complete adhesion.
Insert the screws in the right direction and follow the instructions indicated on page 11 for correct tightening.


6x
1


Type 2
BANDA SELLANTE
SEALING TAPE
BANDA SELLANTE
SEALING TAPE

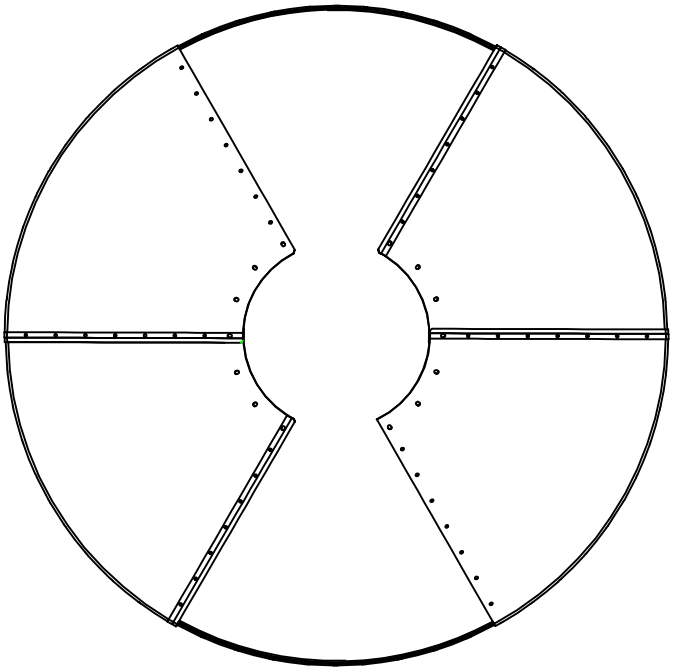


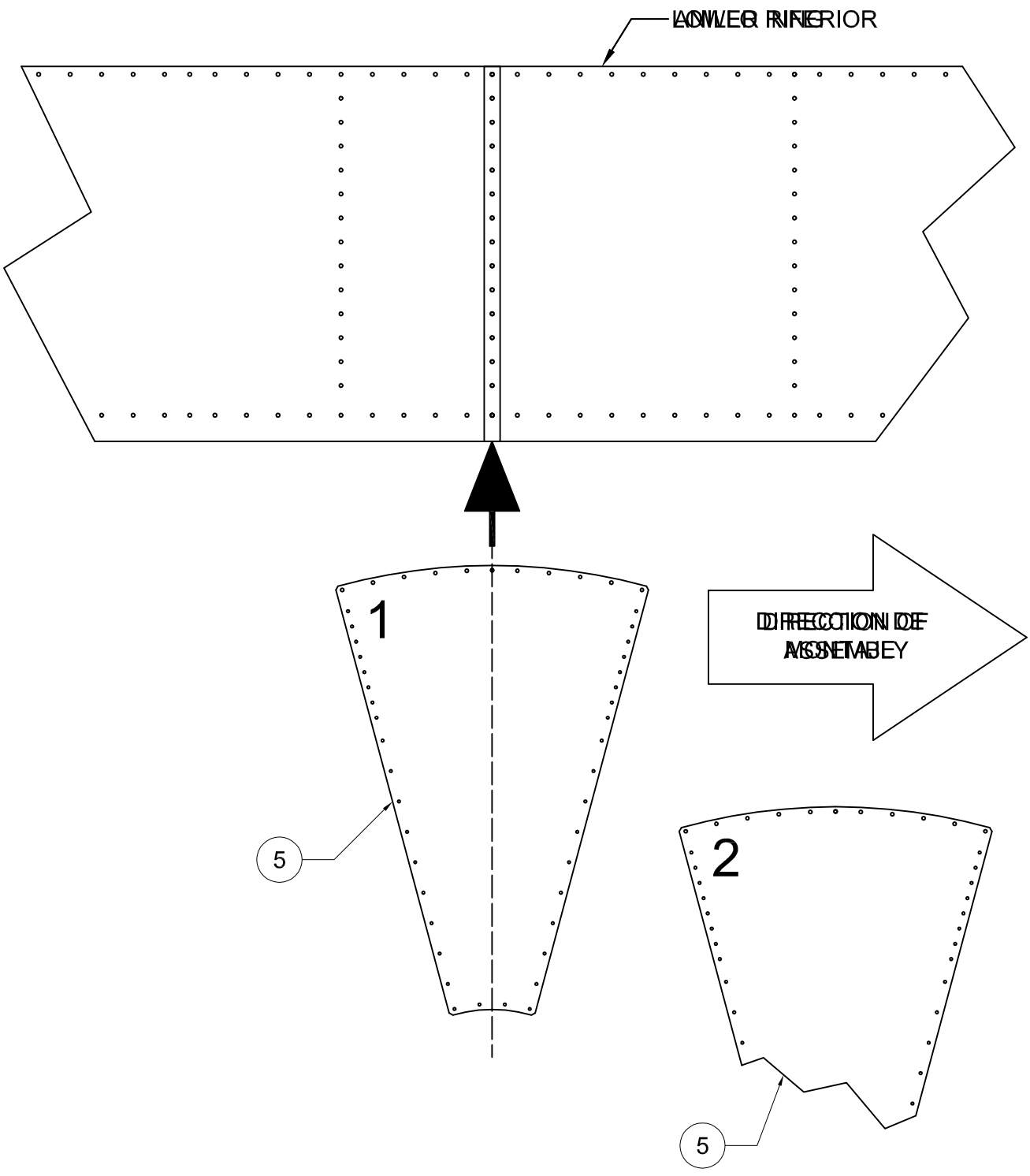

Type 2
BANDA SELLANTE DE BUTILO
BUTYL SEALING STRIP
Type 2
BANDA SELLANTE DE BUTILO
BUTYL SEALING STRIP
BANDA SELLANTE DE BUTILO
BUTYL SEALING STRIP
BANDA SELLANTE DE BUTILO
BUTYL SEALING STRIP



Si el ensamblaje se realiza en el mismo lugar de la instalación, se recomienda que la primera virola se monte directamente sobre la solera de hormigón.
Para el montaje de la cubierta y la tolva se pueden montar dos sectores opuestos y proceder a izar el silo para continuar el montaje.
Para el montaje de la cubierta y la tolva se pueden montar dos sectores opuestos y proceder a izar el silo para continuar el montaje.

If the assembly is being done directly on the floor, we recommend that the first ring be assembled on the concrete base. This will allow the assembly to proceed without having to raise the silo to continue assembly.
To assemble the roof and the hopper, assemble the two sectors opposite each other, as shown in the figure. Then follow the same procedure with the two remaining sectors. Once the four sectors of the roof and hopper have been assembled, the assembly of the roof and the corresponding sectors of the hopper can proceed when the silo is rotated 90 degrees.





Para iniciar el montaje de la tolva, sitúe el sector 1 en el lugar correcto de la tolva y coloque verticalmente las juntas de unión. Es importante que las juntas se solapen correctamente, como se muestra en la figura.

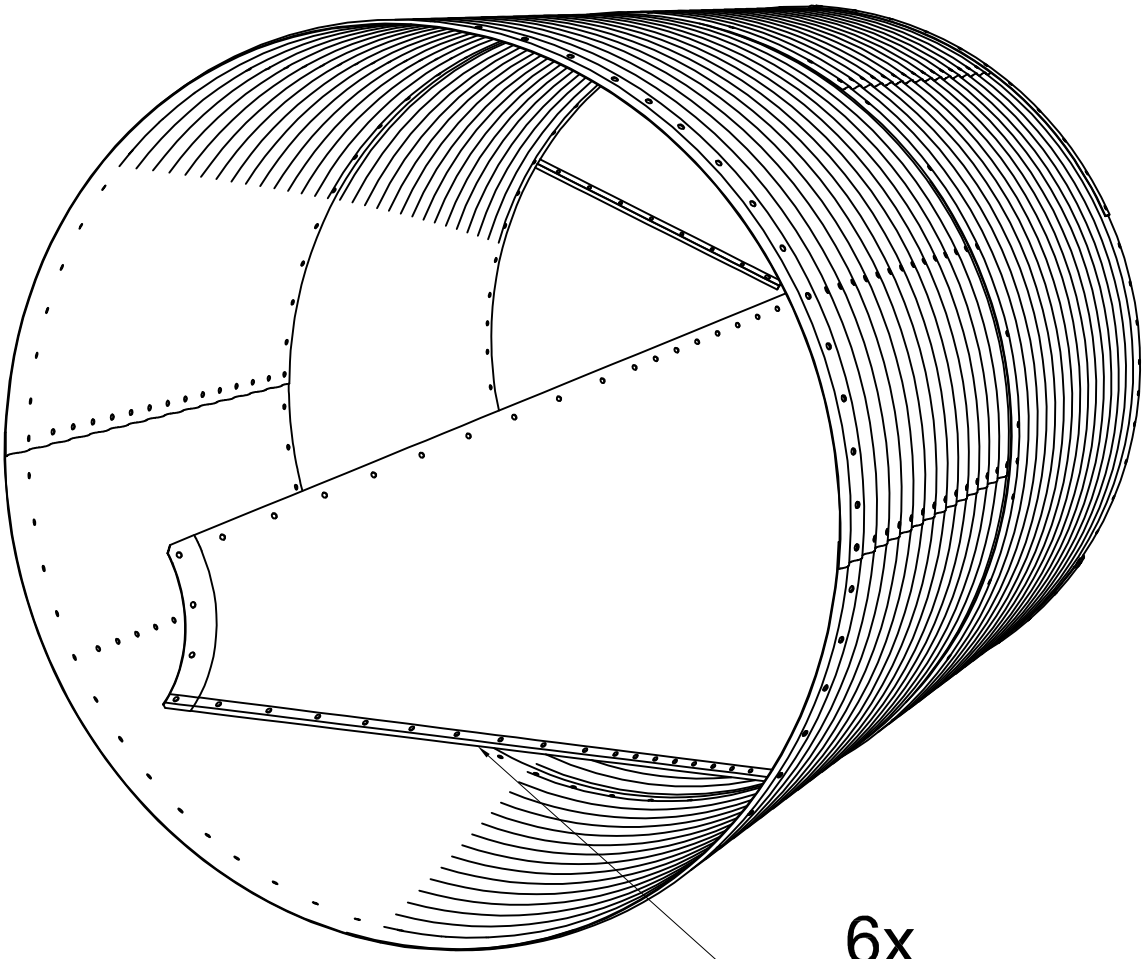
Una vez colocado, fije el primer sector dándole una pequeña soldadura por cada lado.

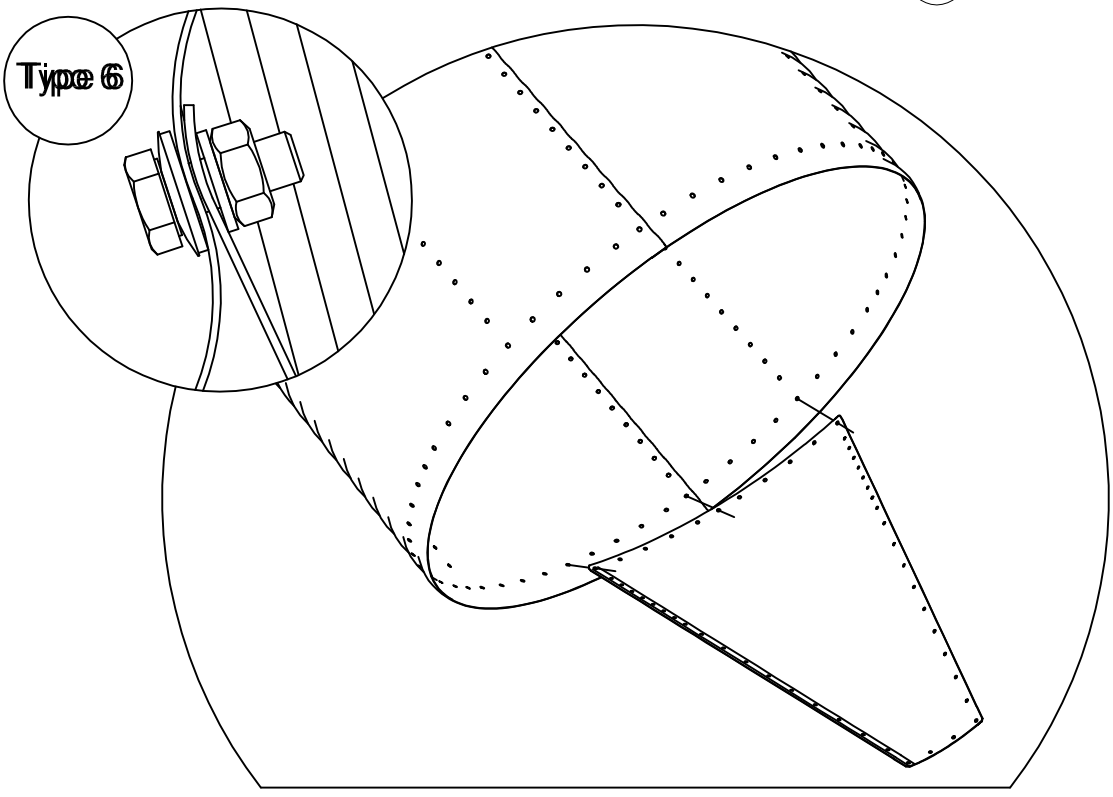
Inserte los tornillos en el sentido correcto, y siga las instrucciones indicadas en la página 11 para su correcto apriete.

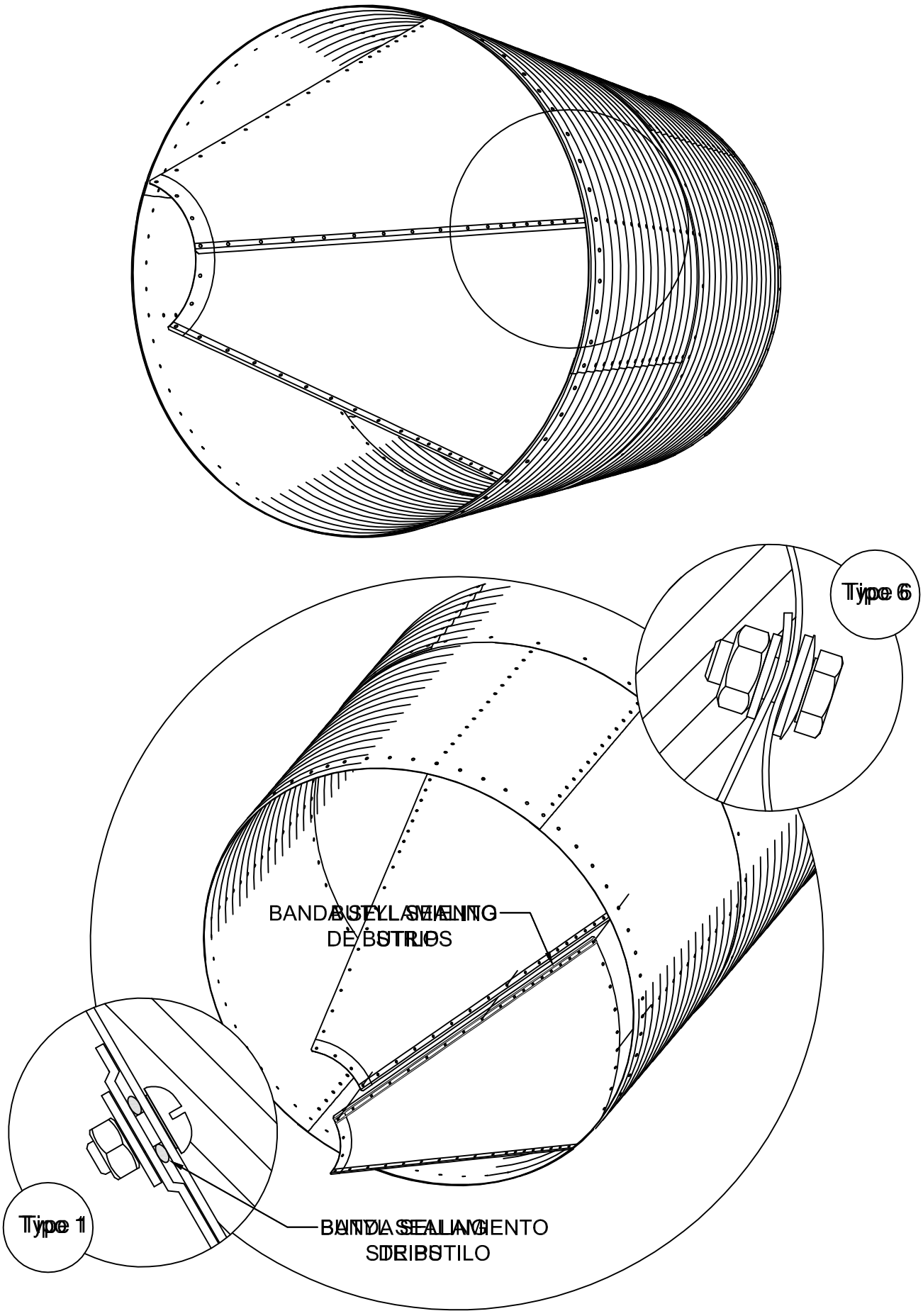
To begin assembly of the hopper, position sector 1 in the correct location of the hopper and place the vertical seam joints correctly. It is important to ensure that the seals are positioned exactly as shown in the adjoining figures.

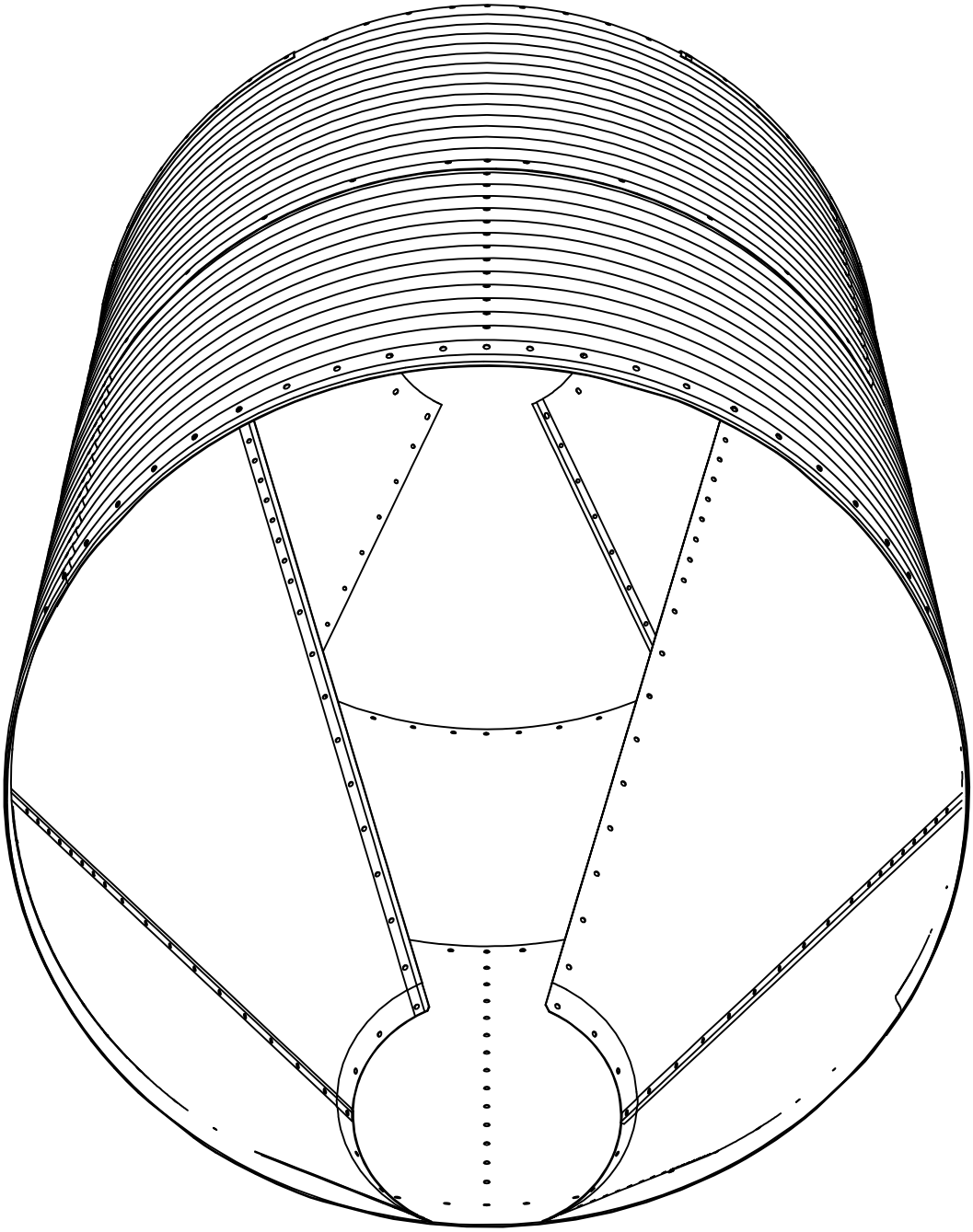
Once in position, tack weld the first sector in place at each end.

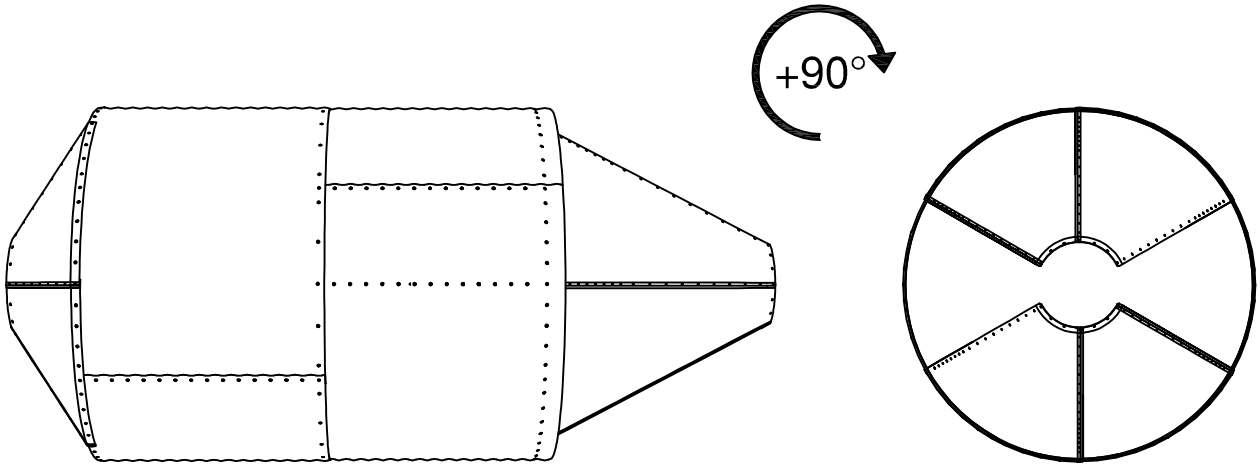
Insert the screws in the right direction, and follow the instructions indicated on page 11 to tighten them correctly.


6x
5


Type 6

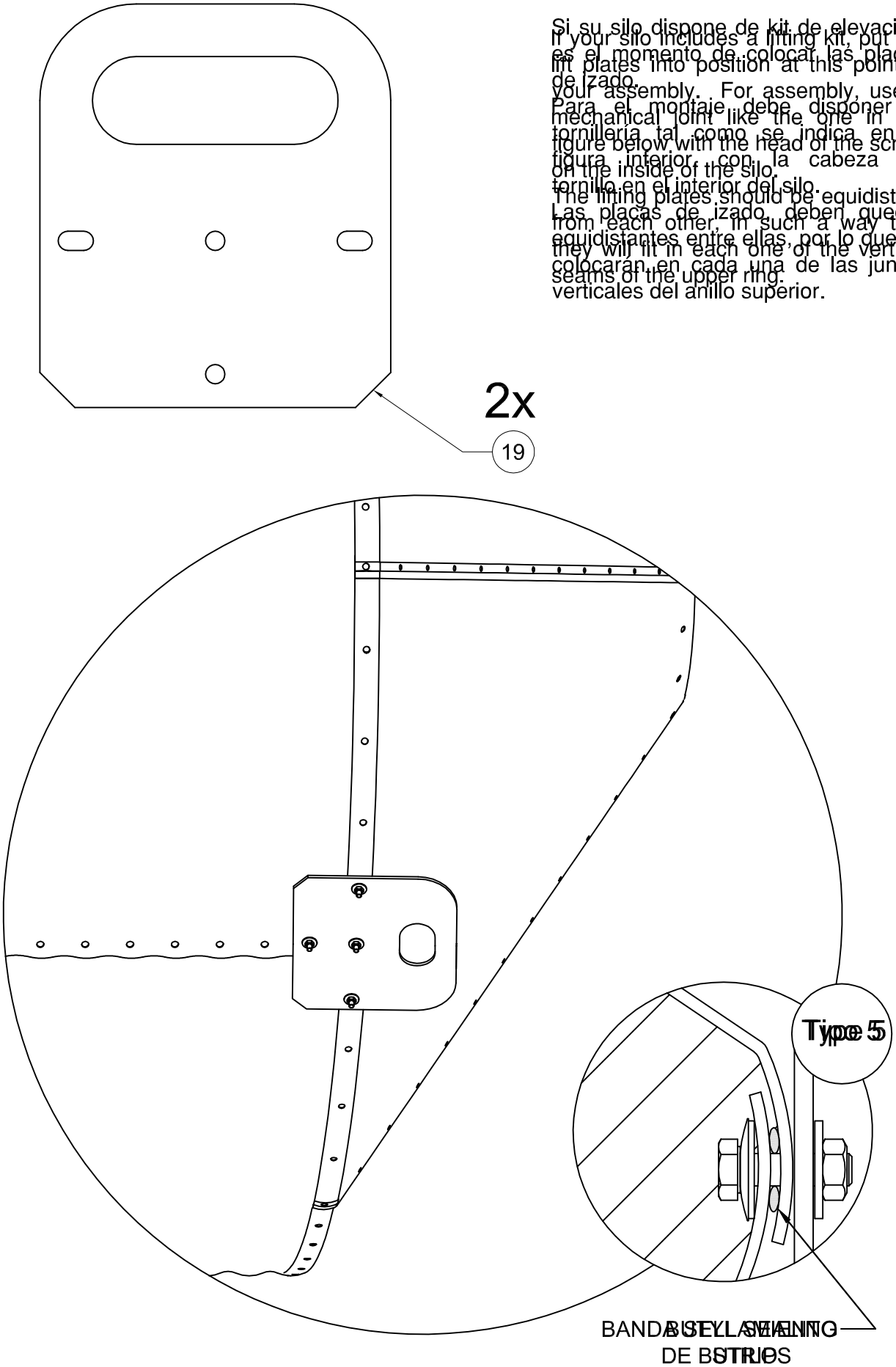

Type 6
BANDA SELLANTE DE BUTILO
SEALANT TAPE
Type 1
BANDA SELLANTE DE BUTILO
SEALANT TAPE
EXTERIOR

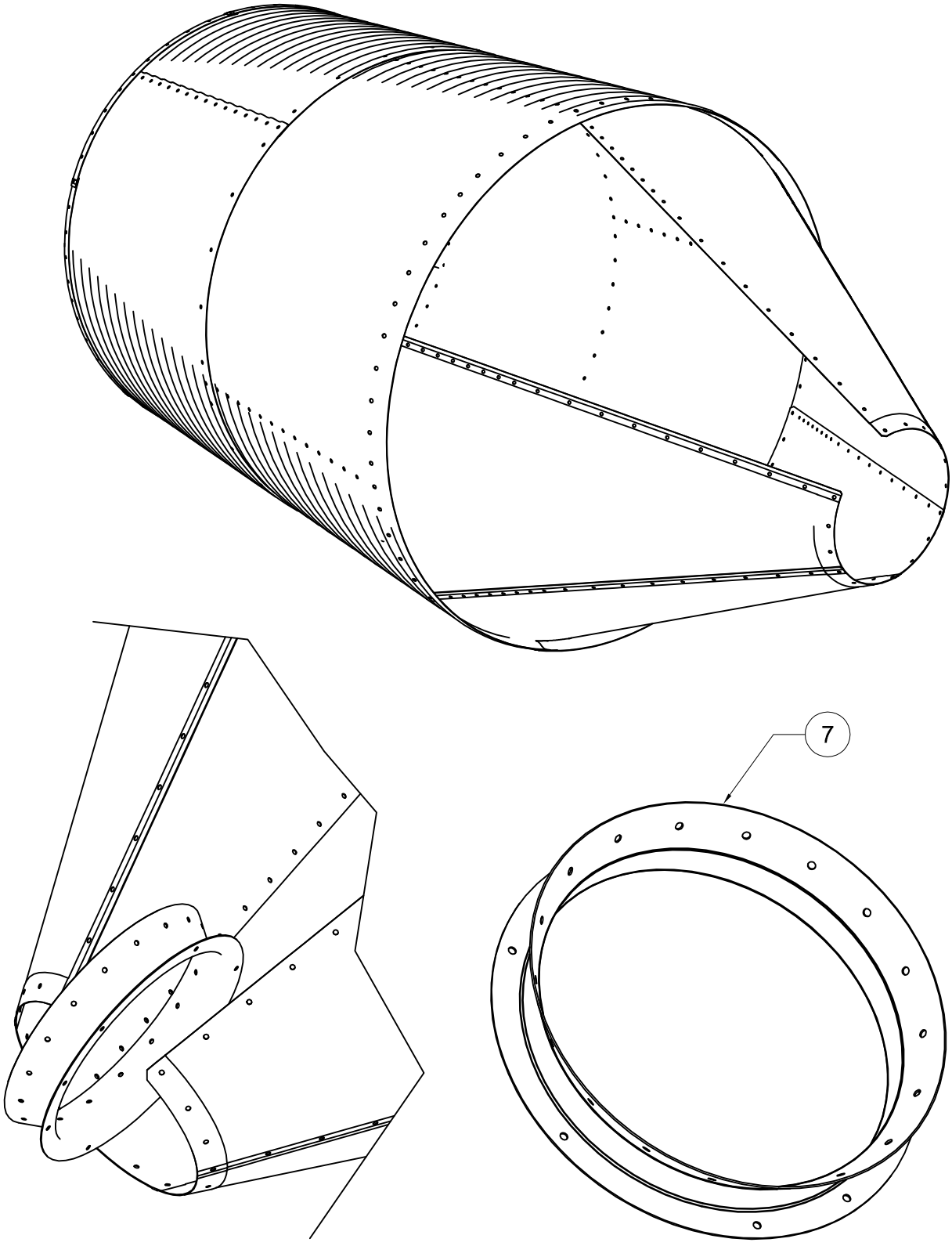



+90°

Si su silo dispone de kit de elevación, es el momento de colocar las placas de izado.
Para el montaje debe disponer la tornillería tal como se indica en la figura interior, con la cabeza del tornillo en el interior del silo.
Las placas de izado deben quedar equidistantes entre ellas, por lo que se colocarán en cada una de las juntas verticales del anillo superior.

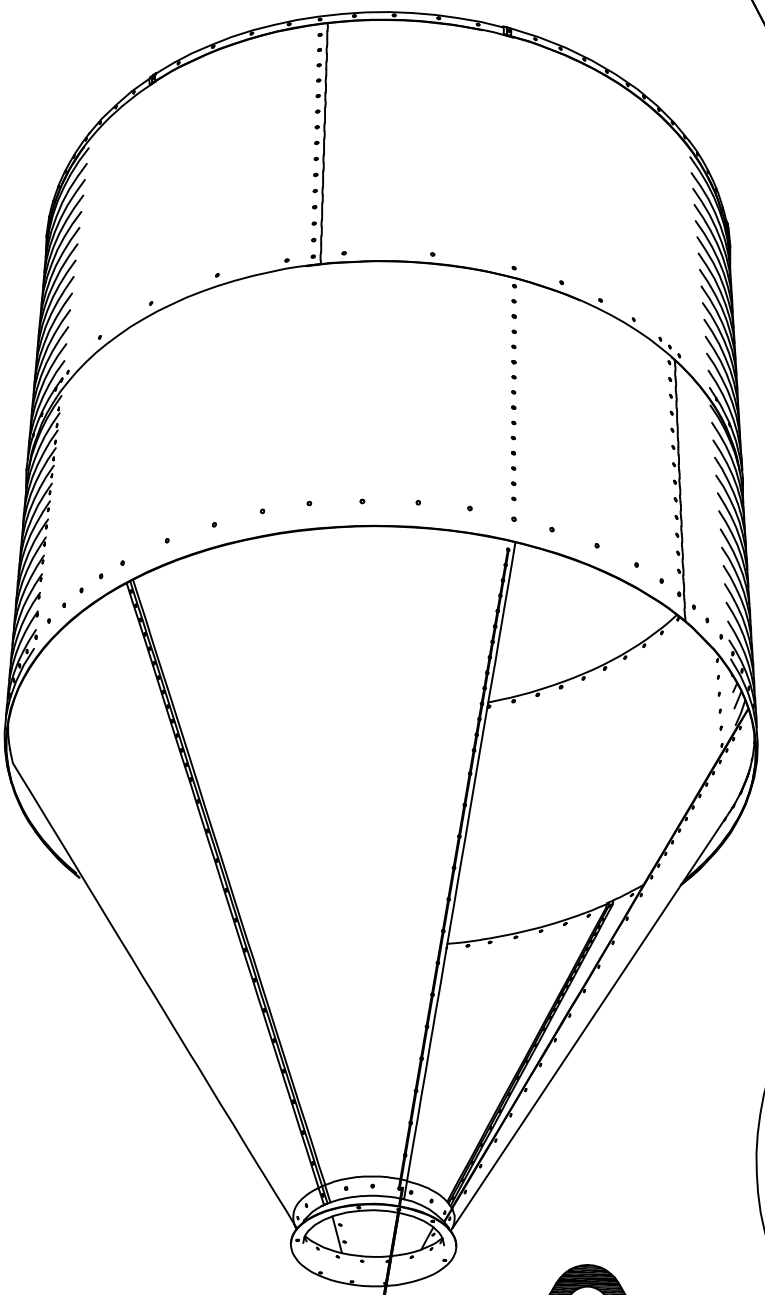
If your silo includes a lifting kit, put the lift plates into position at this point in your assembly. For assembly, use a mechanical joint like the one in the figure below with the head of the screw on the inside of the silo.
The lifting plates should be equidistant from each other, in such a way that they will fit in each one of the vertical seams of the upper ring.

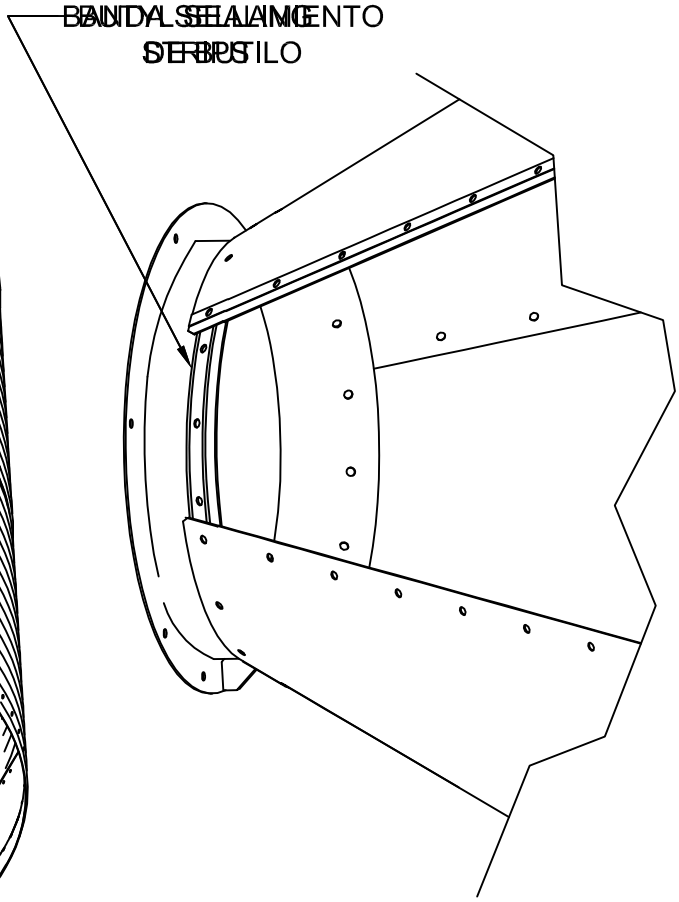


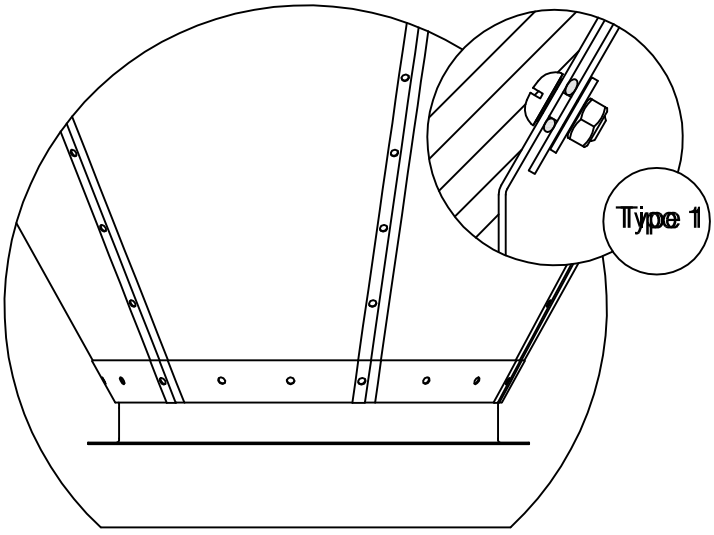


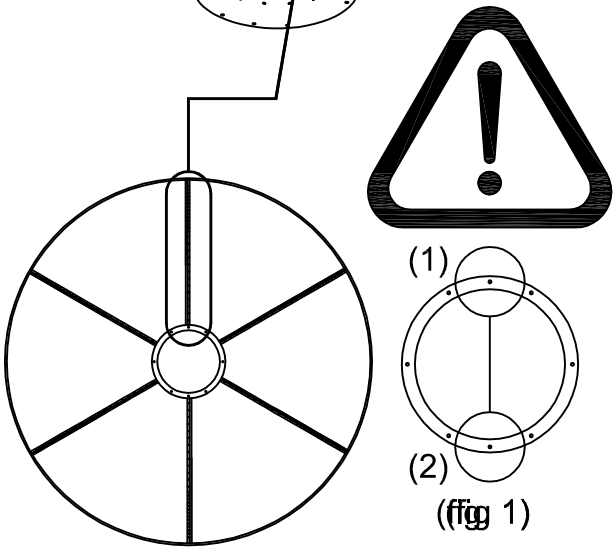
Completar el montaje del techo del silo. La tolva del silo, no debe terminar de cerrarla sin antes haber introducido dentro el anillo de la boca de salida (31FG100076A020). Una vez introducida la boca puede comenzar a cerrar completamente la tolva del silo.
Debe desengrasar correctamente las zonas donde va a pegar las bandas de sellamiento para favorecer su adherencia.
Inserte los tornillos en el sentido correcto, y siga las instrucciones indicadas (pag 11) para su correcto apretado.

Complete the assembly of the silo roof. The silo hopper is not ready to be closed until it has been introduced through the ring of the outlet port. Once connected, the outlet port can begin to completely close the silo hopper. All areas where butyl sealing strip are to be placed should be properly degreased to ensure a good adhesion.
Insert the screws in the right direction and follow the instructions indicated on page 11 for tightening them correctly.





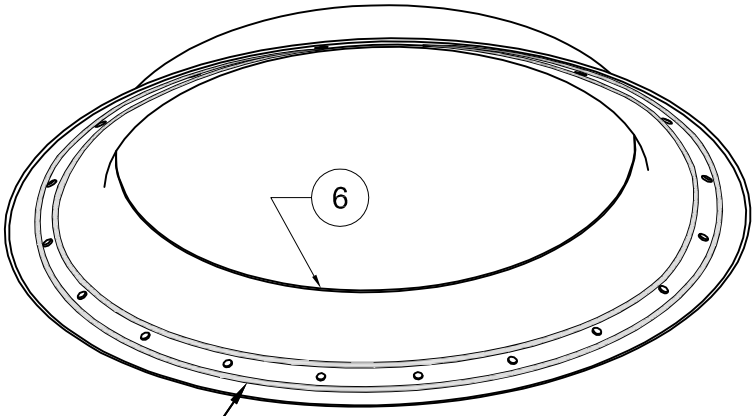




(fig 1)

IMPORTANT:
Al ensamblar la tolva, alinee los dos agujeros señalados en la figura 1 con una línea de tornillos como se indica en la figura 2.
Allí donde se utilicen tornillos de cabeza plana, se debe usar arandelas de seguridad para garantizar la adherencia.
Inserte los tornillos en la dirección correcta, siga las instrucciones indicadas (pag 41) para su correcto apriete.

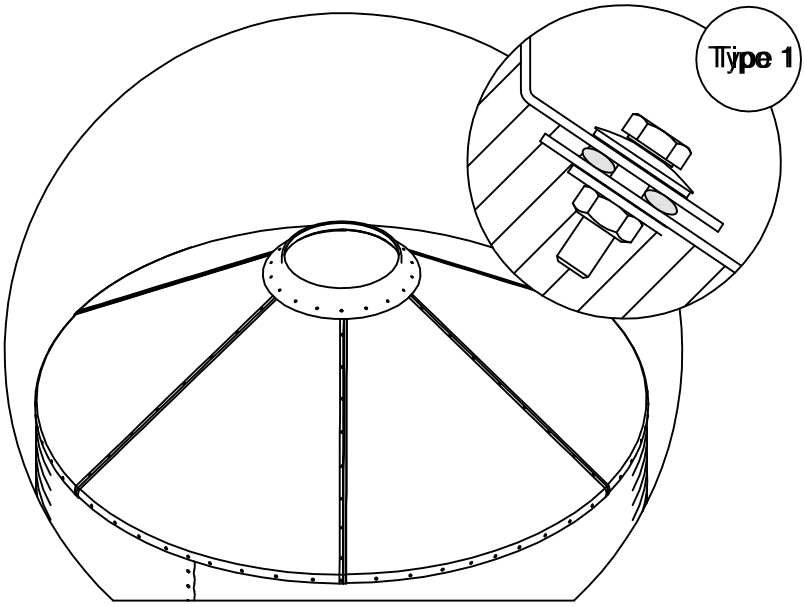
IMPORTANT:
To assemble the container, align the two holes indicated in figure 1 with one line of screws as shown in figure number two (2).
Where countersunk screws are to be used, washers must be placed under the heads to ensure good adhesion.
Insert the screws in the right direction, follow the instructions (page 41) for correct tightening.

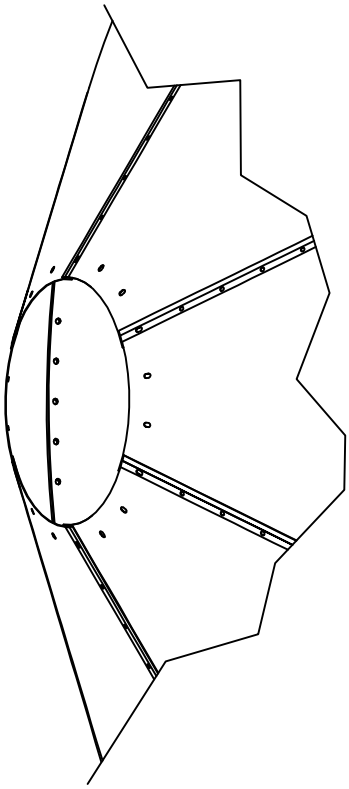


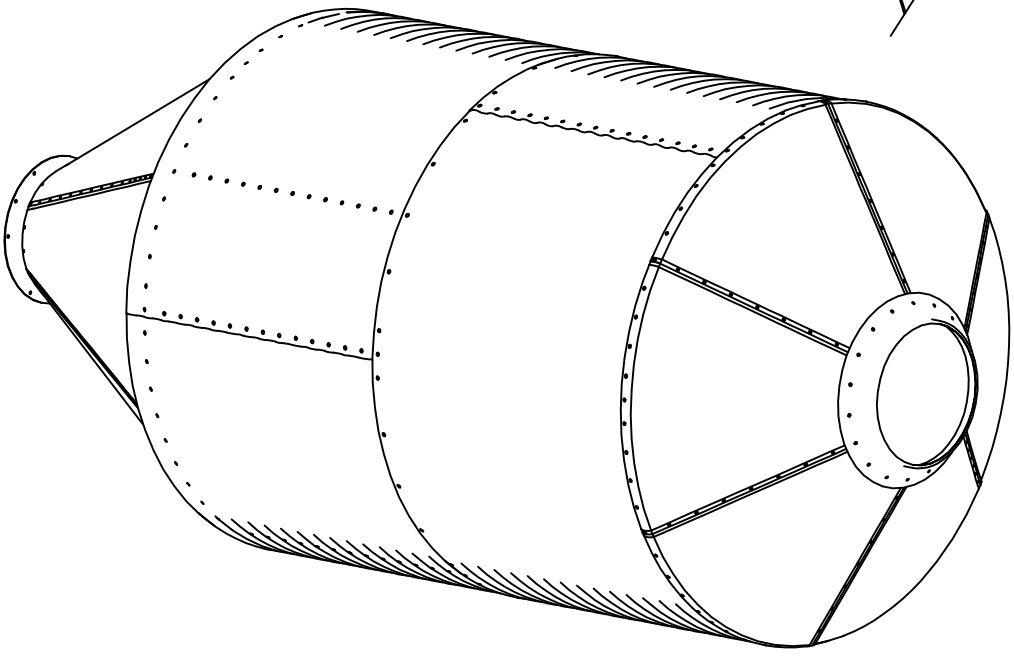
BANDA SELLANTE
SEALING STRIP

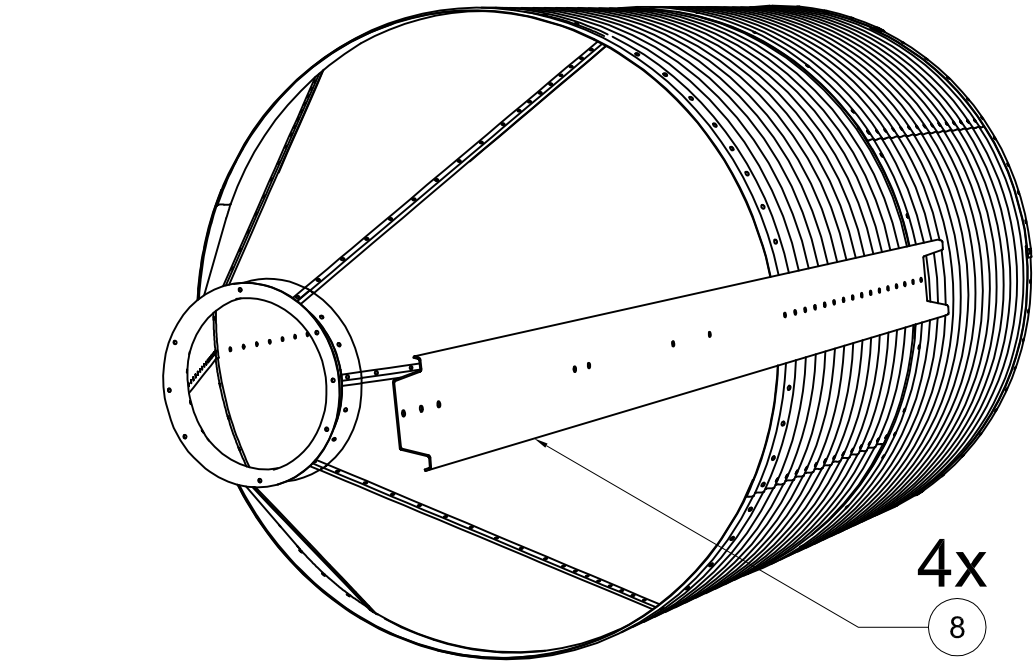
El montaje del cuerpo del silo se finaliza con el montaje de la boca de carga (31G100075A020).
Debe desengrasar correctamente las zonas donde va a pegar las bandas de sellamiento para favorecer su adherencia.
Inserte los tornillos en el sentido correcto, y siga las instrucciones indicadas (pag 11) para su correcto apretado.

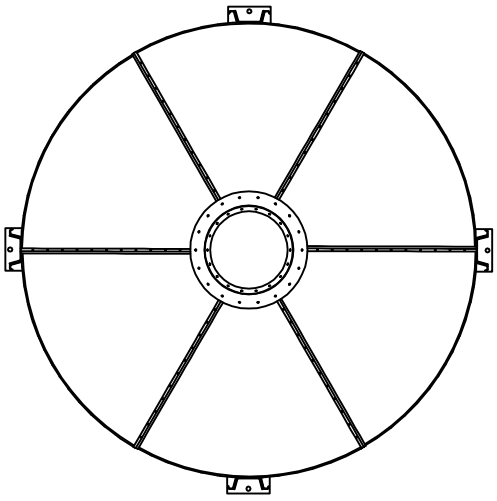
Complete the assembly of the silo body by assembling the loading door (31G100075A020). All areas where butyl sealing strips are to be placed should be properly degreased to ensure a good adhesion. Insert the screws in the right direction and follow the instructions indicated on page 11 for tightening them correctly.

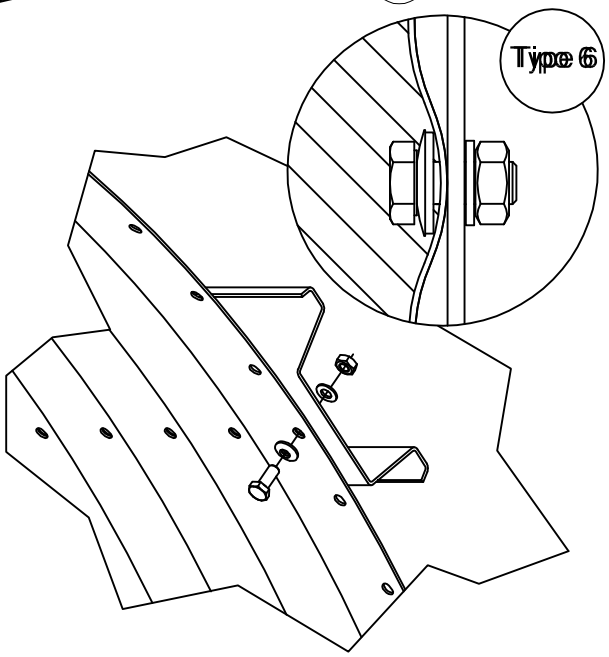


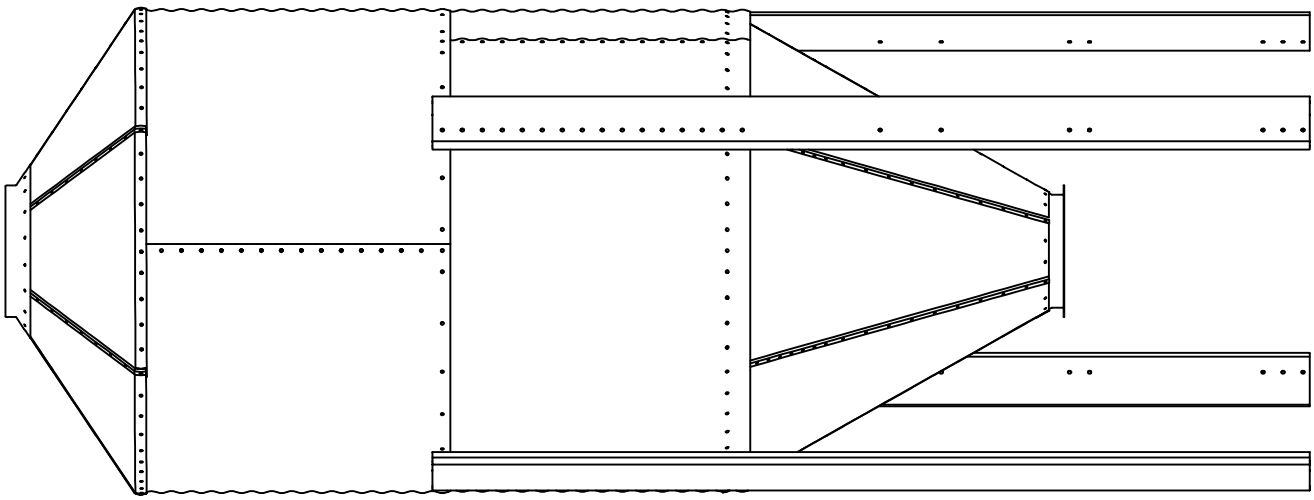


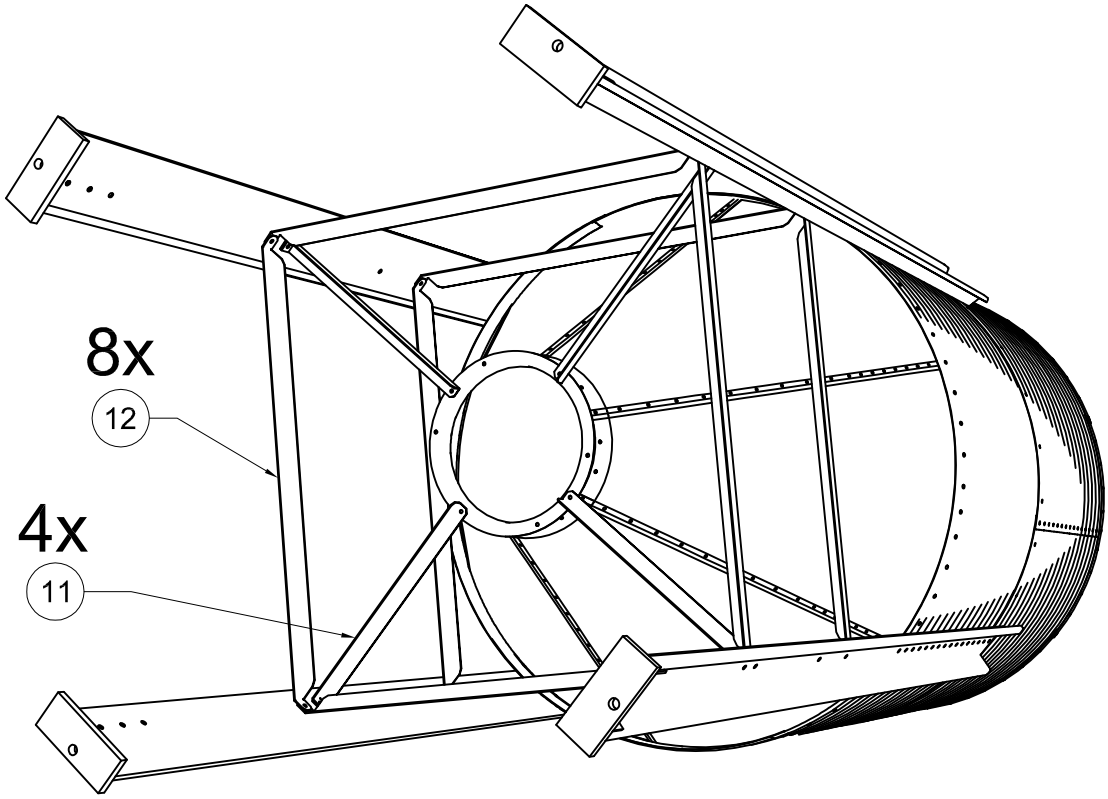


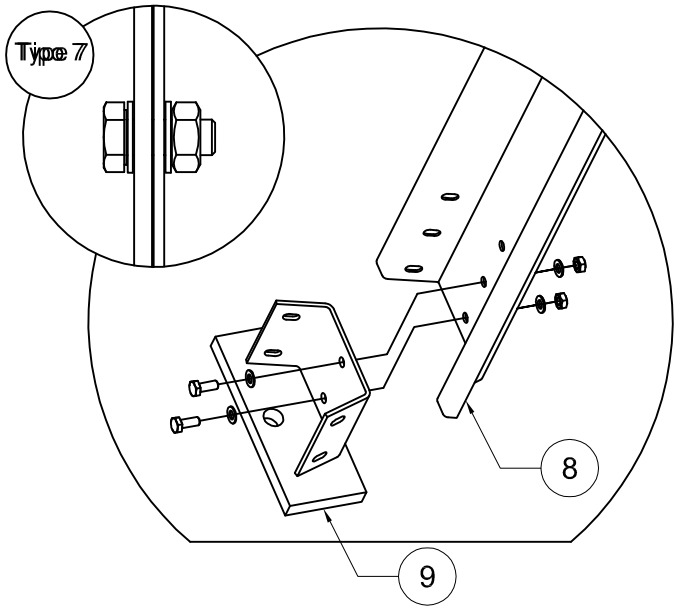

4x
8

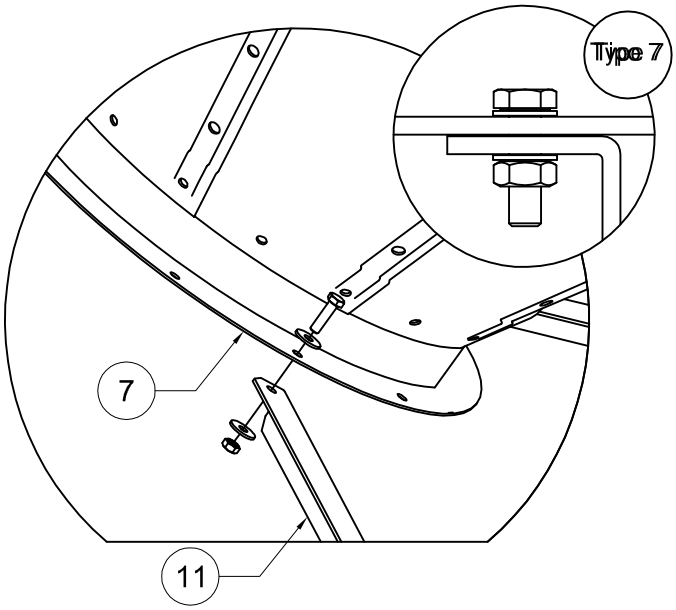


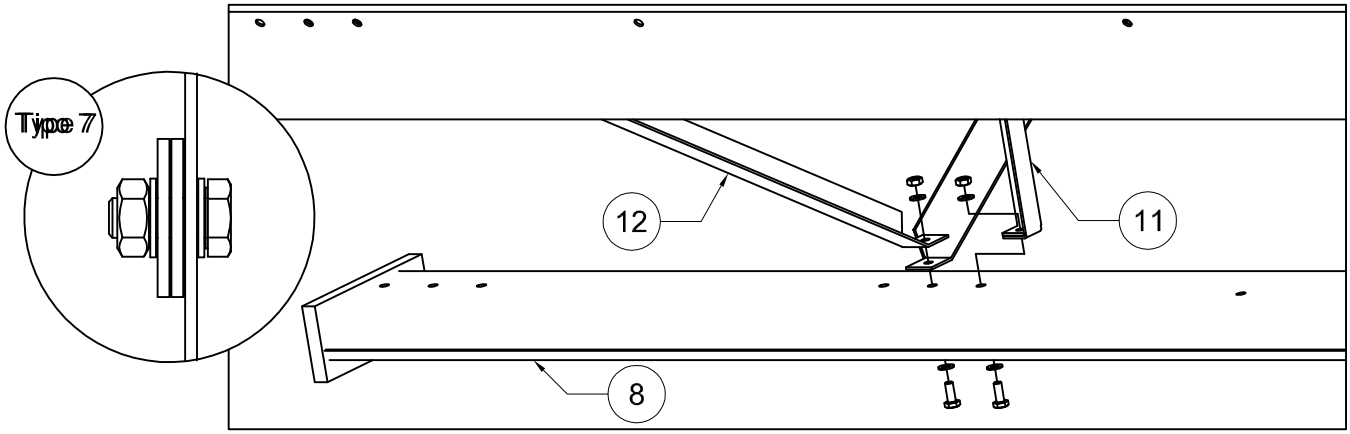

Type 6

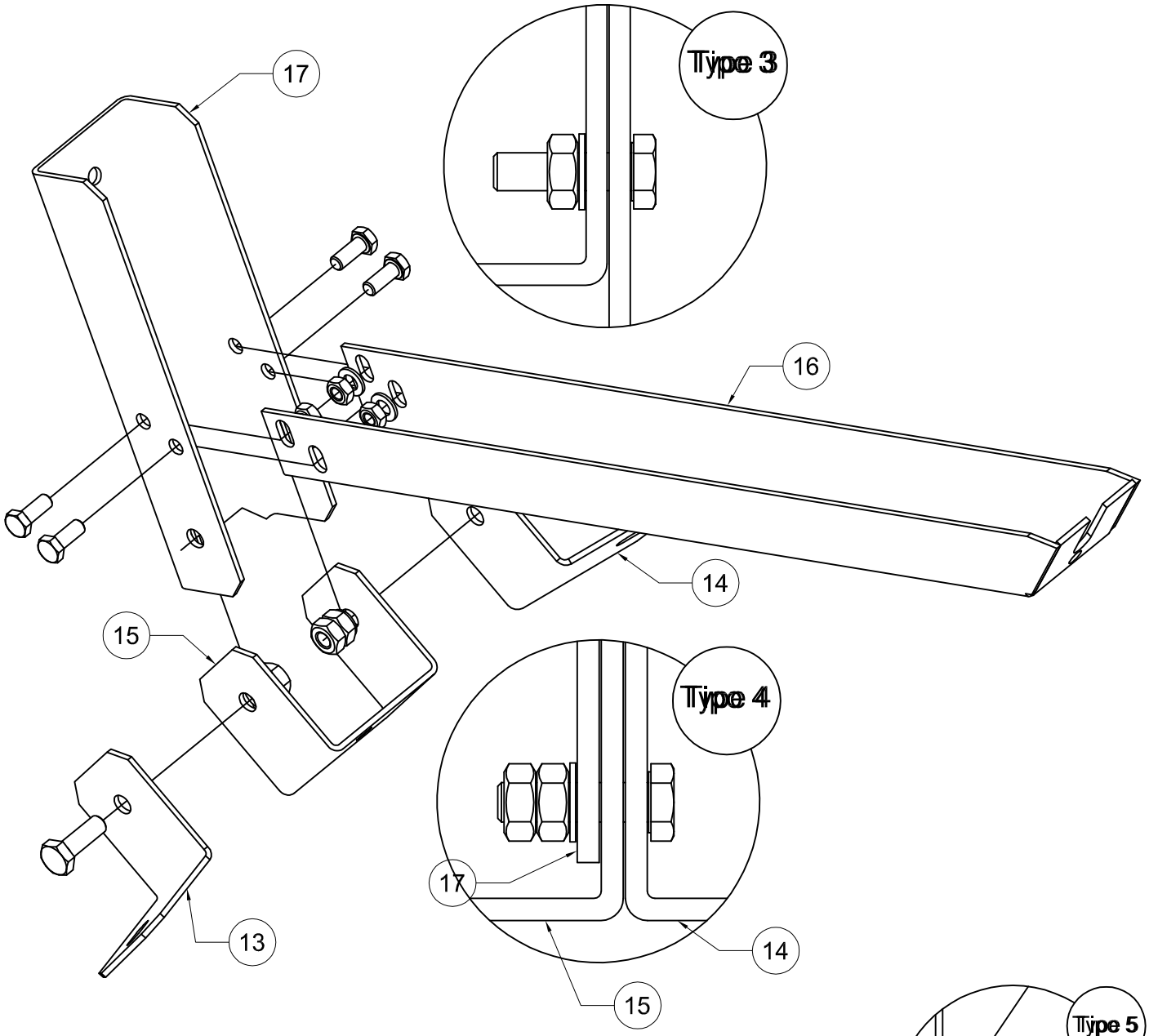


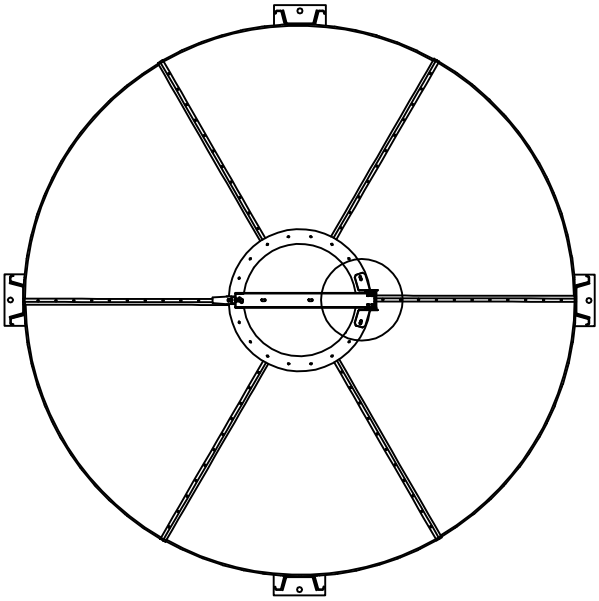

8x
12
4x
11

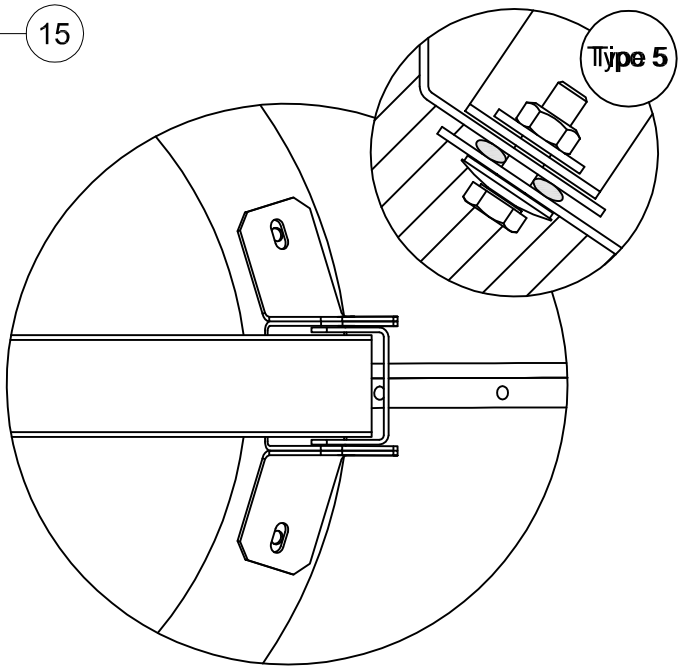

Type 7
8
9

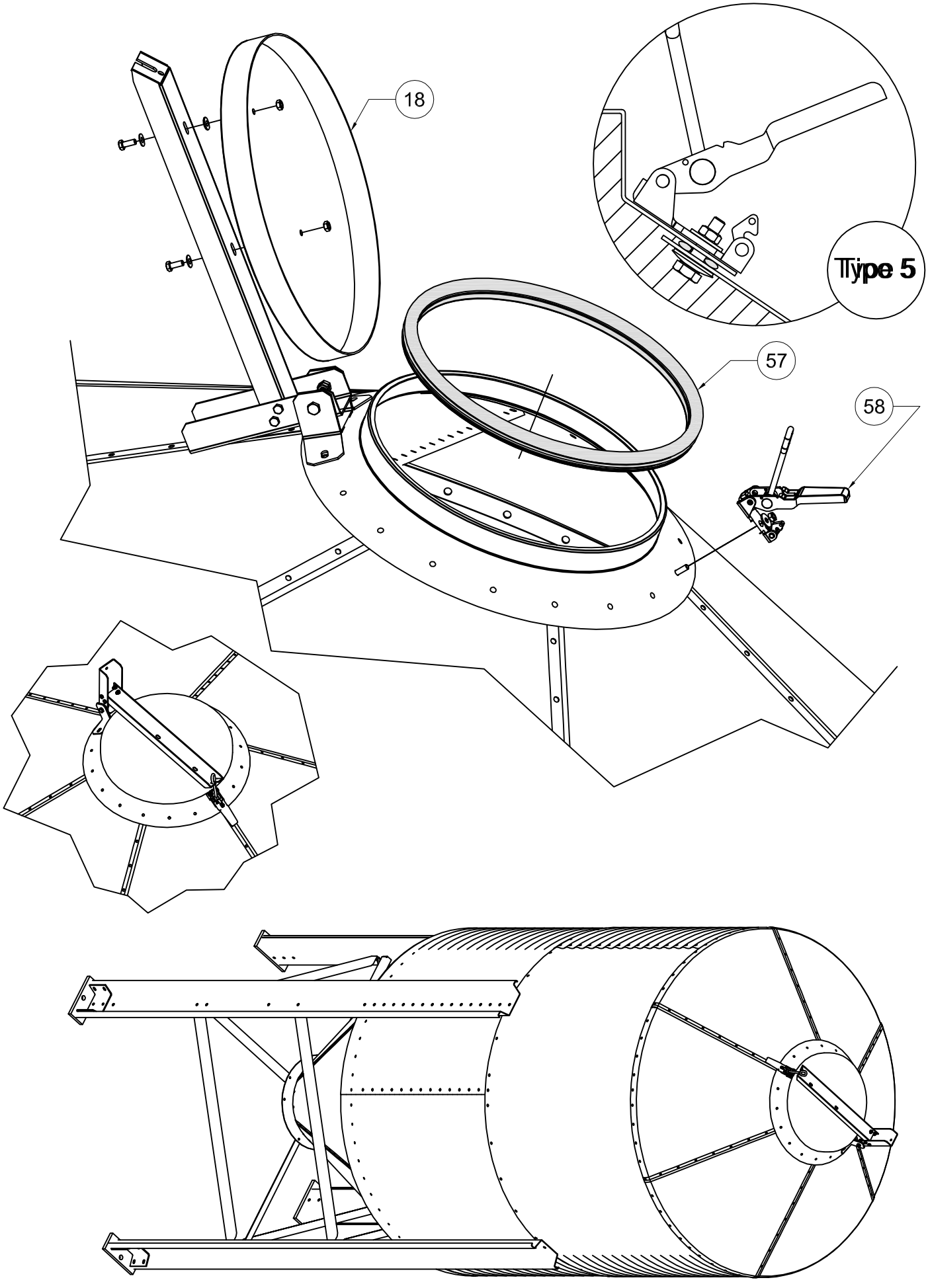

Type 7
7
11


Type 7
12
11
8


Type 3
17
16
14
15
Type 4
17
14
15
13

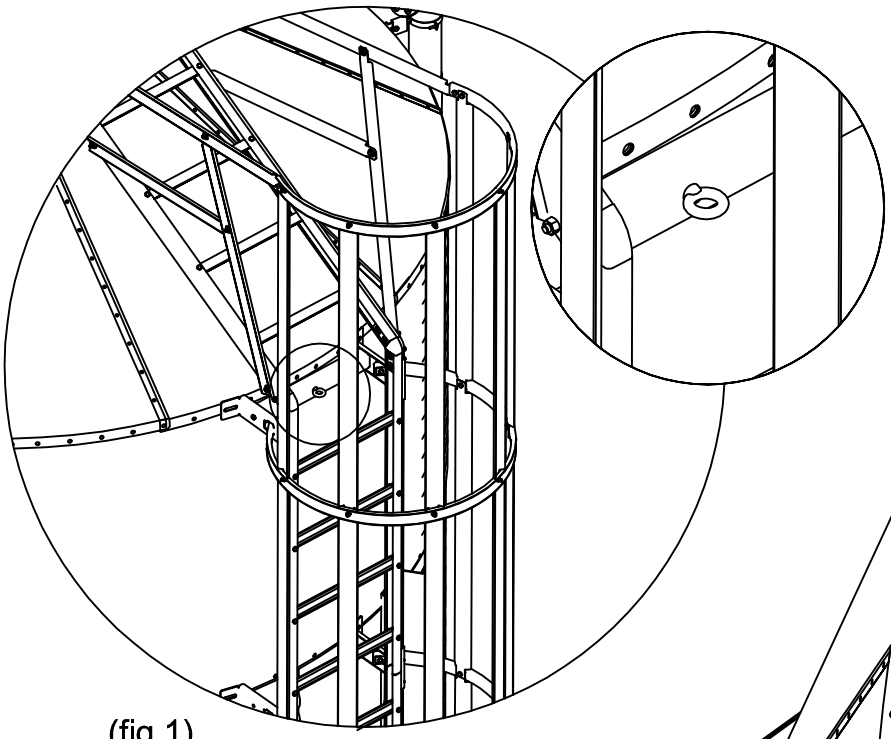



Type 5

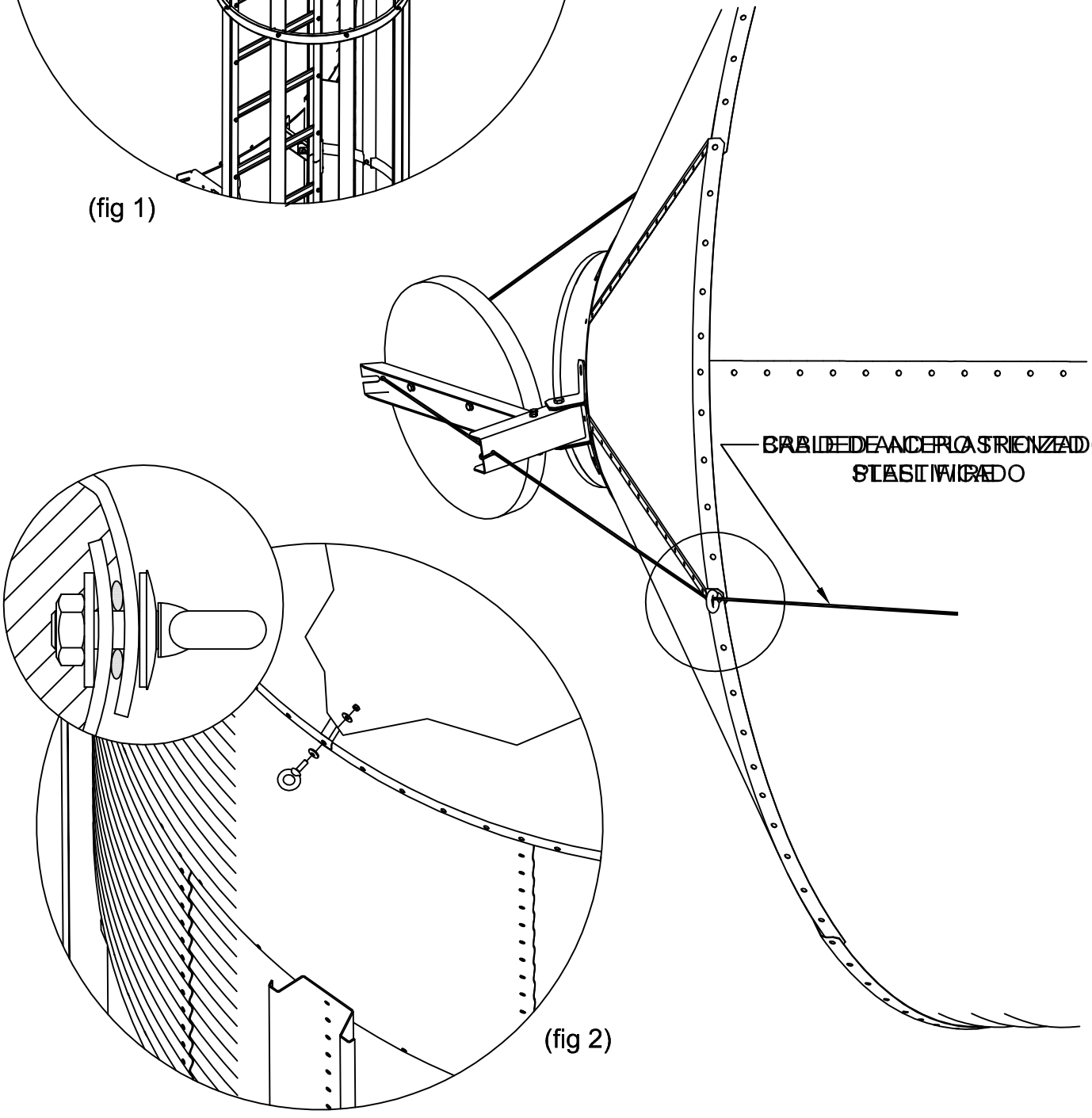

18
Type 5
57
58

Assembly of the aperture cable will depend on whether the sliding door includes a ladder. If the sliding door includes a ladder, the cable will be assembled as shown in figure number one (1). If the sliding door does not include a ladder, the cable will be assembled as shown in figure number two (2).

El montaje del cable de apertura dependerá de si la puerta corredera incluye escalera o no. Si la puerta corredera incluye escalera, el montaje se realizará como se muestra en la figura número uno (1). Si la puerta corredera no incluye escalera, el montaje se realizará como se muestra en la figura número dos (2).



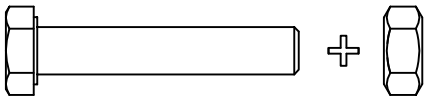
(fig 1)



(fig 2)

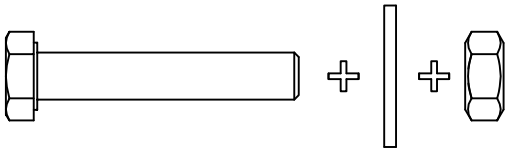
Unión tipo 8
Joint type 8

Tornillo cabeza hexagonal M8x60 +
tuerca hexagonal M8
Hexagonal head screw M8x60 +
hexagonal nut M8



Unión tipo 9
Joint type 9

Tornillo cabeza hexagonal M8x60 +
arandela metálica +
tuerca hexagonal M8
Hexagonal head screw M8x60 +
metal washer +
hexagonal nut M8

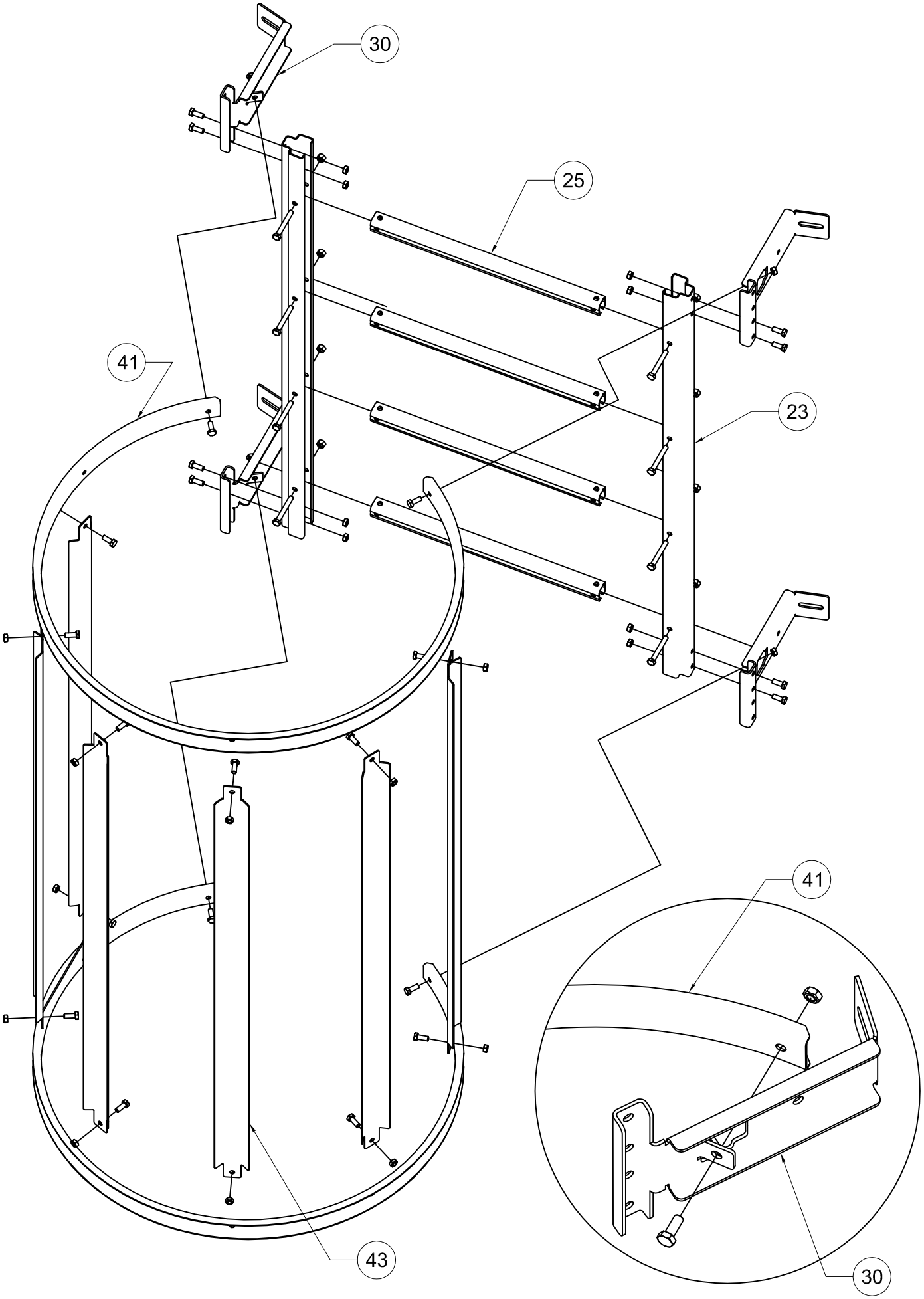


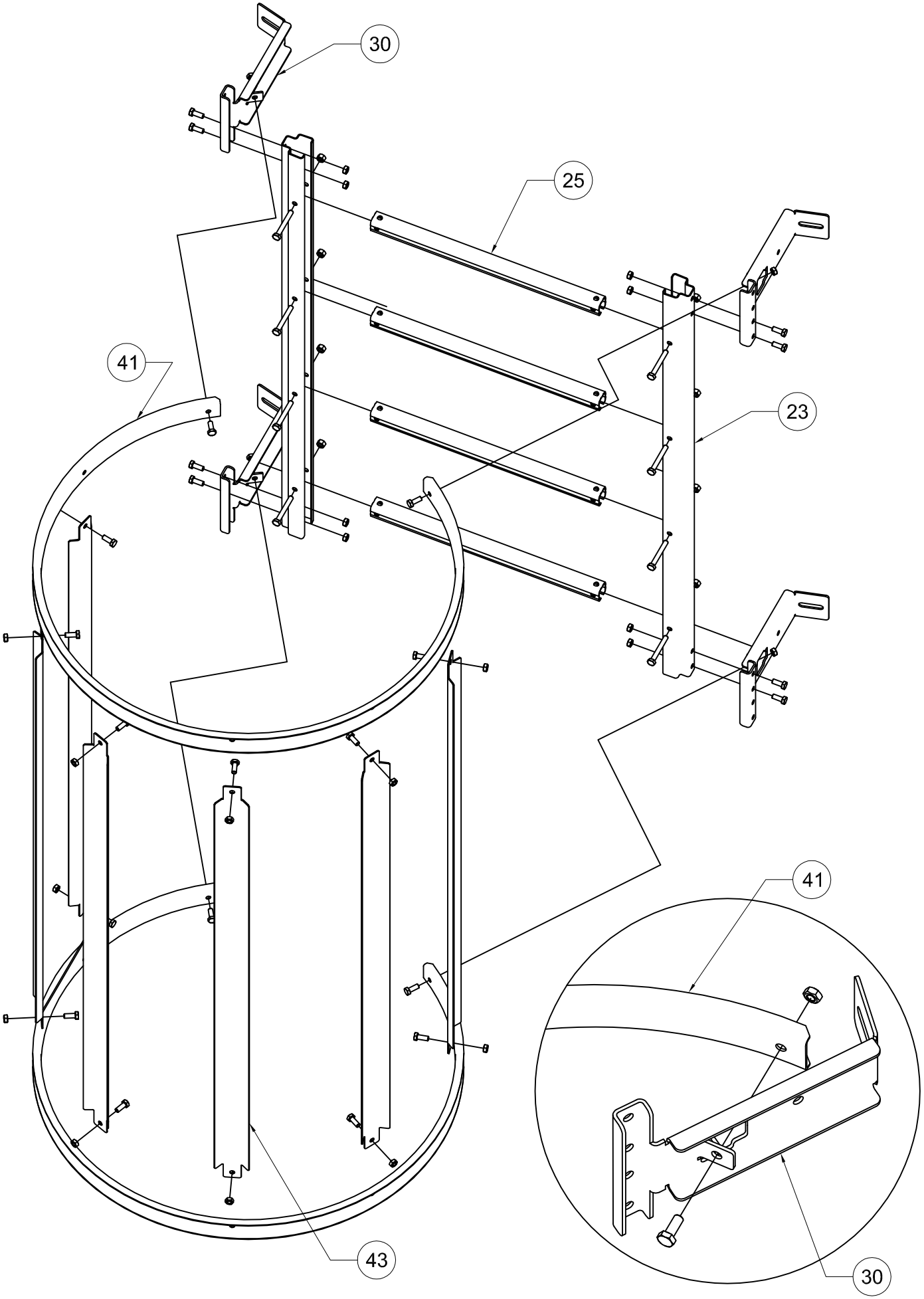
Todos los tornillos deben ser apretados sólo desde el lado de la tuerca. Al apretar las tuercas hay que impedir que gire la cabeza del tornillo para evitar que se dañen las juntas de goma.
All bolts are to be tightened from the nut side only. Do not allow bolt heads to spin to avoid damages in rubber joints.

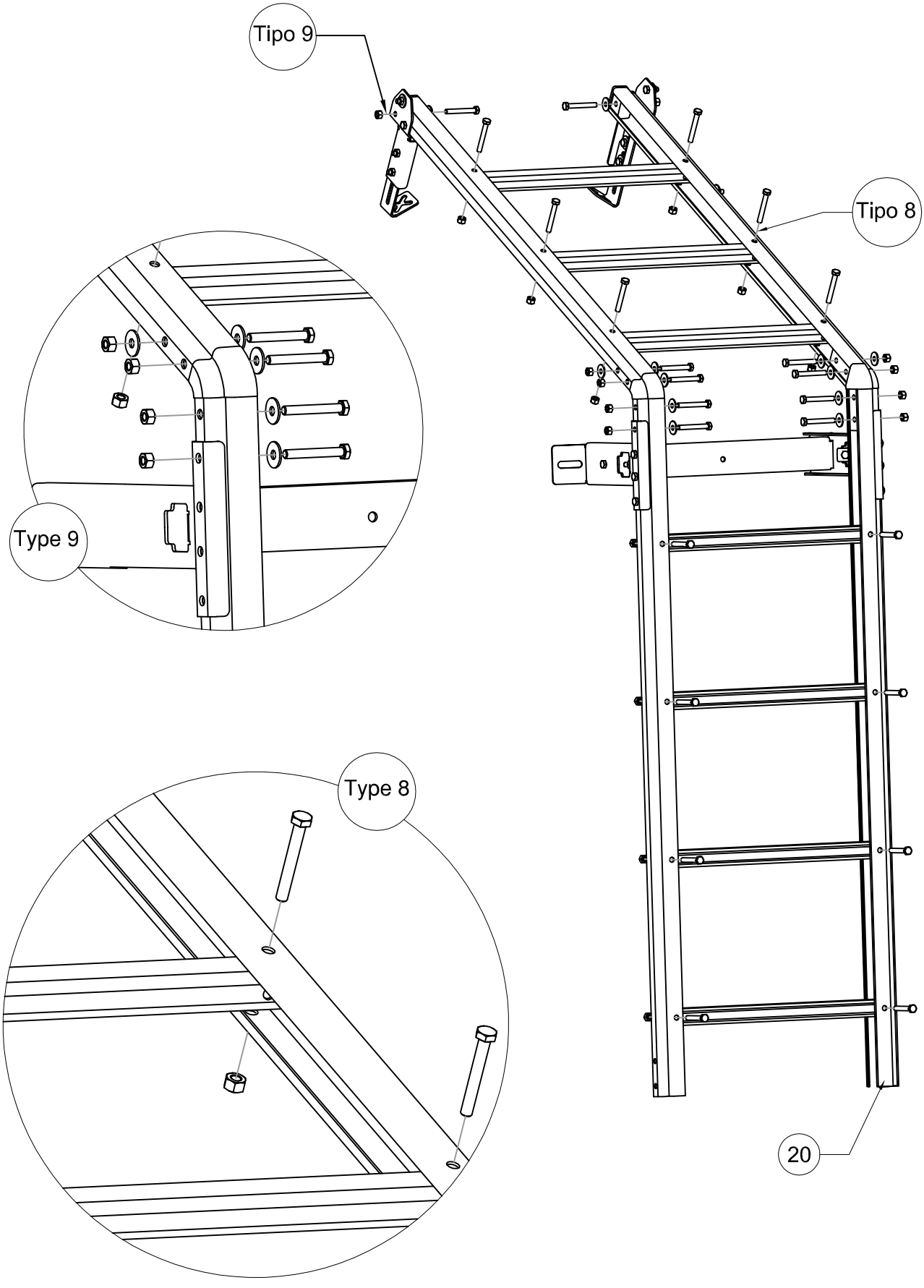
Se pueden utilizar punteros para ayudar a alinear los agujeros.
Drift punches can be used to align holes.

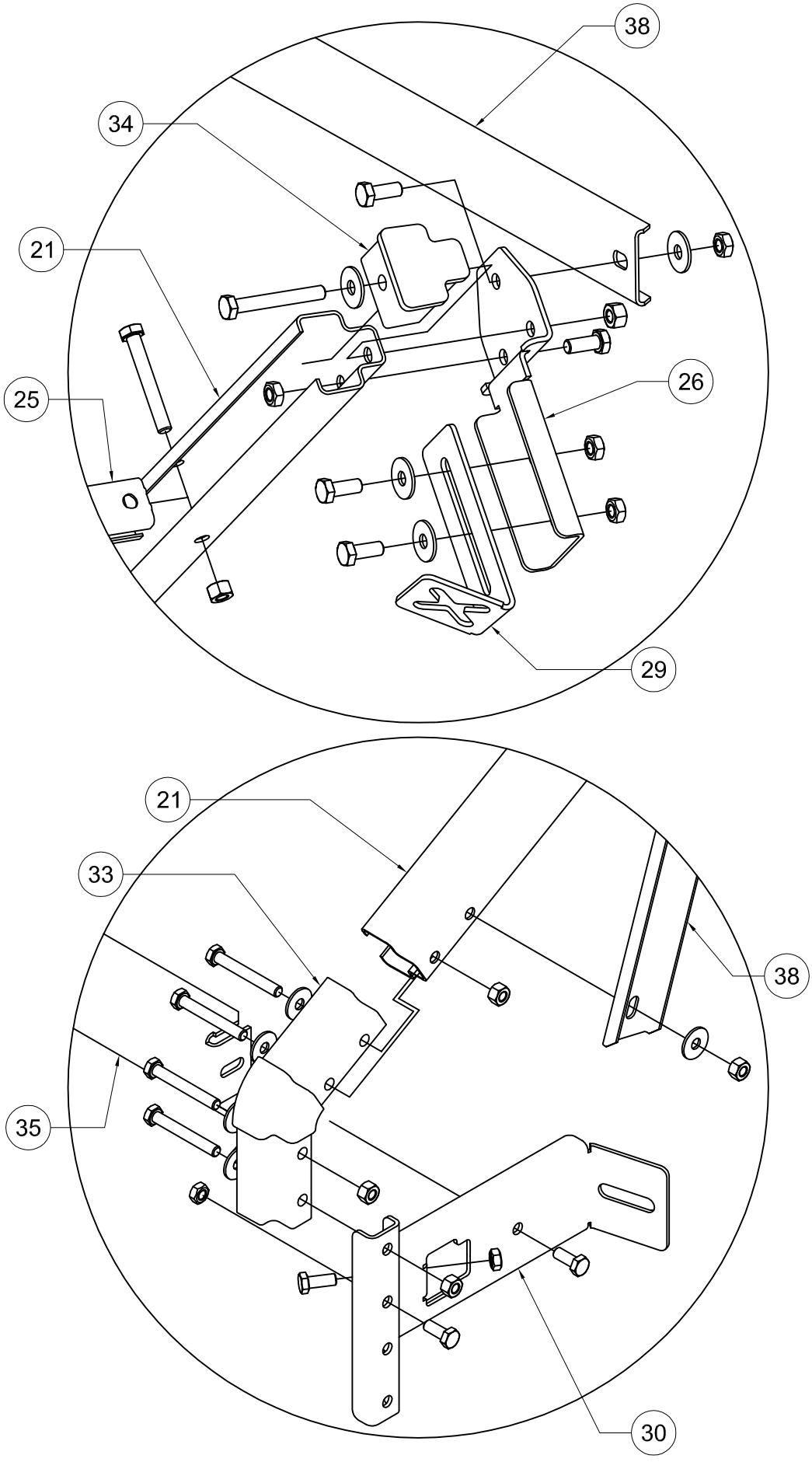
Antes de introducir los tornillos debe comprobar que en esa posición, tanto el tipo de junta como la dirección en la que se introduce el tornillo es correcto. Asegúrese que toda la tornillería concuerda con el esquema de la página siguiente.
Before inserting the screws should be checked that in this position both the type of joint as the direction in which you enter the screw is correct. Make sure all bolts are consistent with the pattern on the next page.

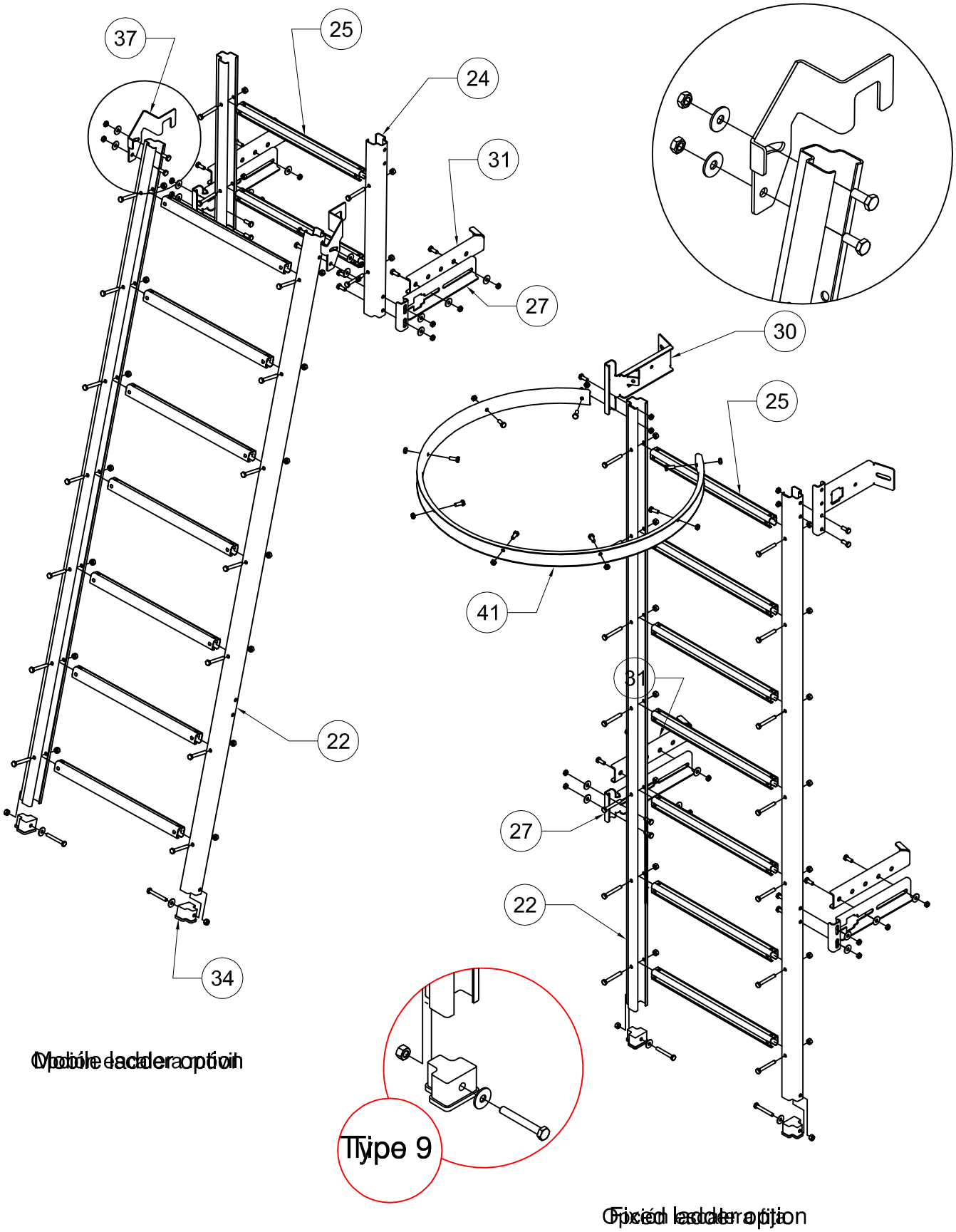
IMPORTANTE: Apretar los tornillos con un par comprendido entre 13Nm y 26Nm.
IMPORTANT: Tighten bolts with a torque wrench between 13Nm y 26Nm.


30
25
41
23
41
43
30


30
25
41
23
41
43
30

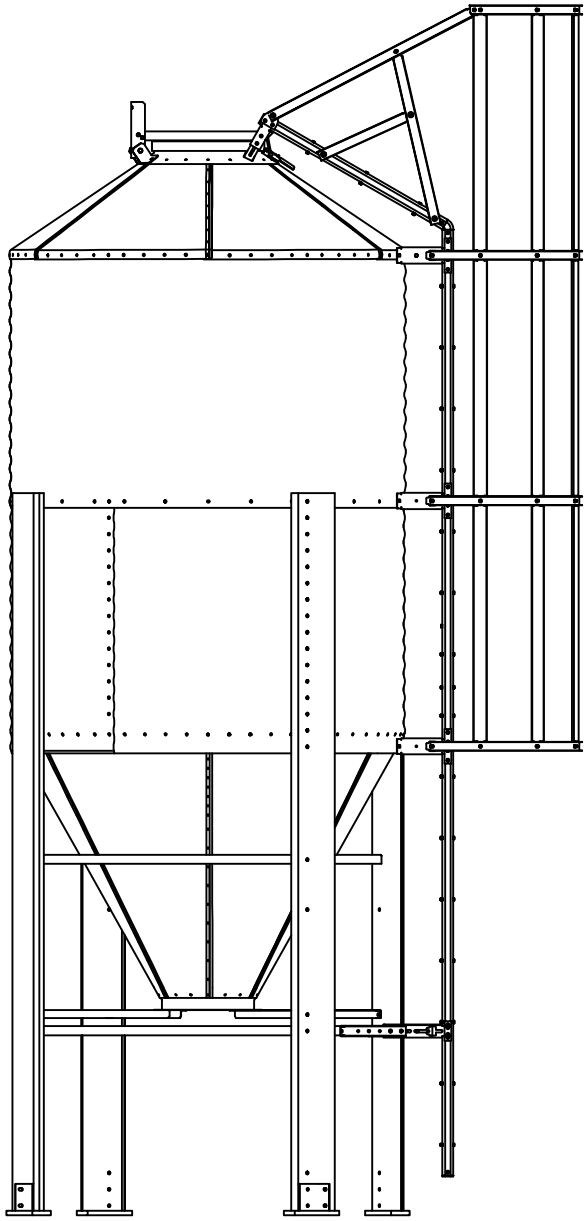

Tipo 9
Tipo 8
Type 9
Type 8
20

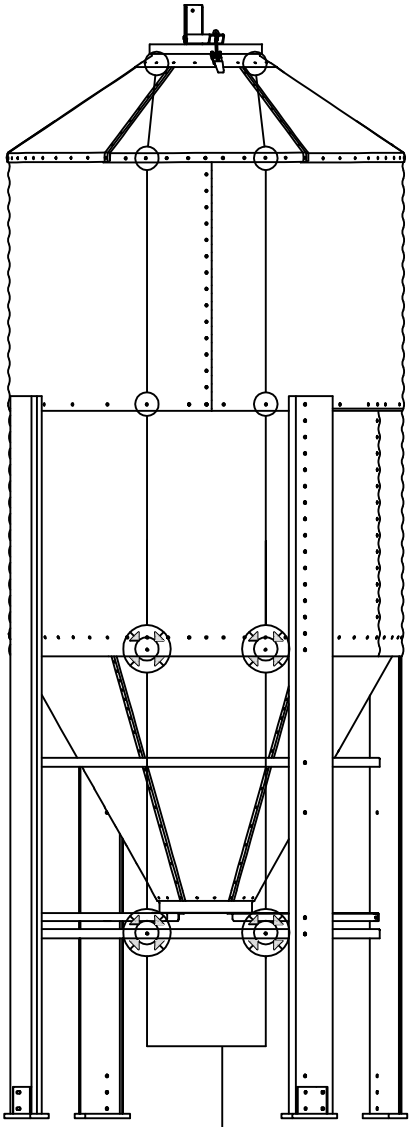

38
34
21
25
26
29
21
33
38
35
30

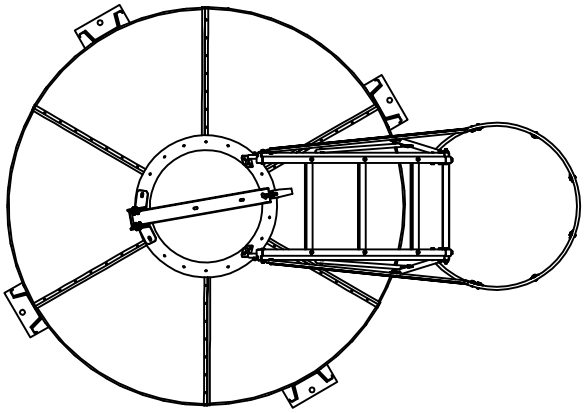


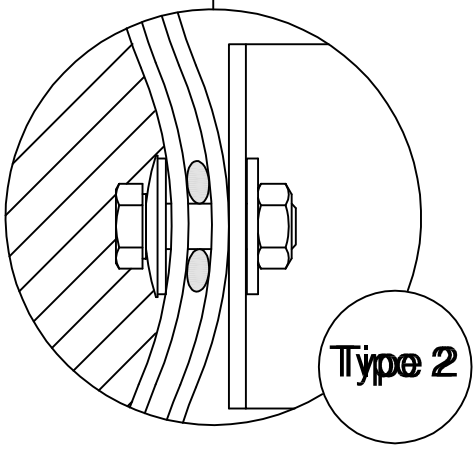
Movable ladder option
Opción escalera móvil

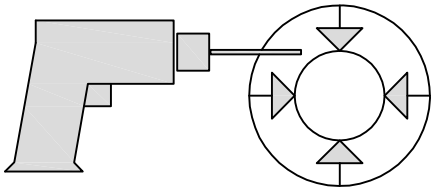
Fixed ladder option
Opción escalera fija

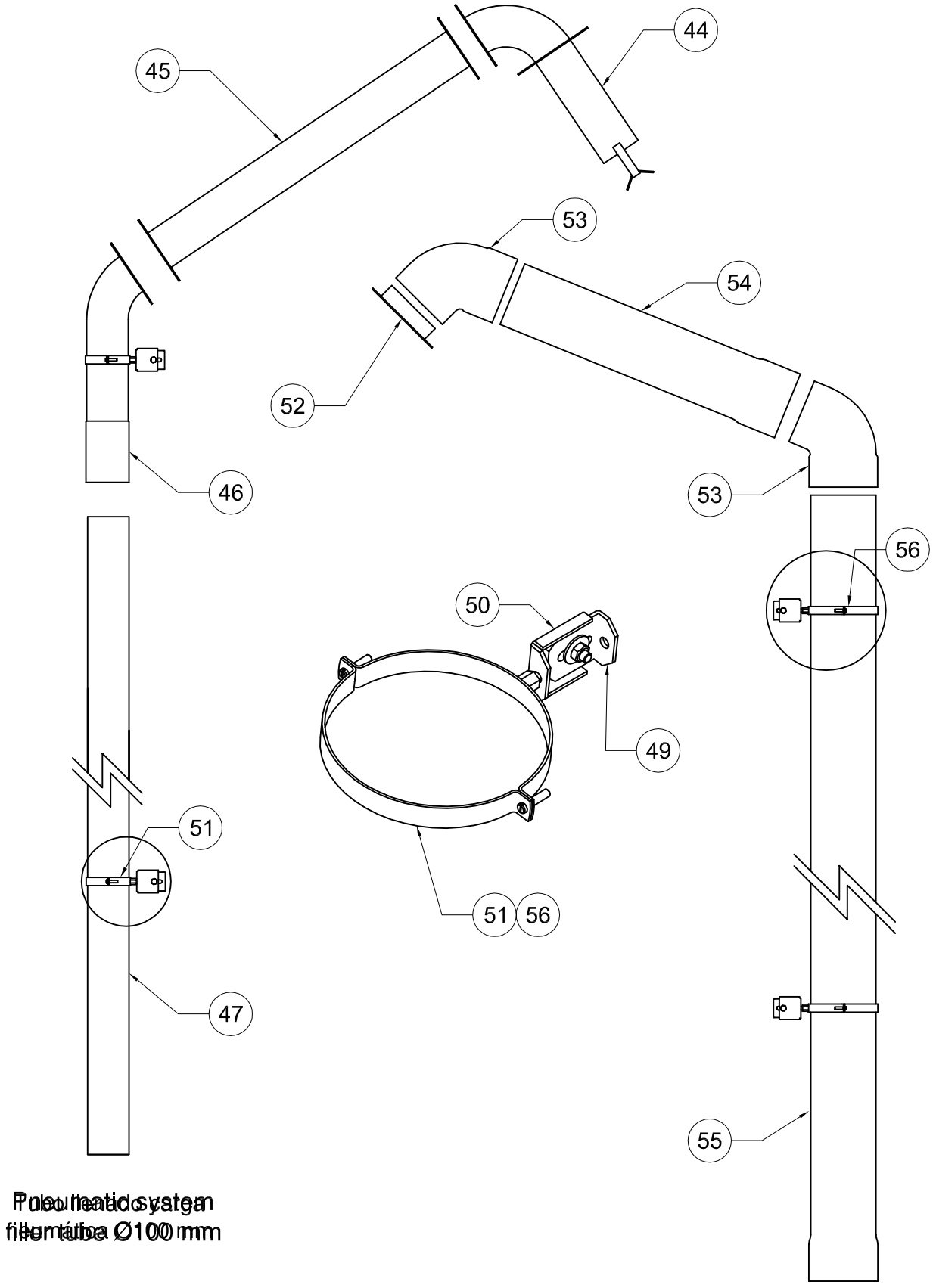







Type 2

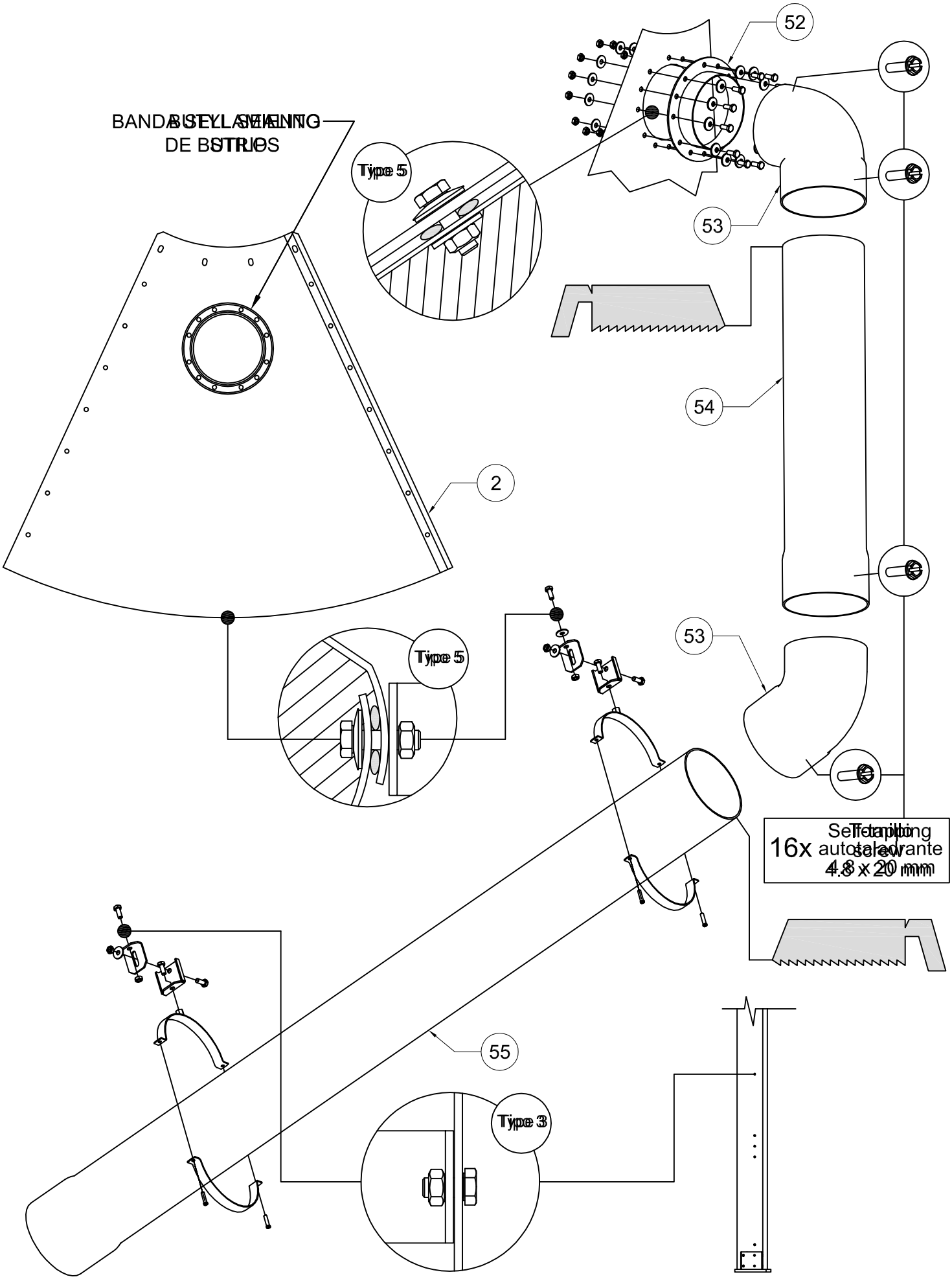


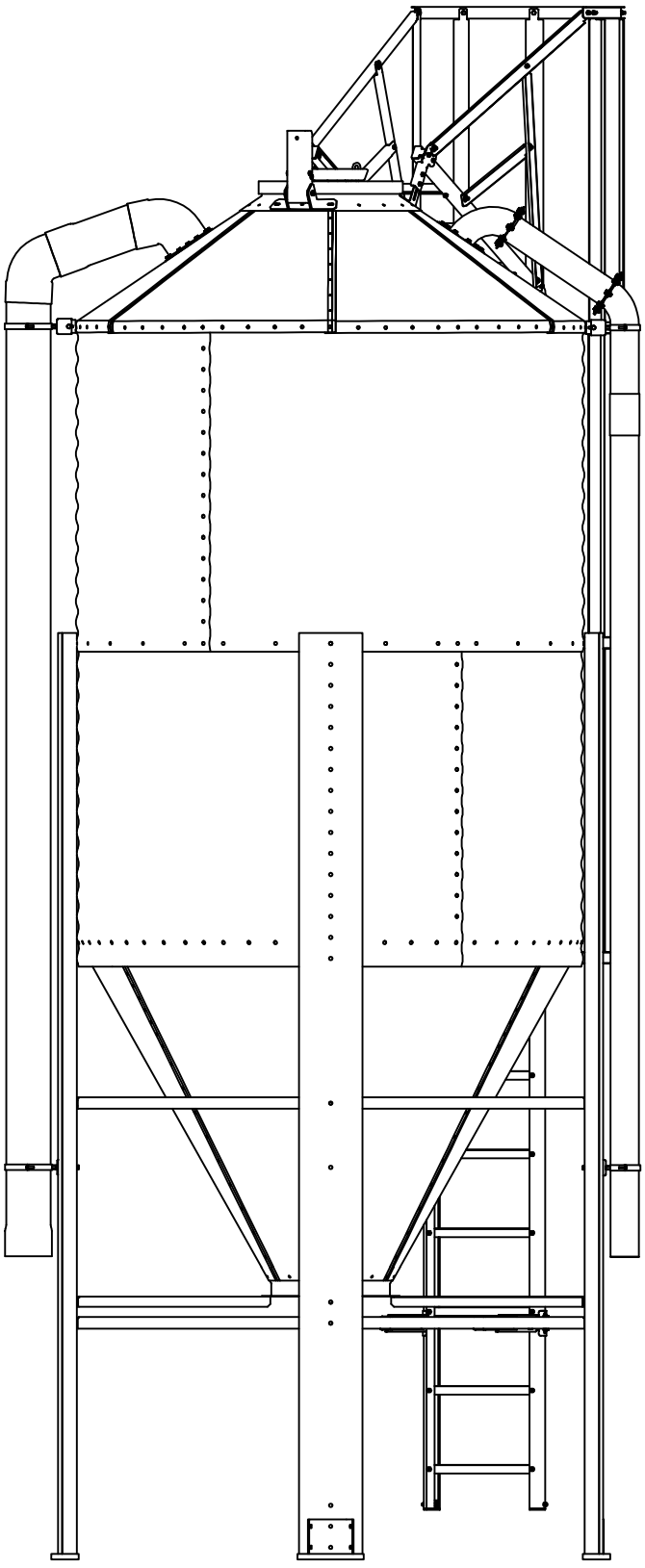


Pneumatic system
flue tube Ø100 mm

Chimenea descompresión
decompression chimney Ø160 mm

44
2
45
46
47
Type 5
Type 5
Type 5
Type 2

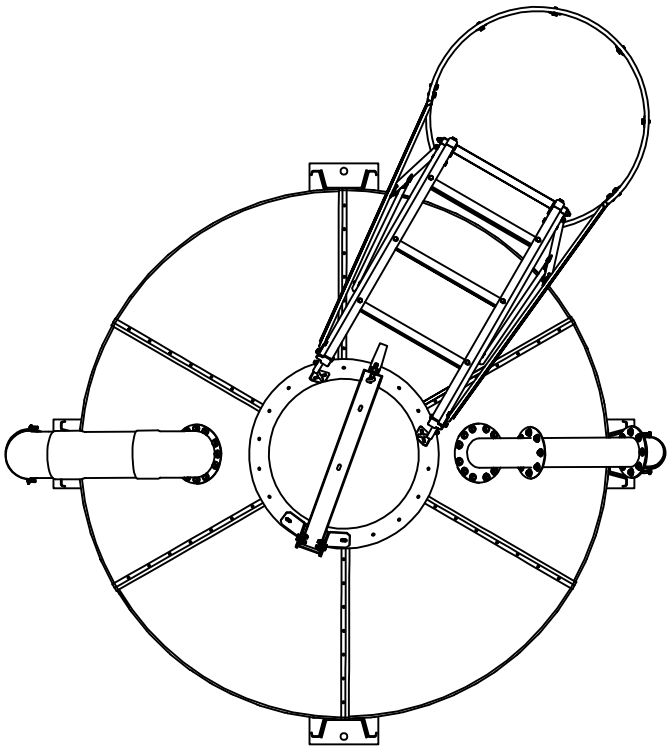

52
BANDA ESTABILIZADORA DE BASTIDOR
STABILIZING STRIP
Type 5
53
54
2
Type 5
53
16x Tornillo autotaladrante 4.8 x 20 mm
Self-tapping screw 4.8 x 20 mm
55
Type 3

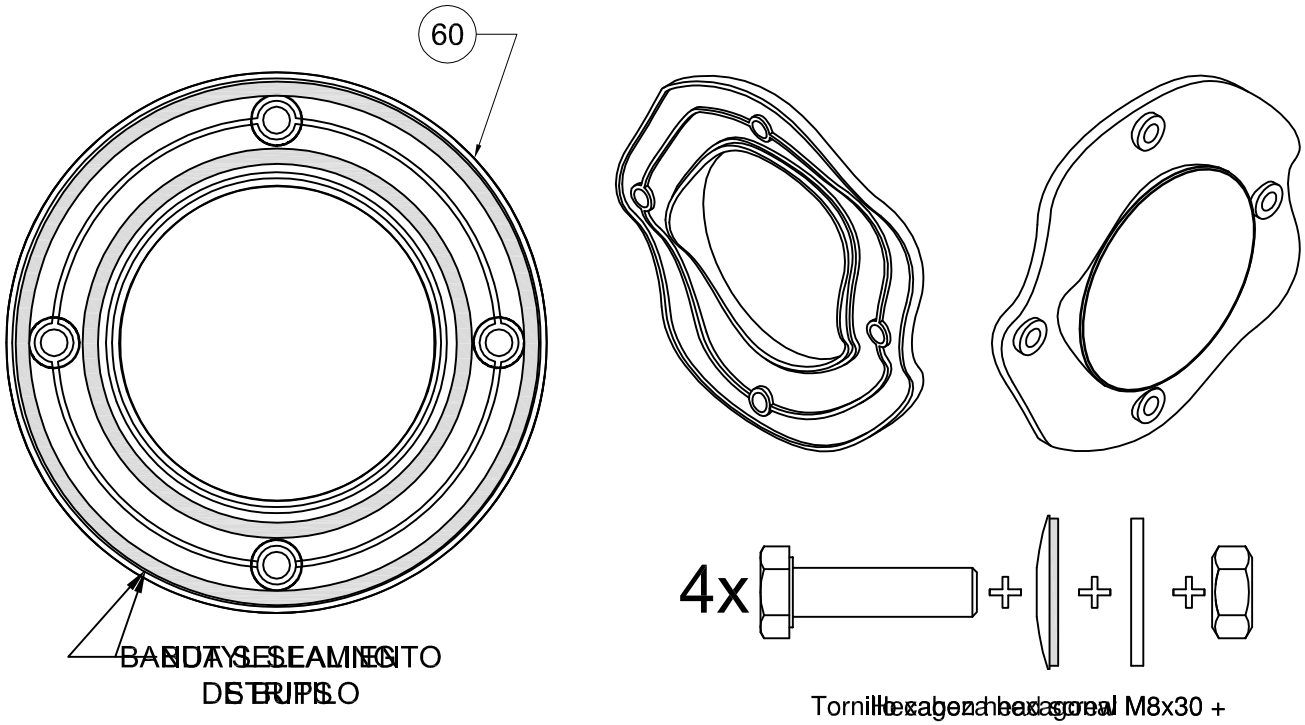


Maximum pressure
Presión máxima
Pression maximale

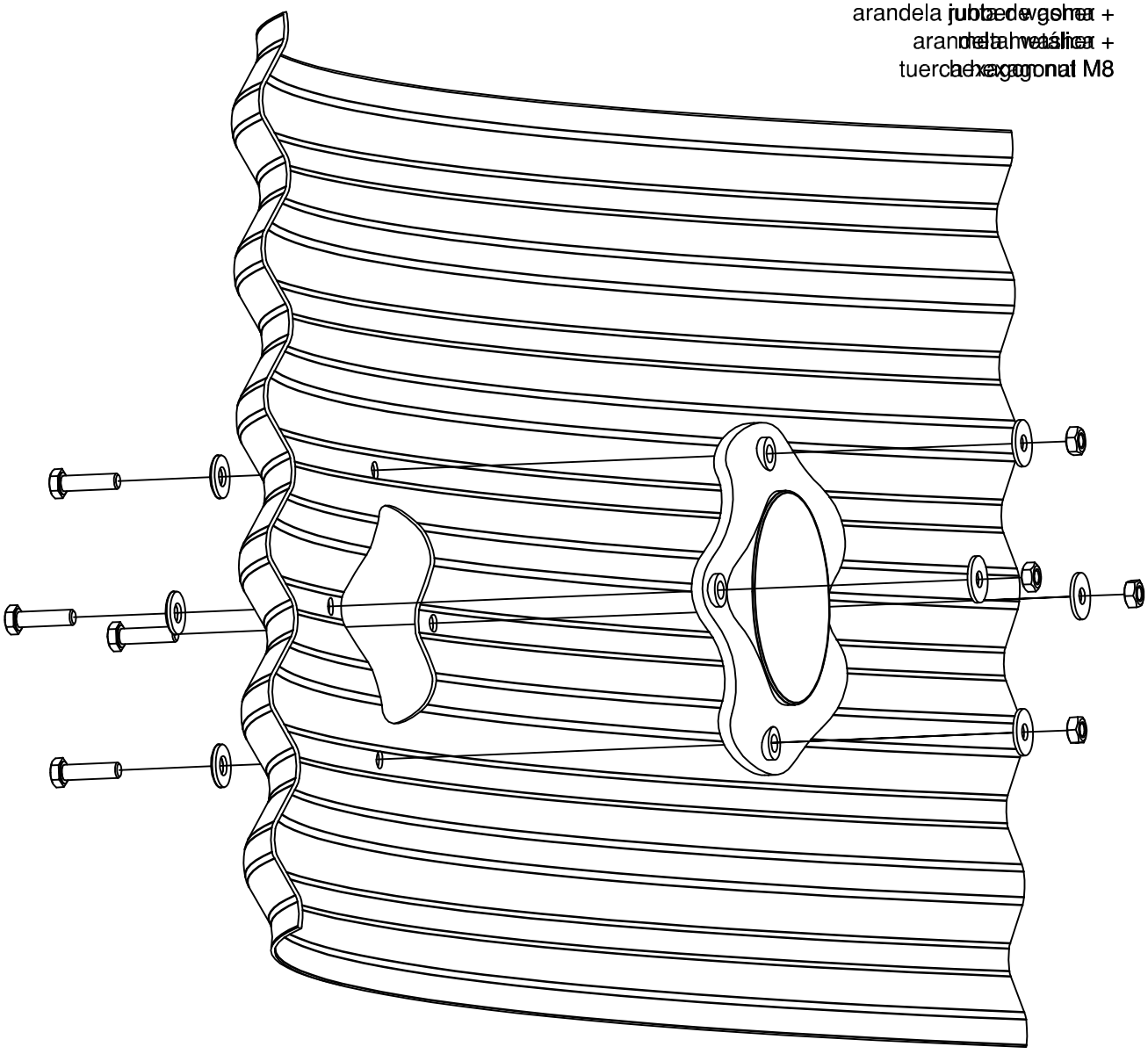
1.2 bar

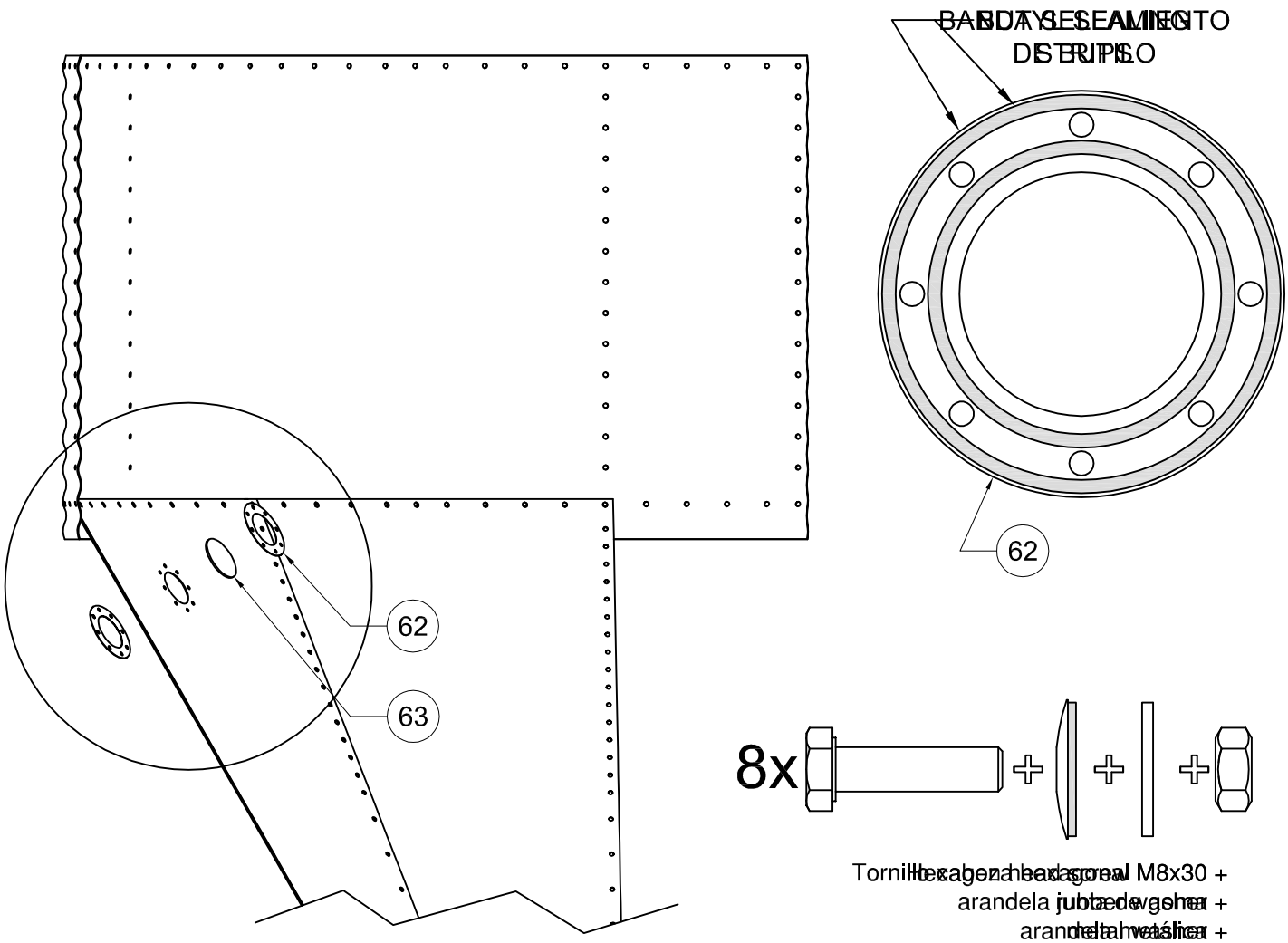
Do not exceed the indicated
No sobrepasar la presión indicada
Ne pas dépasser la pression indiquée



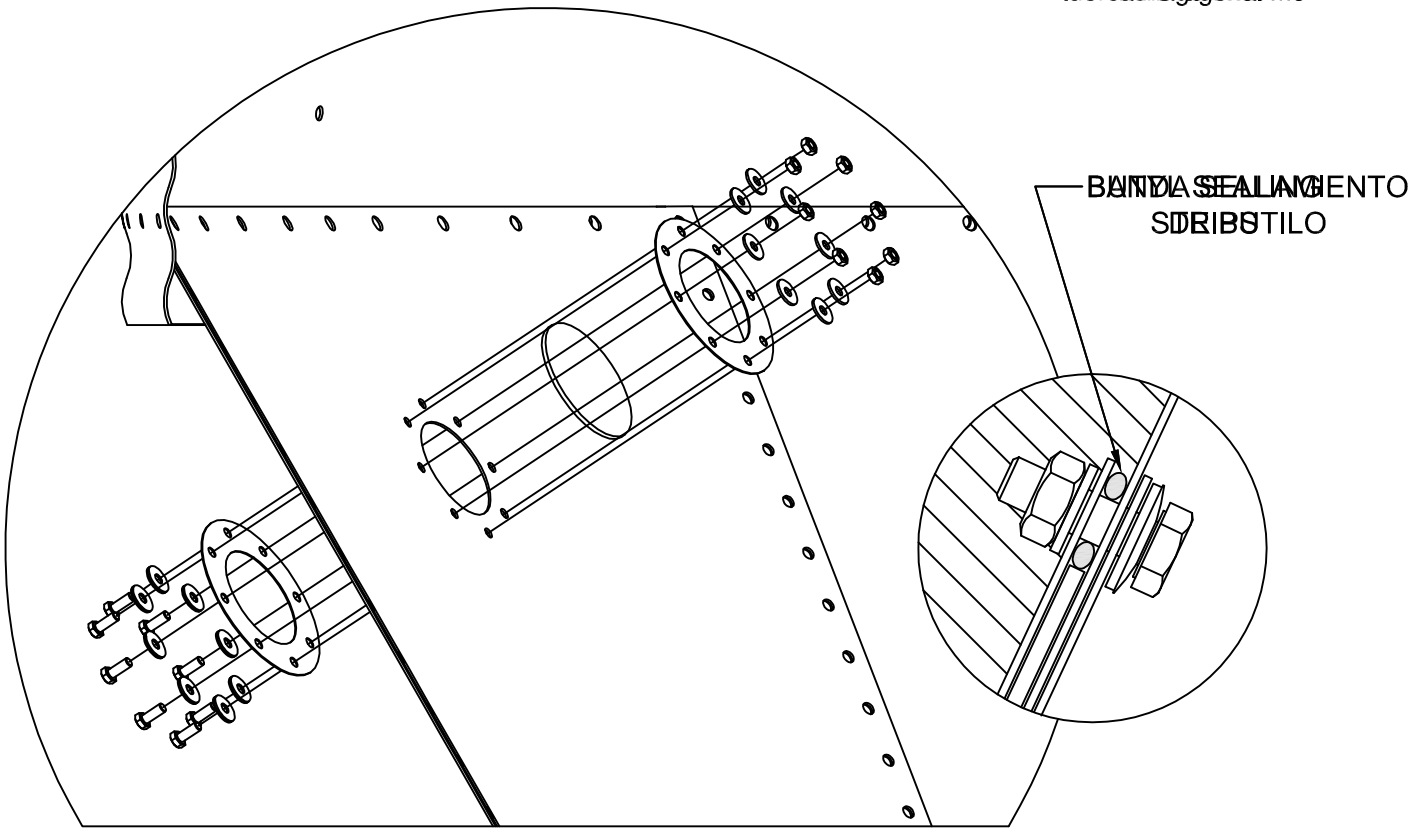


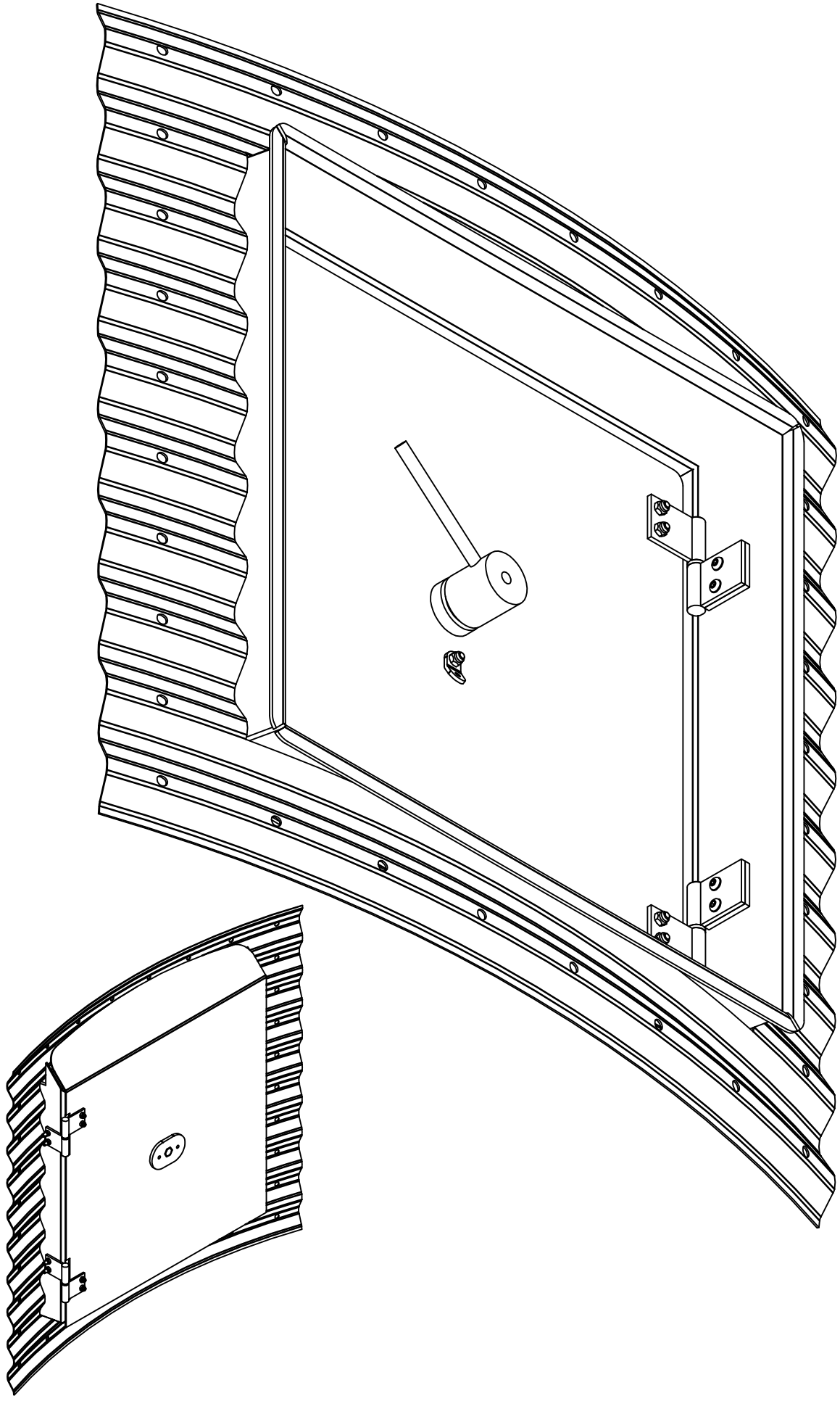
Tornillo hexagonal M8x30 +
arandela de goma +
arandela +
tuerca hexagonal M8

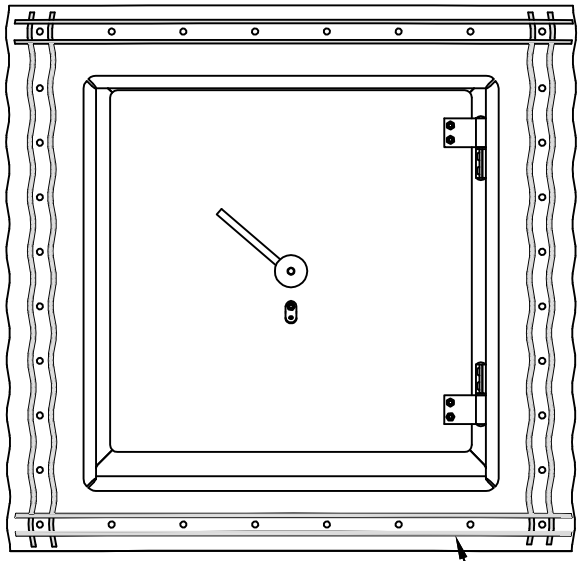




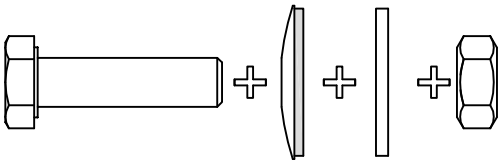
Tornillo hexagonal M8x30 + arandela de goma + arandela de acero + tuerca hexagonal M8





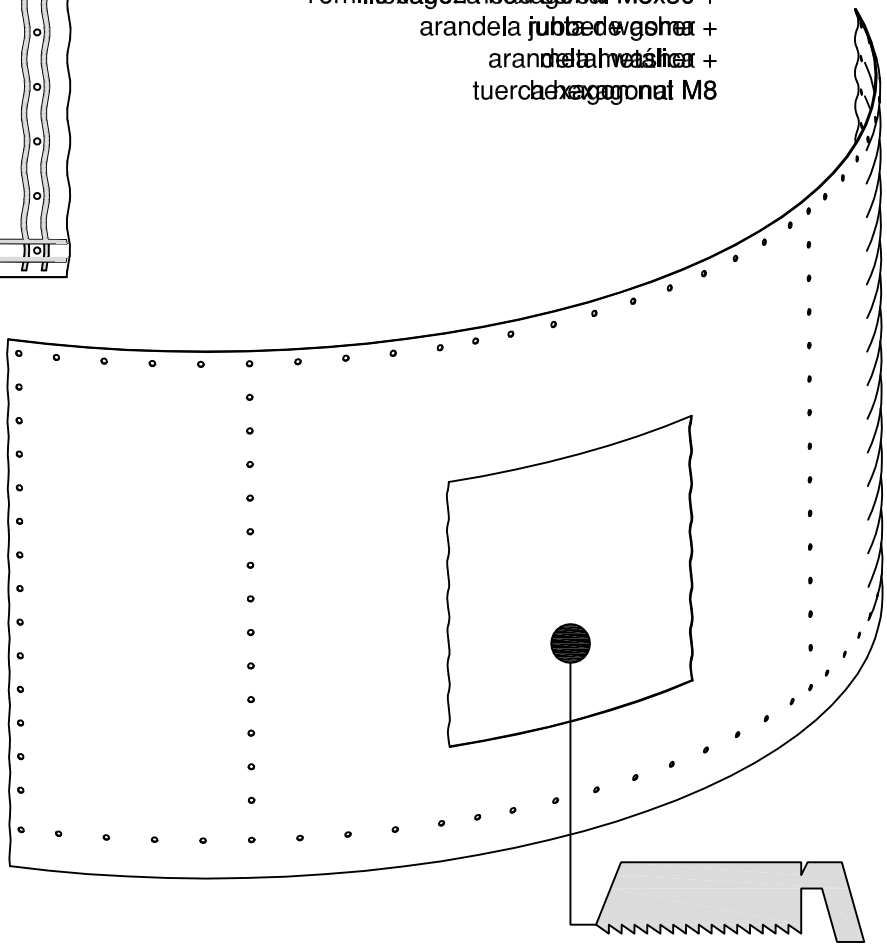


32x

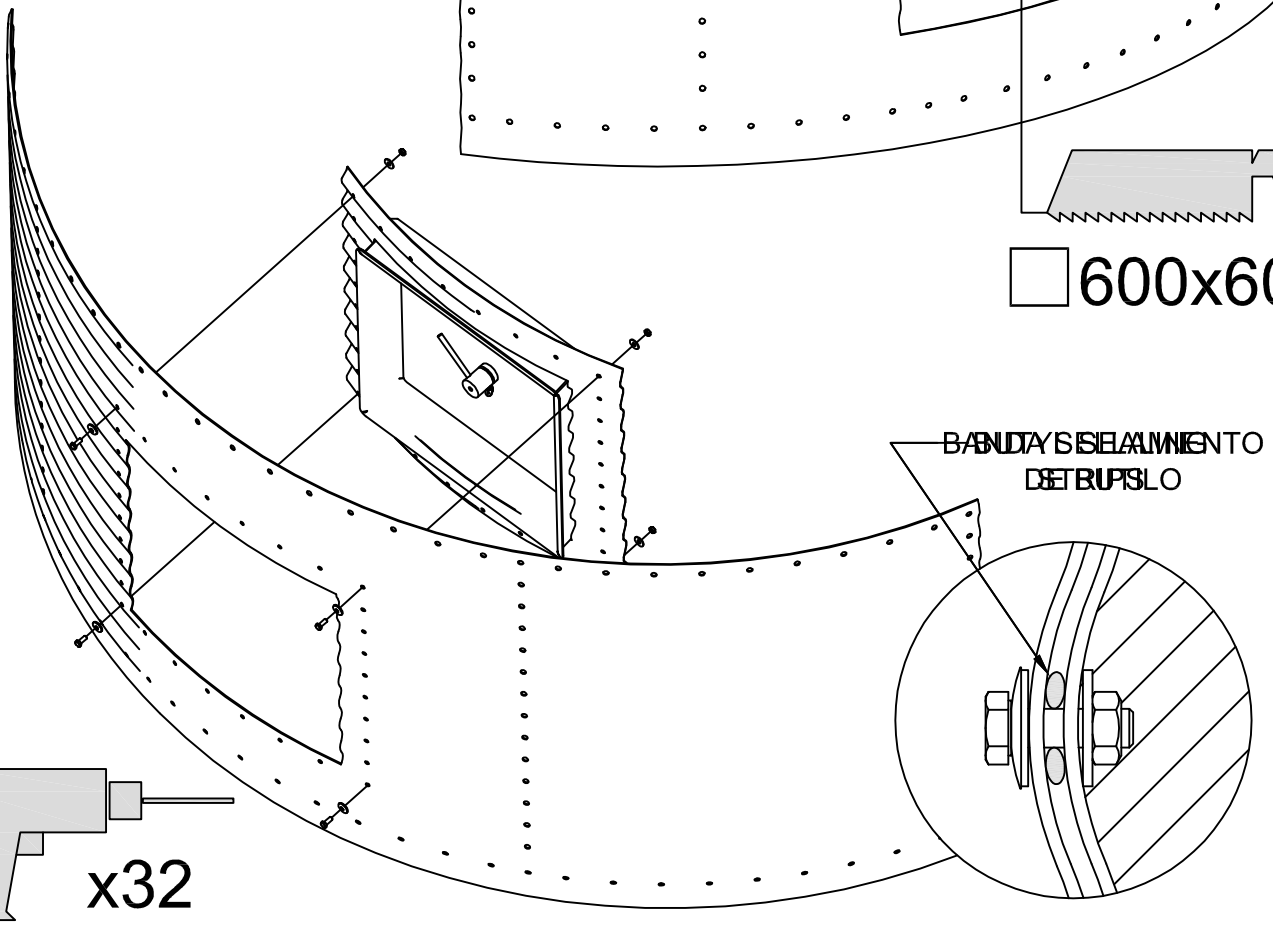


Tornillo cabeza hexagonal M8x30 +
arandela junta de goma +
arandela metálica +
tuerca hexagonal M8

BANDA SELLADO DE BUTILO
BUTYL SEALING STRIP



600x600

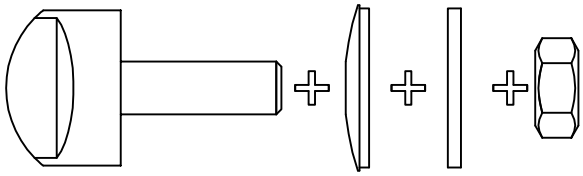


BANDA SELLADO DE BUTILO
BUTYL SEALING STRIP

x32

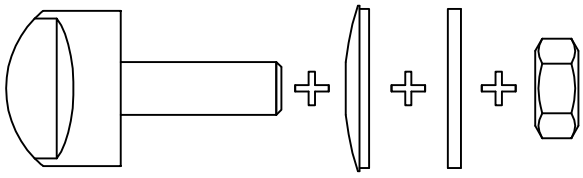
Union type 11

Tornillo cabeza plastificada M8x25 + arandela junta de goma + arandela metálica + tuerca hexagonal M8



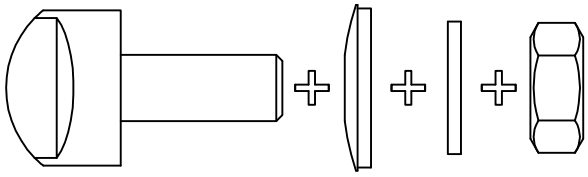
Union type 22

Tornillo cabeza plastificada M8x25 + arandela junta de goma + arandela metálica + tuerca hexagonal M8



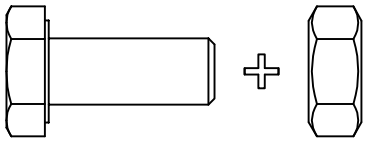
Union type 33

Tornillo cabeza plastificada M10x25 + arandela junta de goma + arandela metálica + tuerca hexagonal M10



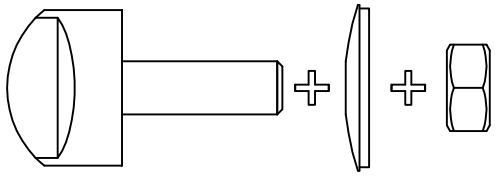
Union type 44

Tornillo cabeza hexagonal M10x25 + tuerca hexagonal M10



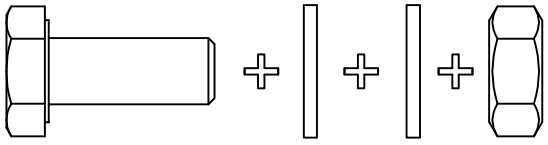
Union type 55

Tornillo cabeza plastificada M8x25 + arandela junta de goma + tuerca hexagonal M8



Union type 66

Tornillo cabeza hexagonal M10x25 + arandela metálica + arandela metálica + tuerca hexagonal M10



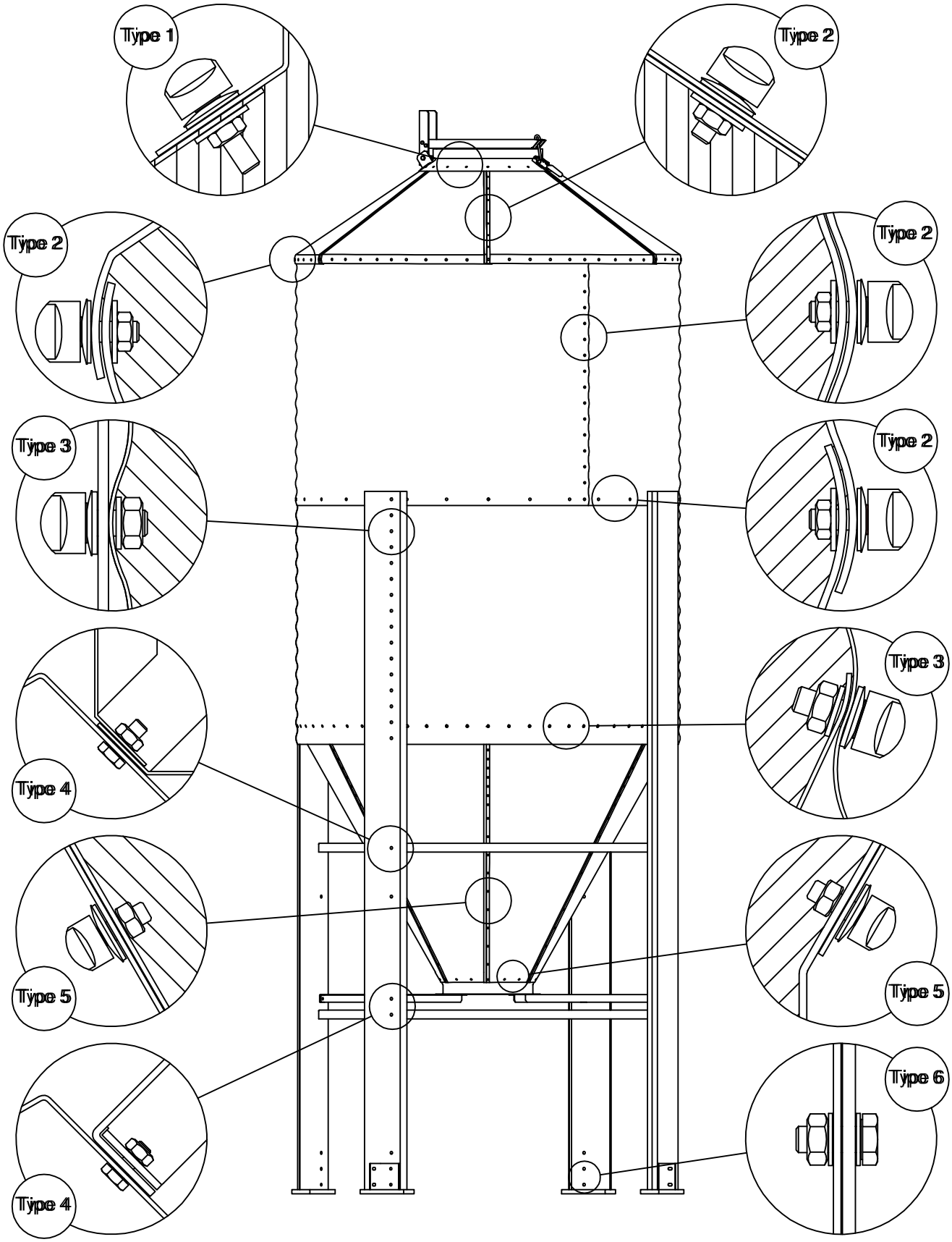
Todos los tornillos deben ser apretados sólo desde el lado de la tuerca. Al apretar las tuercas hay que impedir que gire la cabeza del tornillo para evitar que se dañen las juntas de goma.
Se pueden utilizar punteros para ayudar a alinear los agujeros.

All bolts are to be tightened from the nut side only. Do not allow bolt heads to spin to avoid damages in rubber joints.
Drift punches can be used to align holes.

Antes de introducir los tornillos debe comprobar que en esa posición, tanto el tipo de junta como la dirección en la que se introduce el tornillo es correcto. Asegúrese que toda la tornillería concuerda con el esquema de la página siguiente.

Before inserting the screws should be checked that in this position both the type of joint as the direction in which you enter the screw is correct. Make sure all bolts are consistent with the pattern on the next page.

IMPORTANTE: Apretar los tornillos con un par comprendido entre 13Nm y 26Nm.
IMPORTANT: Tighten bolts with a torque wrench between 13Nm y 26Nm.



Types of joints and their different positions.
Especificaciones, tornillos y tuercas especificadas.