IT

Sulpack Natural Plus 300

Istruzioni per il montaggio su superficie piana

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Per l'installazione del prodotto fare riferimento anche al manuale di installazione uso e manutenzione allegato al prodotto.
Si ricorda che tutte le operazioni quali l'installazione, la messa in servizio e la manutenzione devono essere effettuate da personale tecnico qualificato, in possesso dei requisisti di legge.

1. Contenuto dell'imballo di SULPACK NATURAL PLUS 300 (PSPACTER08)

Nell'imballo è contenuto il seguente materiale:

Rif.	Descrizione	Q.tà
1	Collettore solare vetrato piano	2
2	Boll'tore in acciaio vetrificato	1
3	Barra telaio in acciaio zincato - lunghezza 2000 mm	2
4	Barra telaio in acciaio zincato - lunghezza 1440 mm	2
5	Barra telaio in acciaio zincato - lunghezza 1370 mm	2
6	Barra telaio in acciaio zincato - lunghezza 1120 mm	2
7	Staffa a U sostegno boll'tore	2
8	Staffa a L sostegno boll'tore	2
9	Barra fissaggio collettore in alluminio - lunghezza 2060 mm	2
10	Bandella in acciaio forata - lunghezza 750 mm	4
11	Tubo in acciaio flessibile - lunghezza 670 mm	1
	Tubo in acciaio flessibile - lunghezza 2620 mm	1
12	Staffa a Ω per fissaggio tubo flessibile	1
13	Valvola di sicurezza acqua sanitaria - 6 bar	1
14	Valvola di sicurezza circuito solare - 3 bar	1
15	Curva ½" M x ½" M	2
	Curva a stringere con ogiva Ø 22 mm x ½" M	2
	Tappo a stringere con ogiva Ø 22 mm	2
	Giunzione a stringere con ogive Ø 22 mm x Ø 22 mm	2
	Tappo ½" M	2
	Nipple ½" M x ½" M	1
	Riduzione ½" M x ¾" F	1
	Guarnizione ½"	5
16	Bullone M10x25	15
	Rondella M10	25
	Dado M10	27
	Bullone a testa svasata M10x20 con cava esagonale	5
	Vite di fissaggio M6x50	4
	Tassello per vite di fissaggio M6x50	4
17	Tanica di liquido solare da 5 litri	1

1	2
3	4
5	6
7	8

9	10
11	12
13	14
15	16
17	

2. Contenuto del kit di installazione su superfice piana (PSKITPAC02)

Nell'imballo del kit è contenuto il seguente materiale:

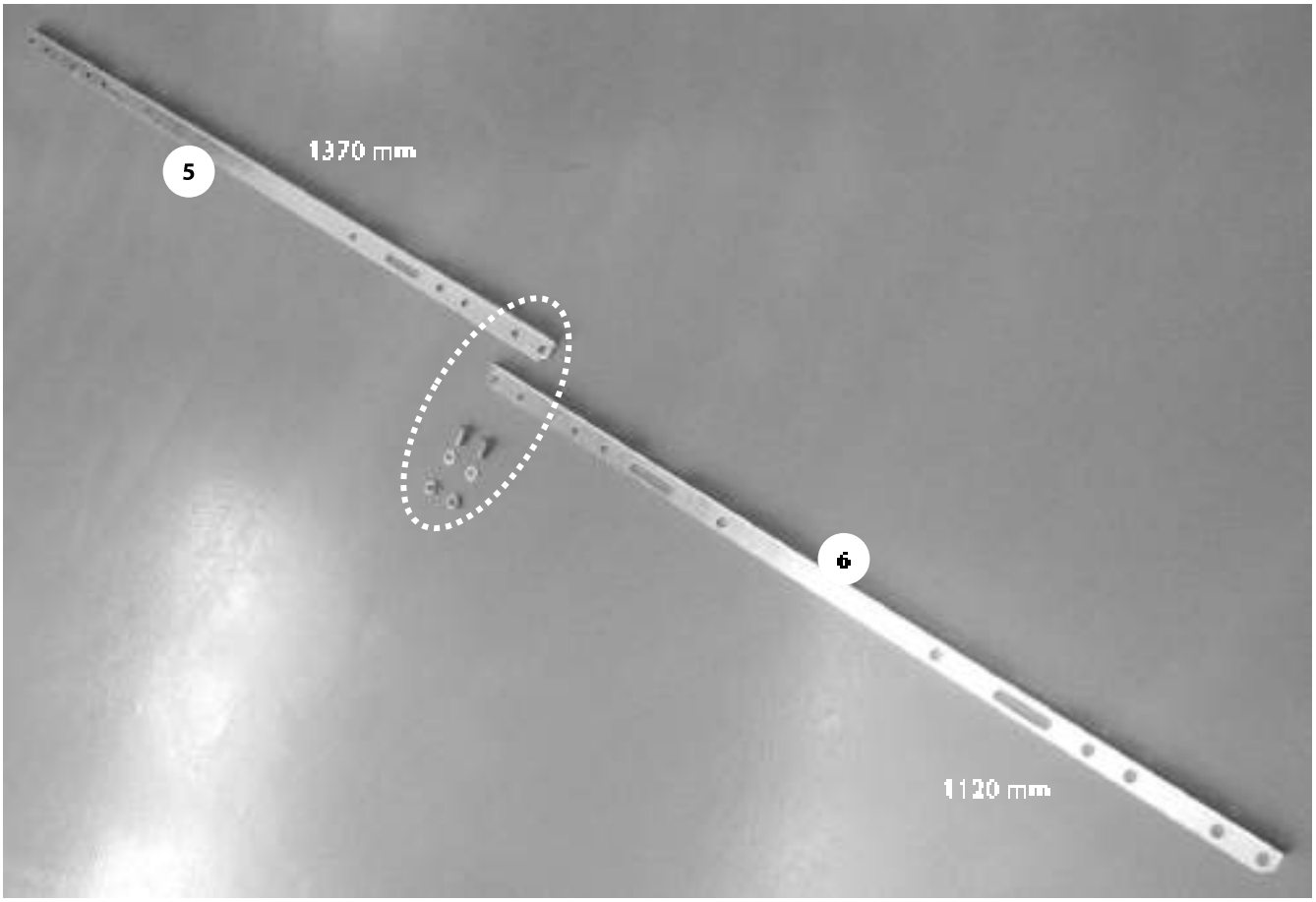
Rif.	Descrizione	Q.tà
5	Barra telaio in acciaio zincato - lunghezza 1370 mm	2
18	Barra sostegno telaio in acciaio zincato - lunghezza 970 mm	2
19	Barra a "X" in acciaio zincato - lunghezza 1550 mm	2
20	Bullone M10x25	6
	Rondella M10	12
	Dado M10	6
	Tassello per vite di fissaggio M8x50	4

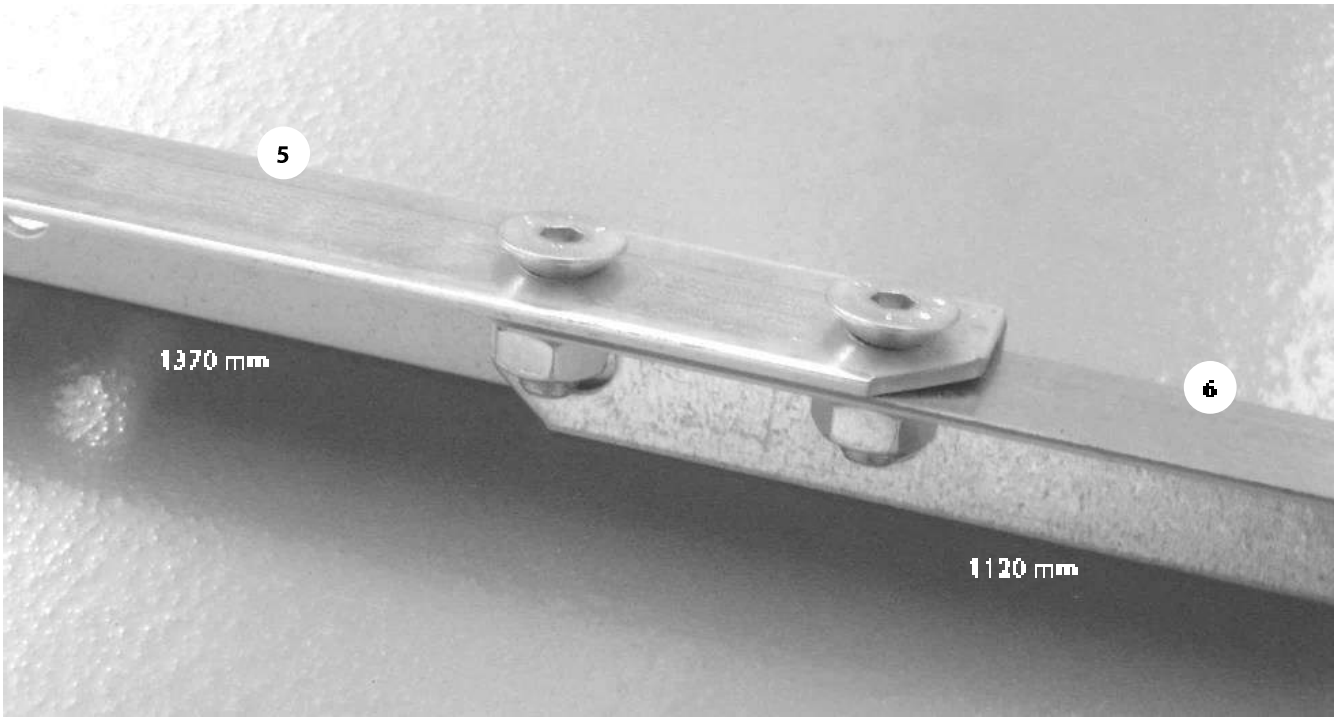
5	18
19	**20**

3. Montaggio della struttura

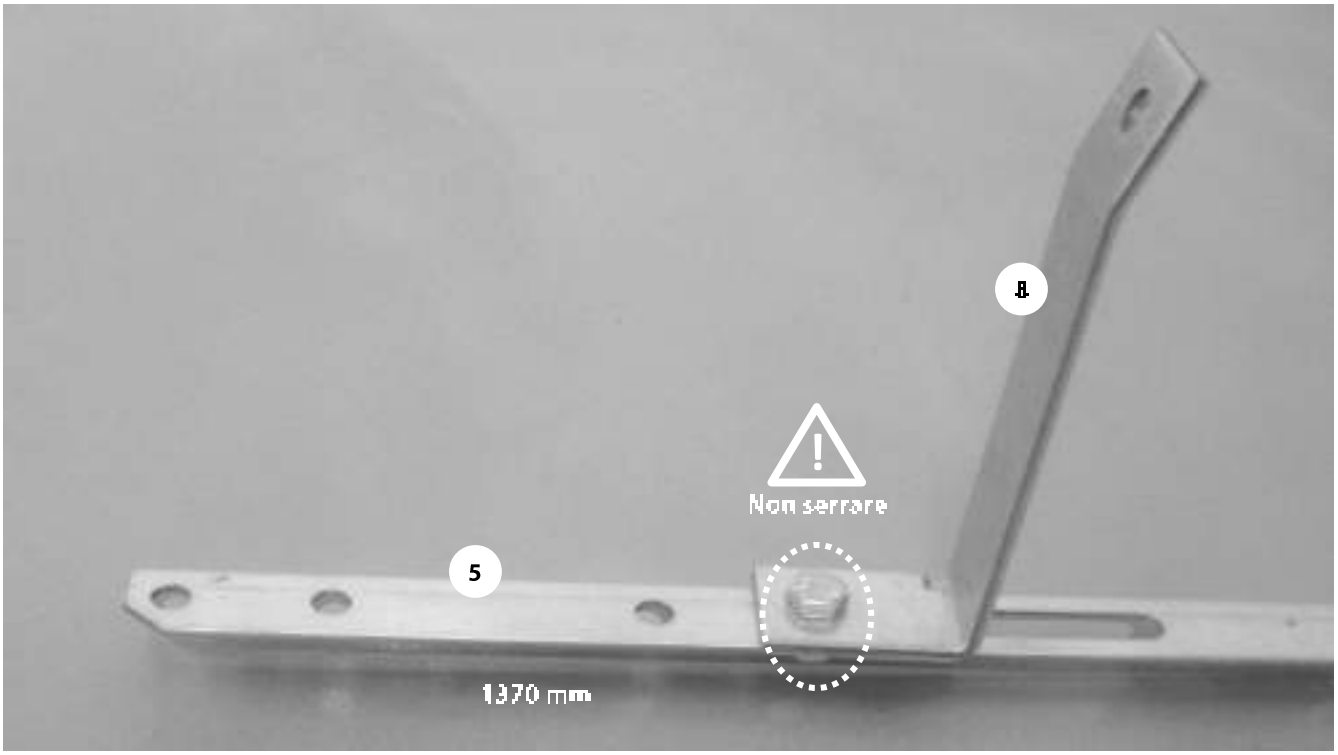
Per l'installazione della struttura di sostegno, seguire le istruzioni che seguono.
Le istruzioni dei punti da 3.1 a 3.5 mostrano come formare la struttura a triangolo destra.
La struttura a triangolo sinistra si forma nello stesso modo, ma simmetrica.

3.1 Unire una barra di lunghezza 1370 mm (**5**) con una barra di lunghezza 1120 mm (**6**) utilizzando 2 bulloni a testa svasata, 2 dadi e 2 rondelle.
La barra di lunghezza 1370 mm (**5**) dovrà sormontare la barra di lunghezza 1120 mm (**6**).

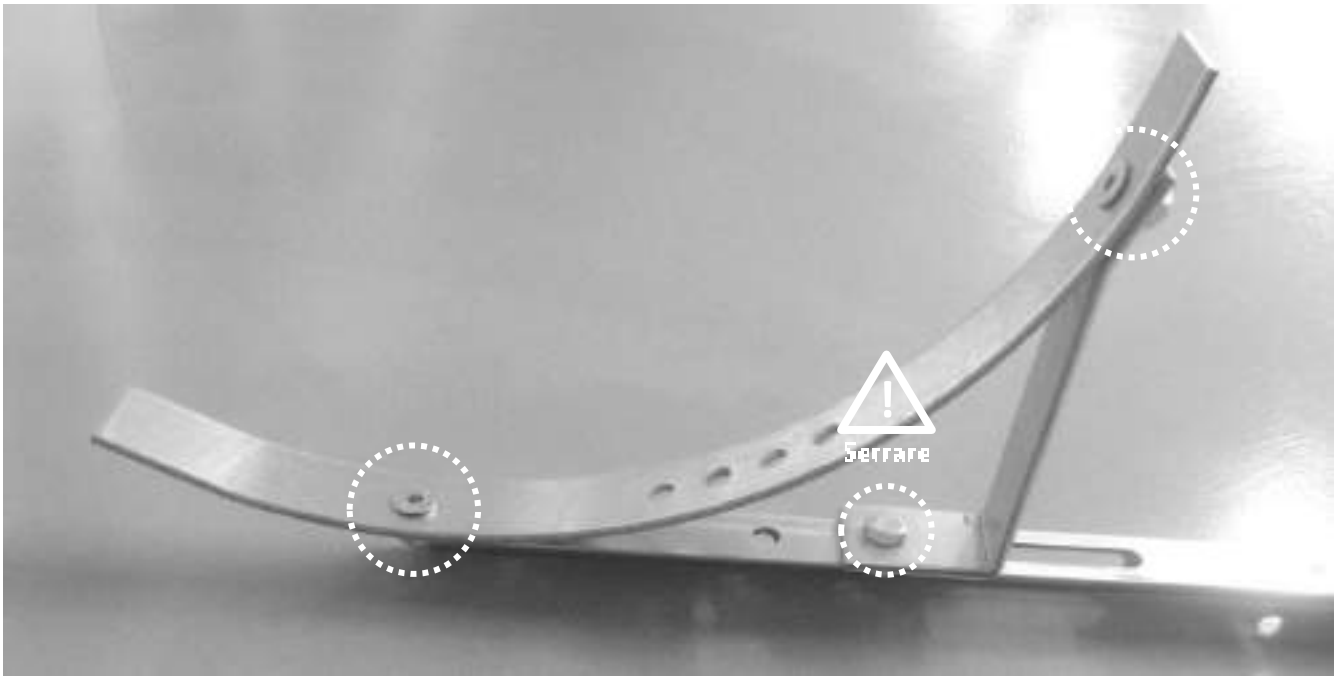




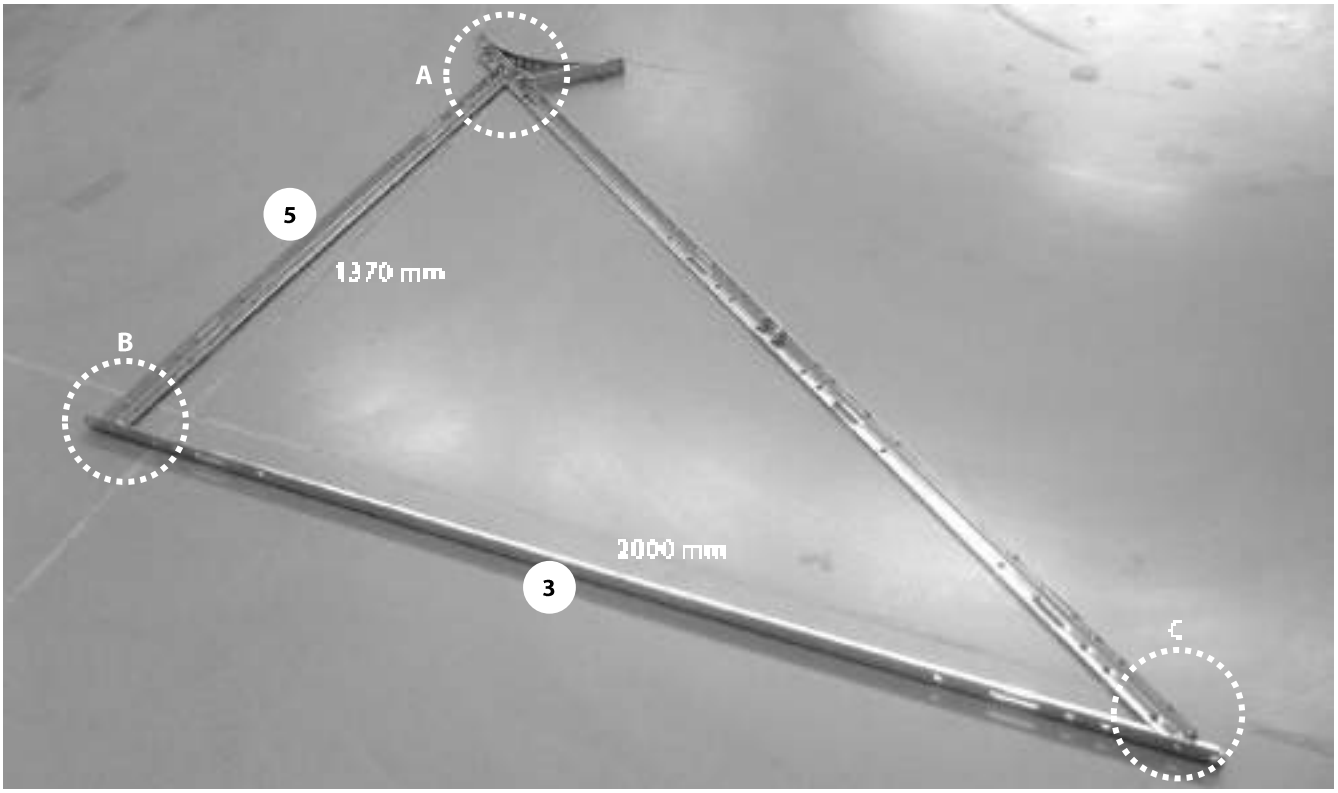
3.2 Alle barre appena assemblate fissare la staffa a L (8) utilizzando 1 bullone, 1 dado e 1 rondella.
La staffa a L dovrà essere fissata sulle barre di lunghezza 1370 mm (5).
ATTENZIONE: per il momento non serrare completamente dado e bullone.



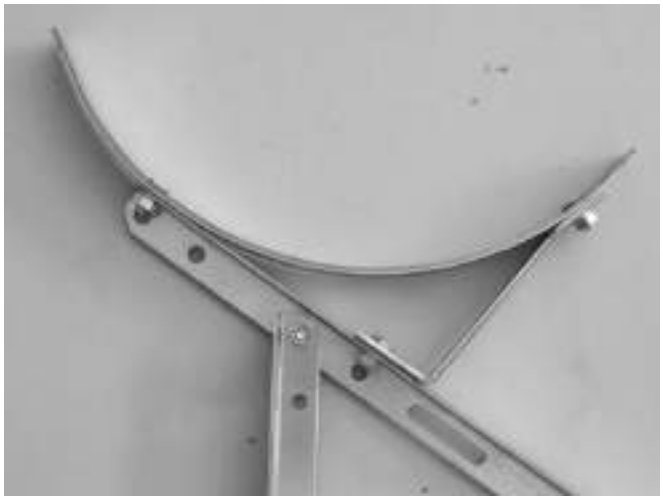
3.3 Fissare la staffa a U (7) utilizzando 2 bulloni a testa svasata, 2 dadi e 2 rondelle.
Una volta fissata la staffa a U (7), serrare dado e bullone che fissano la staffa a L (8).



3.4 Aggiungere alla struttura appena assemblata una barra di lunghezza 2000 mm (**3**) e una barra di lunghezza 1370 mm (**5**) formando una struttura a triangolo. Utilizzare 3 bulloni, 3 dadi e 3 rondelle.



A



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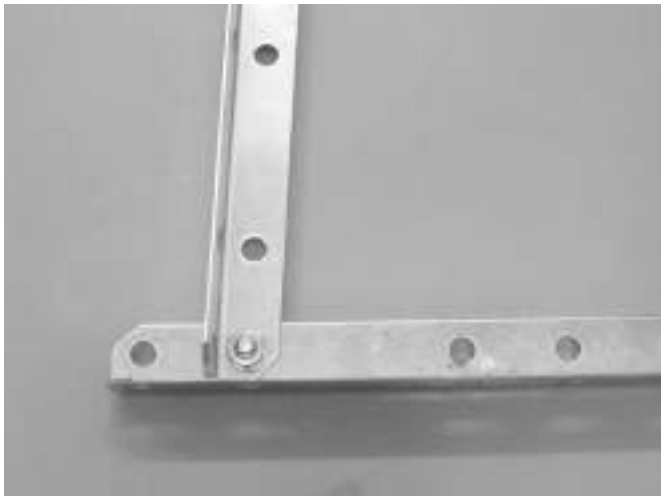
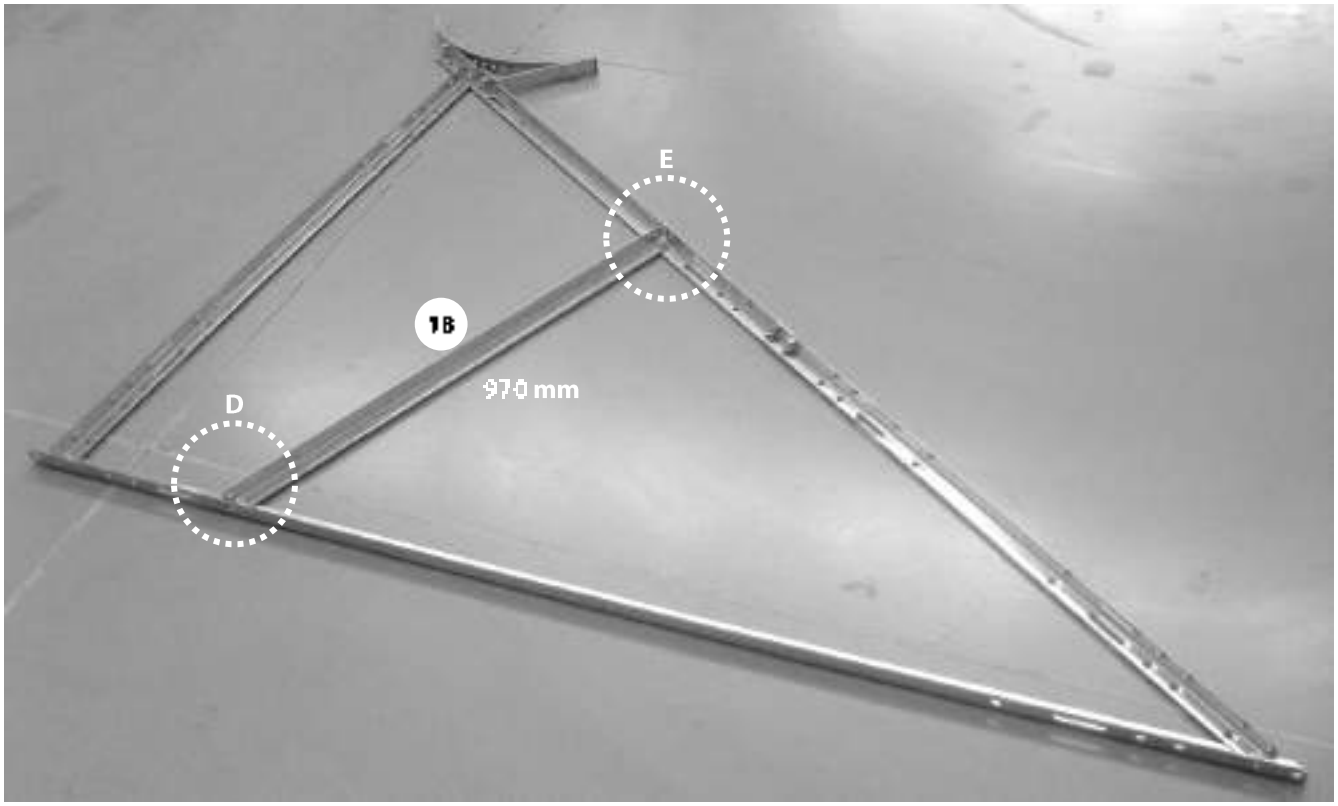


C

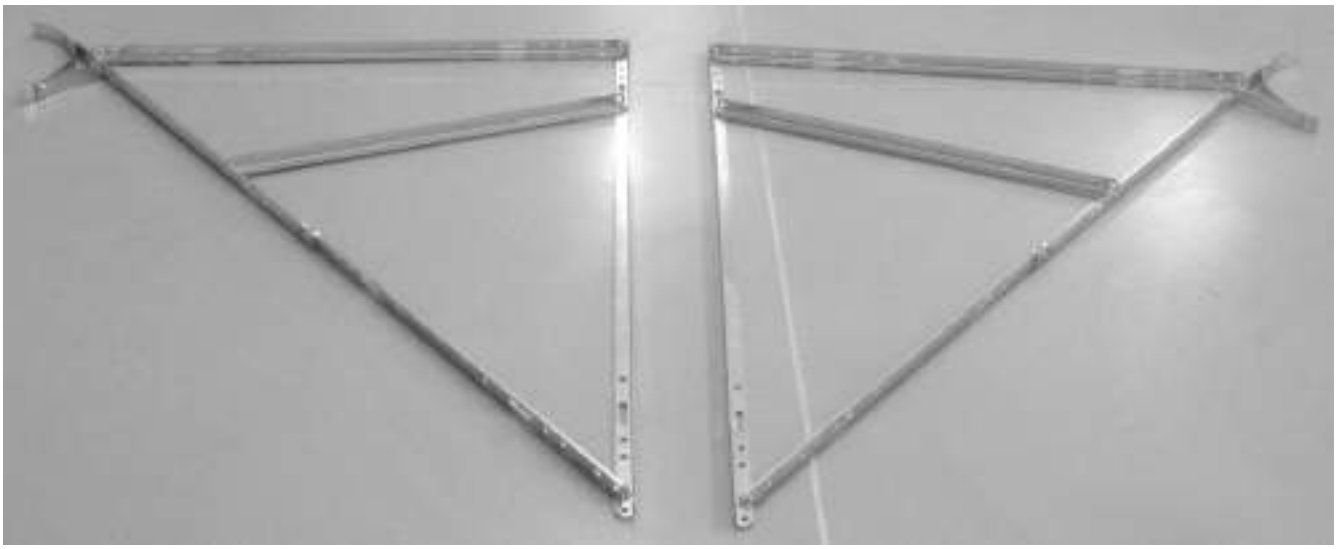
3.5 Aggiungere una barra di sostegno telaio di lunghezza 970 mm (**1B**) utilizzando 2 bulloni, 2 dadi e 2 rondelle.



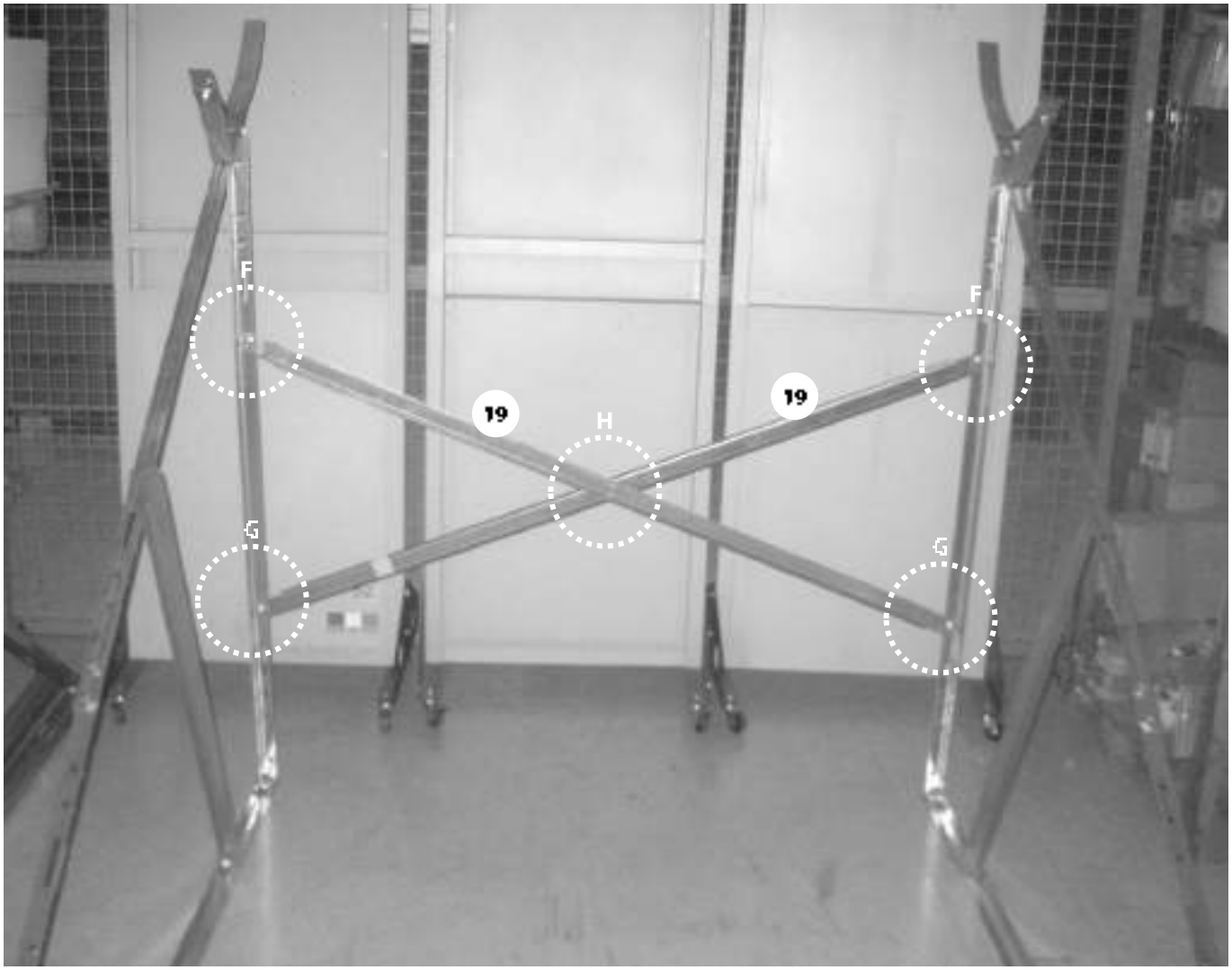
D

E

3.6 Ripetere le operazioni da 3.1 a 3.5 per costruire un'altra struttura come quella appena preparata, ma simmetrica.



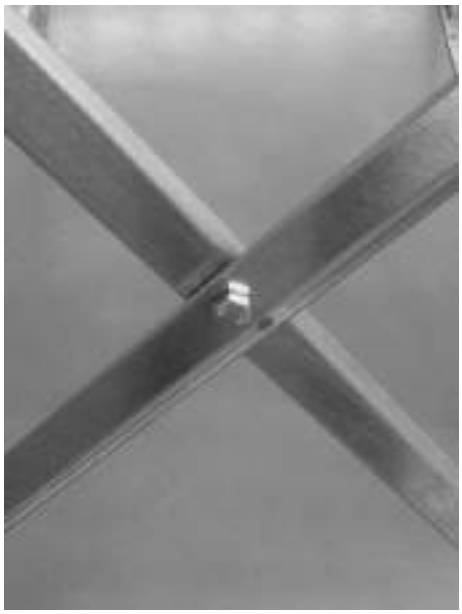
3.7 Utilizzando le 2 barre a "X" di lunghezza 1550 mm (**19**) unire le 2 strutture precedentemente costruite creando la struttura di sostegno della foto successiva. Utilizzare 5 bulloni, 5 dadi e 5 rondelle.



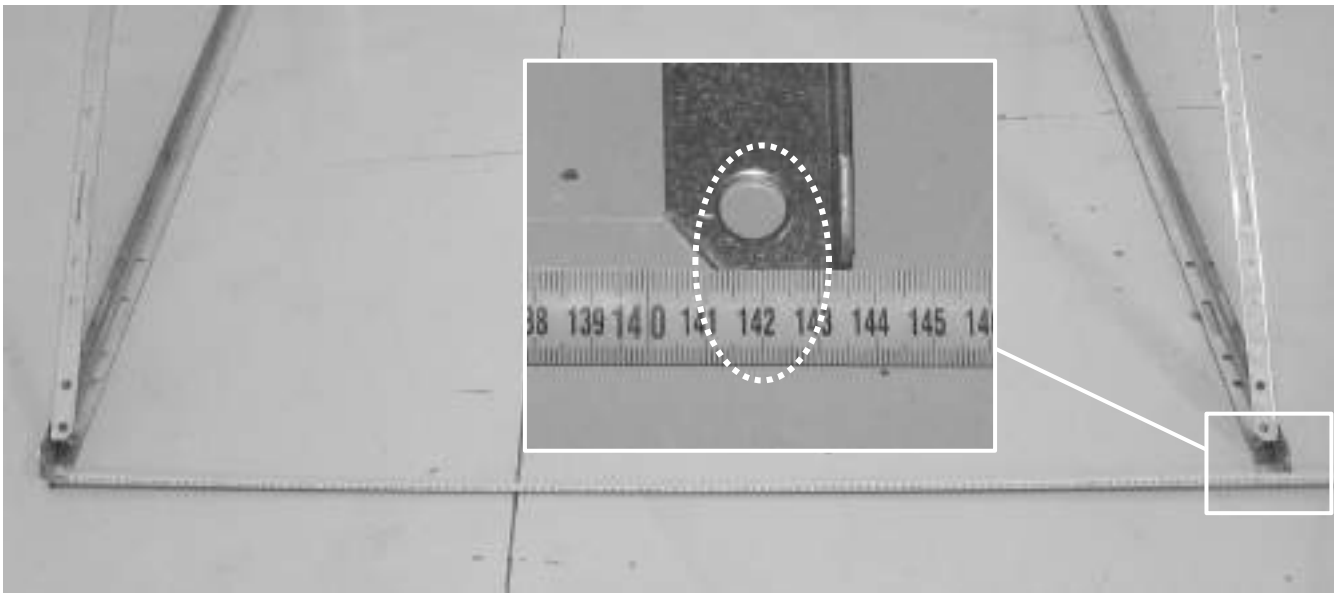
F

G

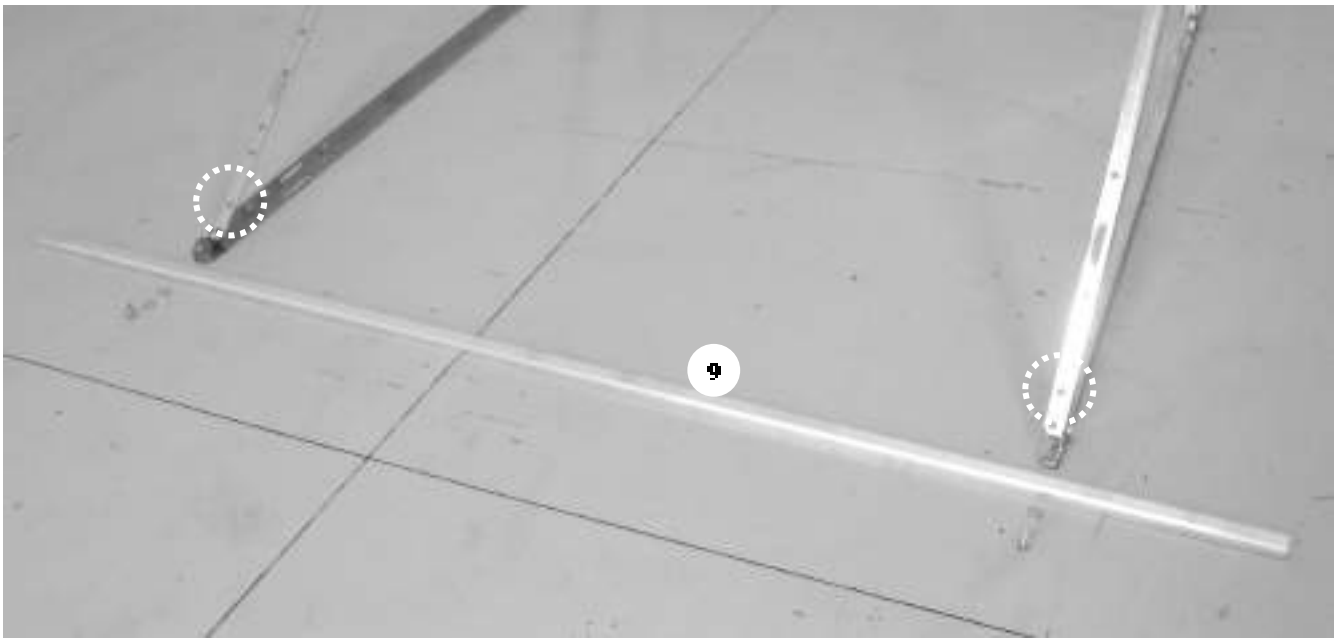
H

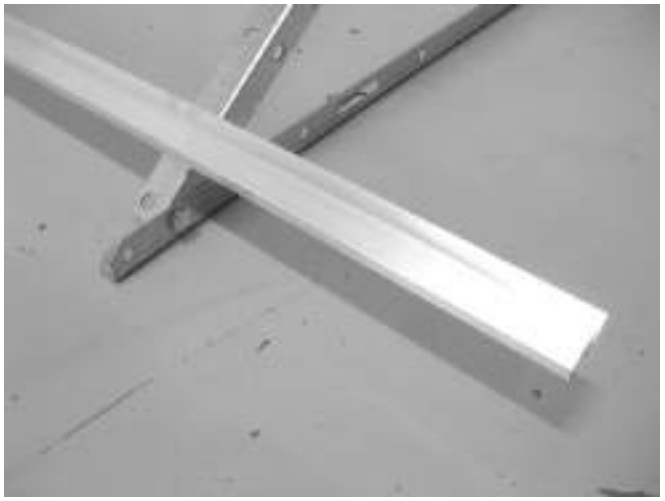


3.8 Assicurarsi che la distanza dai centri dei fori delle due strutture sia pari a 142 cm



3.9 Fissare nella parte inferiore della struttura una barra di fissaggio collettore di lunghezza 2060 mm (9), utilizzando 2 bulloni, 2 dadi e 2 rondelle

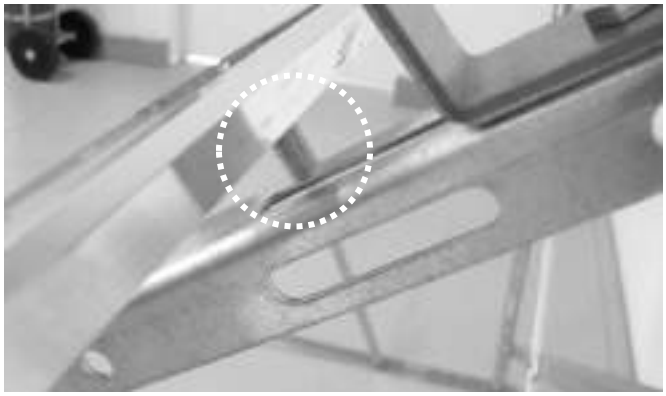


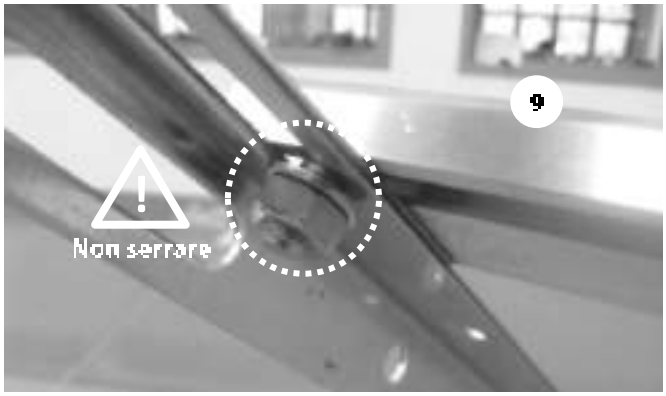


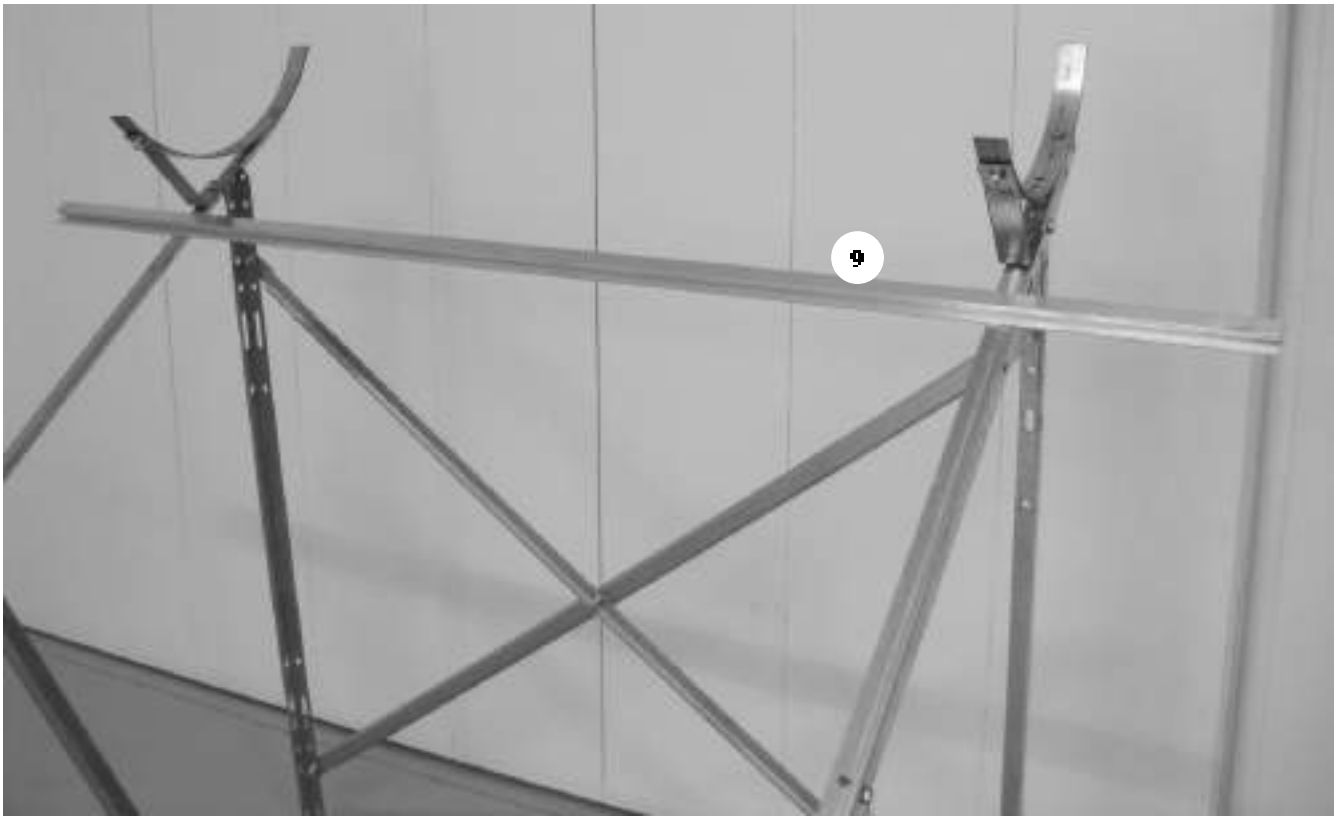
ATTENZIONE: la barra dovrà sporgere a destra e a sinistra della stessa lunghezza.

3.10 Fissare nella parte superiore della struttura la seconda barra di fissaggio collettore di lunghezza 2060 mm (9), utilizzando 2 bulloni, 2 dadi e 2 rondelle.

ATTENZIONE: i bulloni non dovranno essere serrati finché il pannello non sarà stato inserito nella struttura.

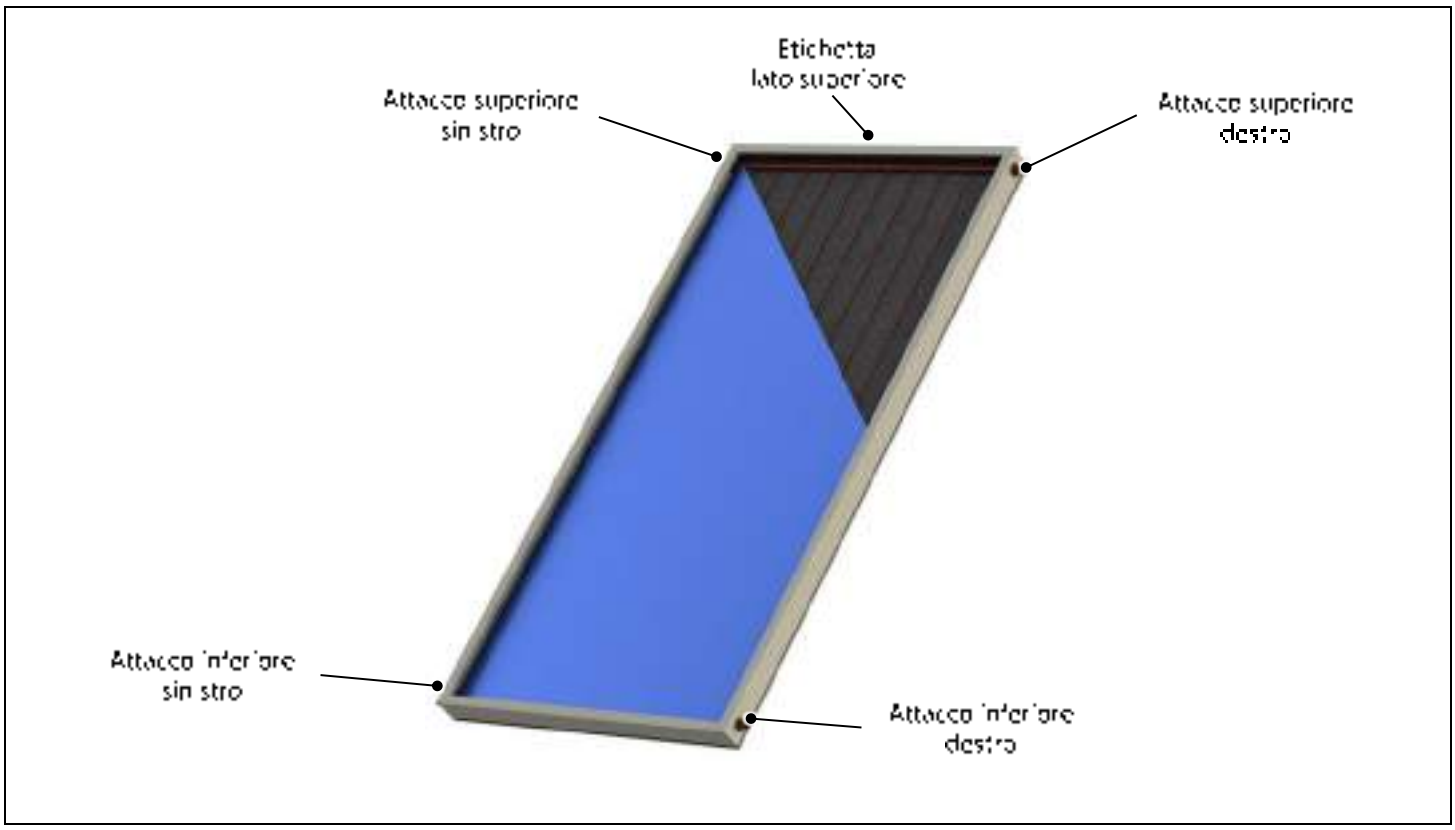






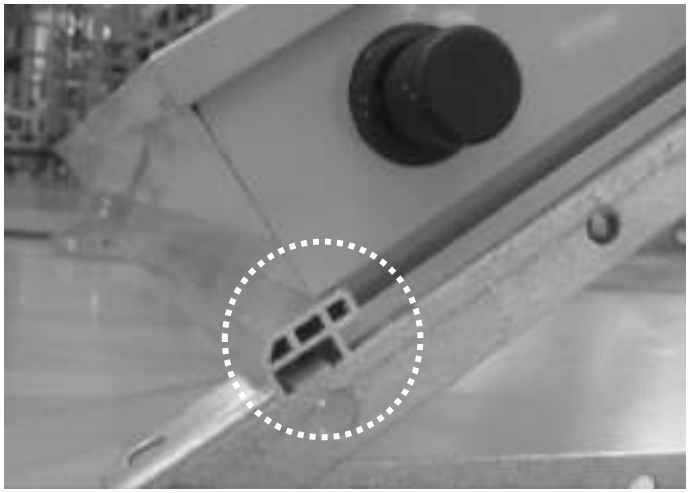
ATTENZIONE: la barra dovrà sporgere a destra e a sinistra della stessa lunghezza.

4. Installazione dei collettori solari

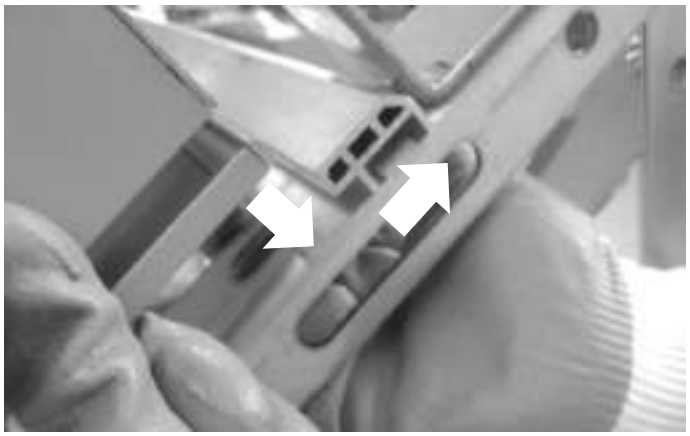


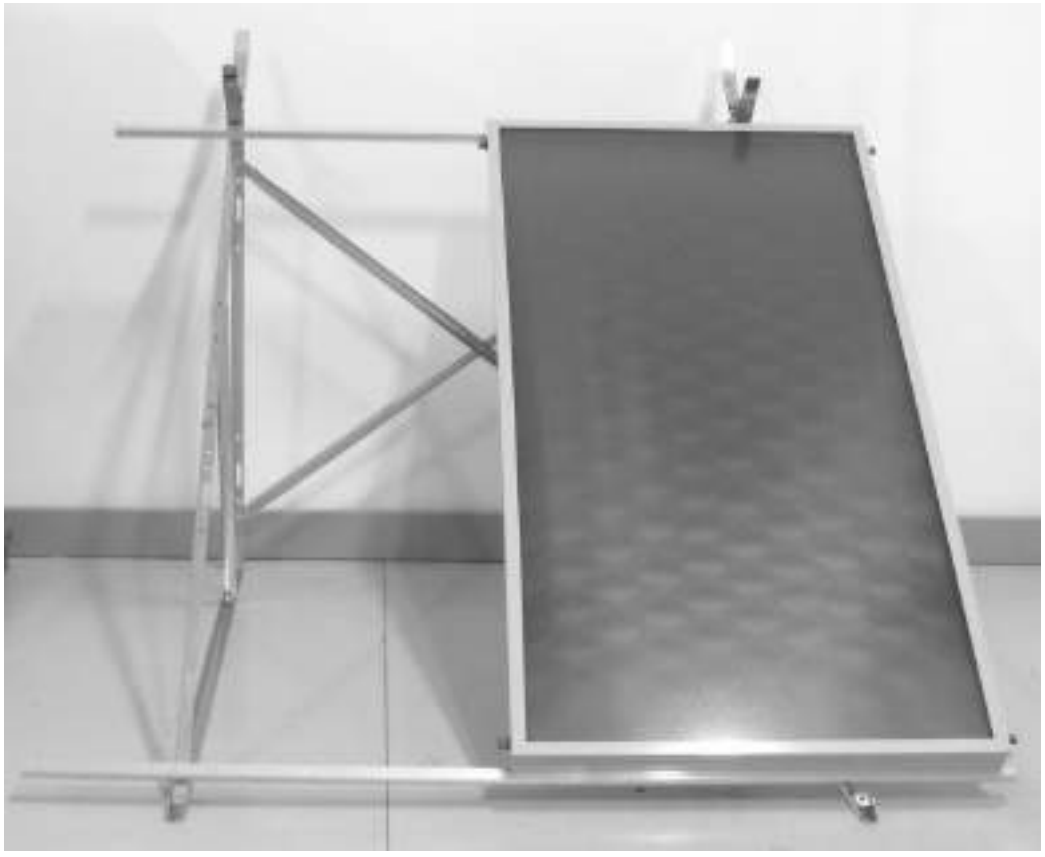
I collettori hanno un verso di installazione.
Il lato superiore è indicato da un'etichetta

4.1 Inserire il primo collettore solare nella parte destra della barra di fissaggio collettore inferiore (9) assicurandosi che si incastri come in figura



4.2 Inserire il collettore solare nella barra di fissaggio collettore superiore (9) facendo scorrere verso l'alto.



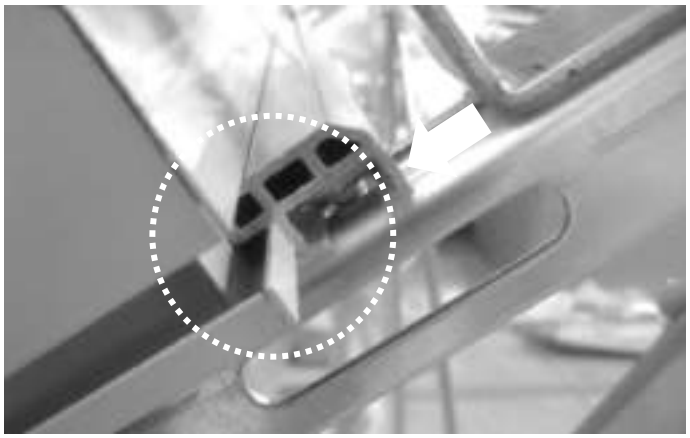


4.3 Ripetere le operazioni 4.1 e 4.2 per inserire il secondo collettore nella parte sinistra della struttura

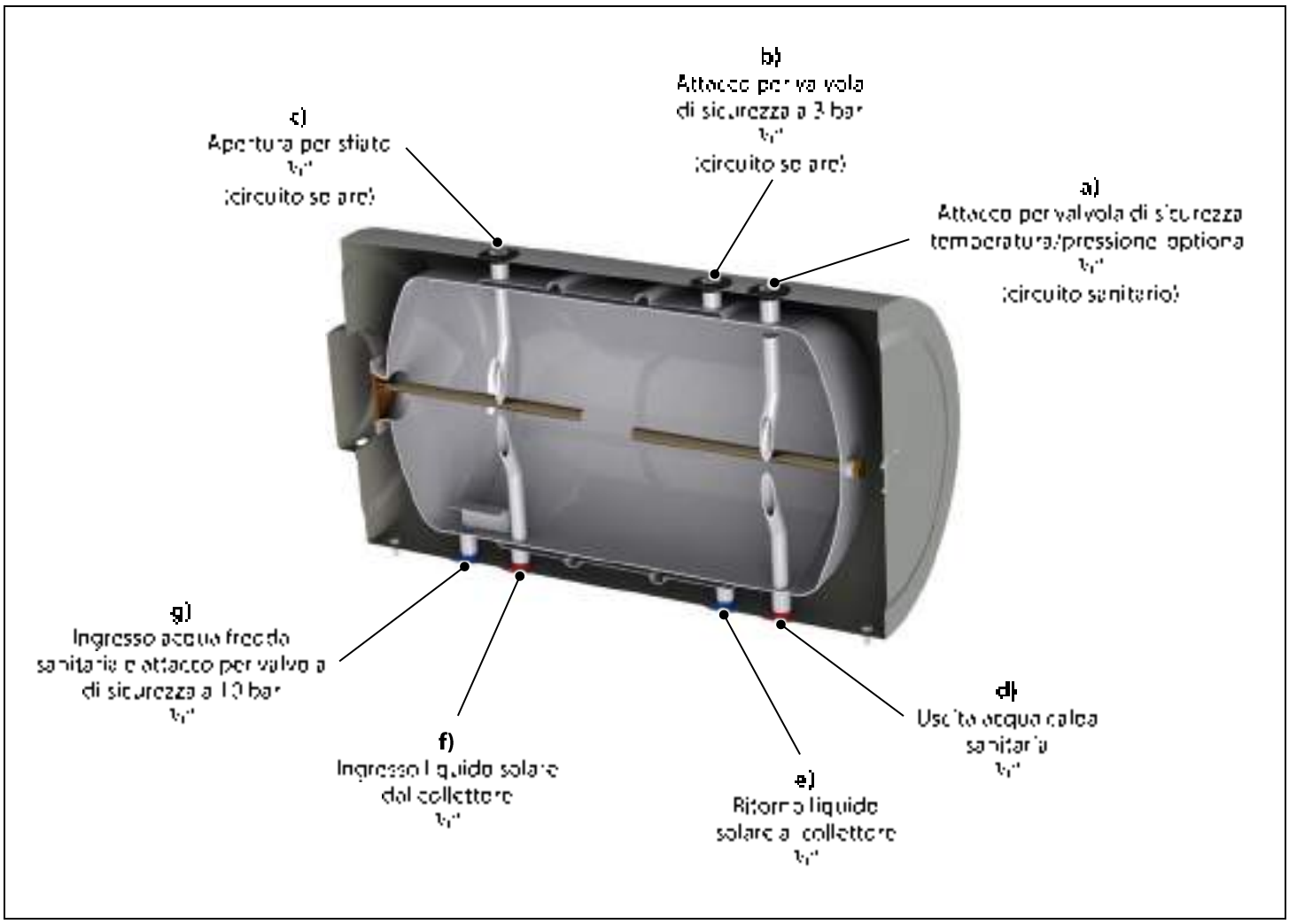
4.4 Utilizzando le 2 giunzioni a stringere con ogive Ø 22 mm x Ø 22 mm collegare i 2 collettori solari, in alto e in basso.

Attenzione: i 2 collettori dovranno essere centrati nella struttura.

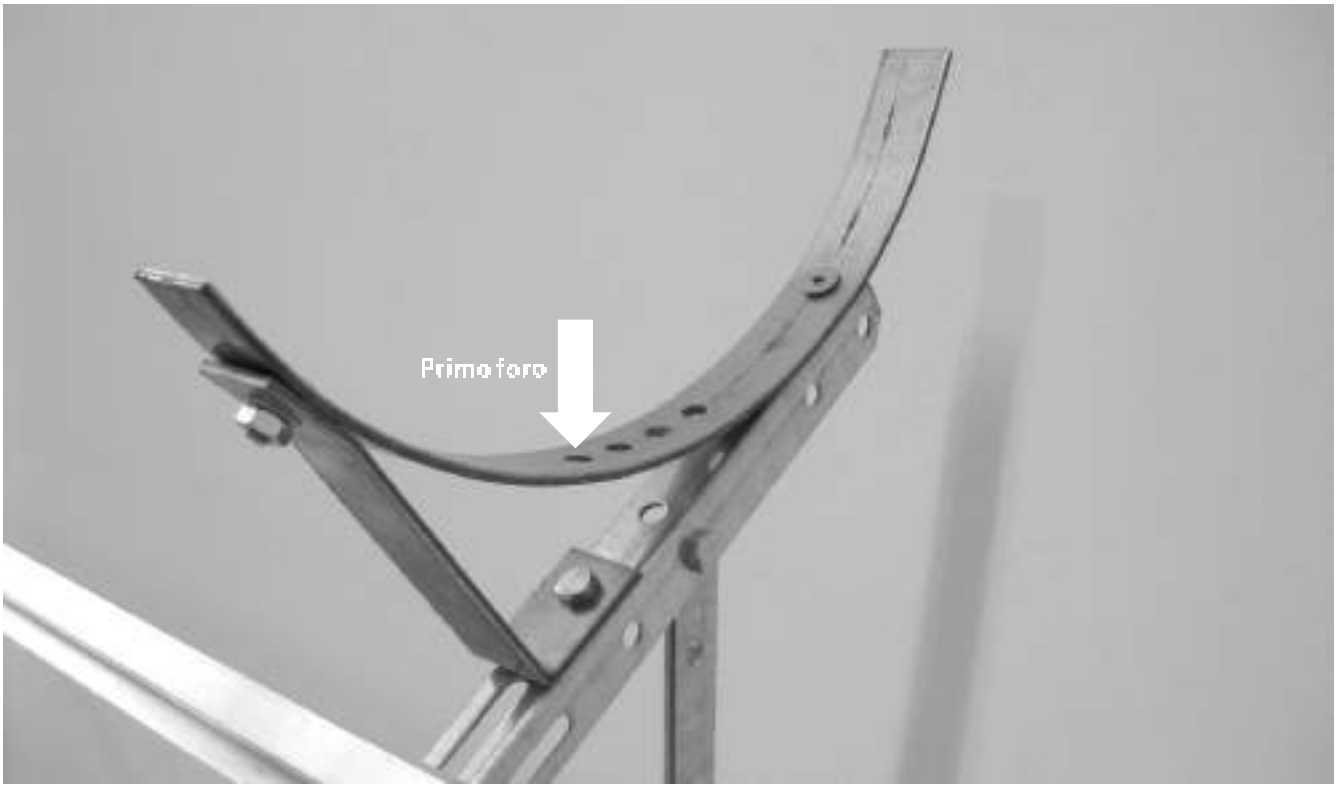
4.5 Spingere la barra fissaggio collettore superiore (9) verso il basso fino ad incastrarla nei collettori, quindi serrare i dadi.



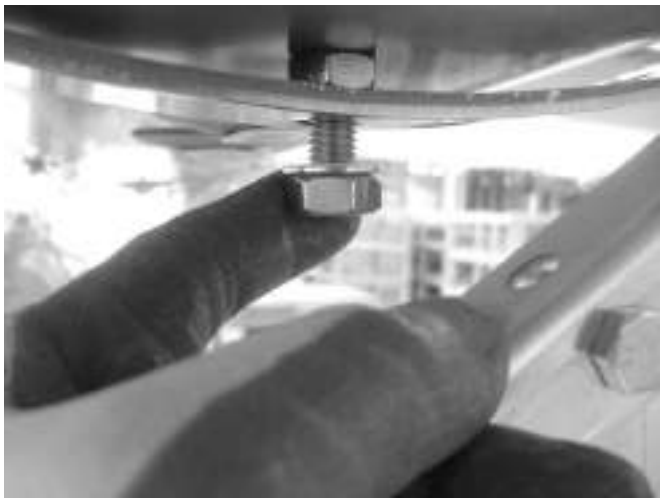
5. Installazione del bollitore e dei collegamenti idraulici



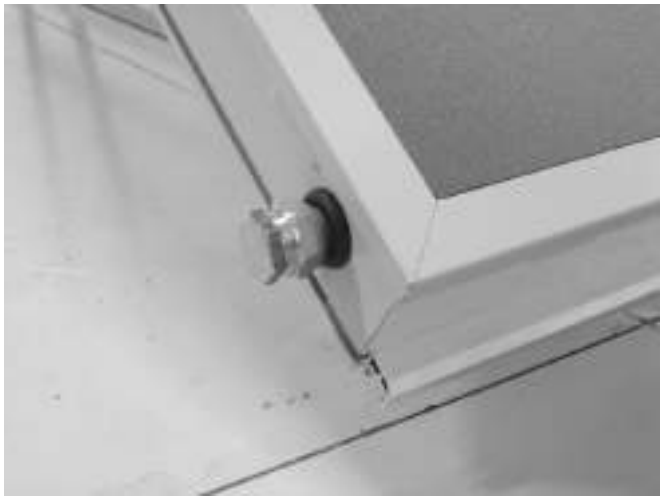
5.1 Inserire il bollitore nella struttura facendolo appoggiare sulle staffe a U.
Il bollitore è dotato di due inserti filettati M10 che dovranno essere inseriti nei **primi fori** delle staffe a U.



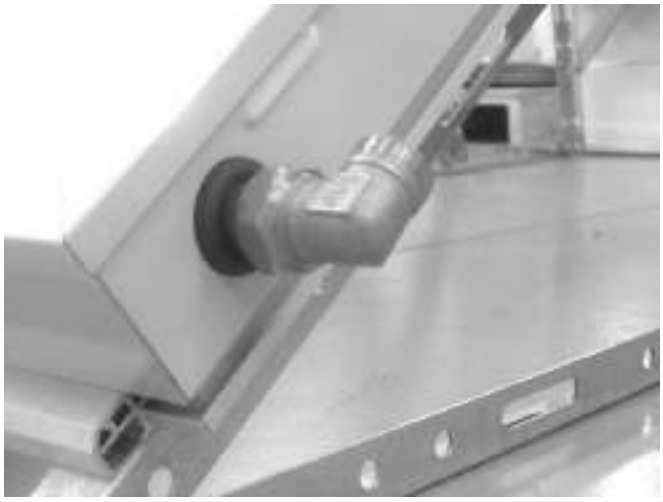
Fissare il bollitore utilizzando 2 dadi e 2 rondelle.



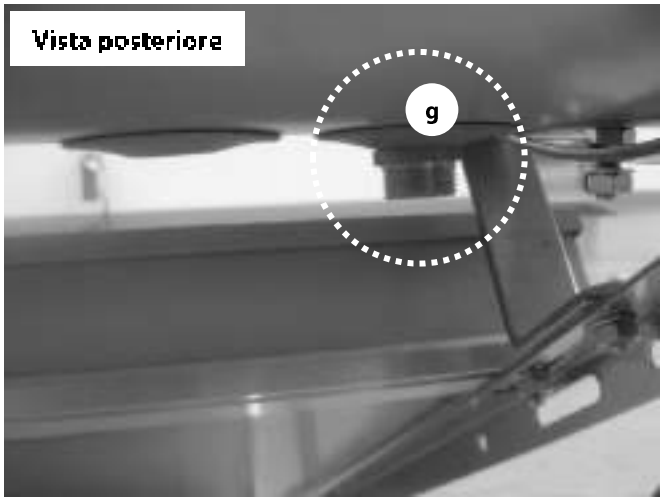
5.2 Fissare i due tappi a stringere Ø 22 mm sulle connessioni in alto a destra e in basso a sinistra della coppia di collettori solari.

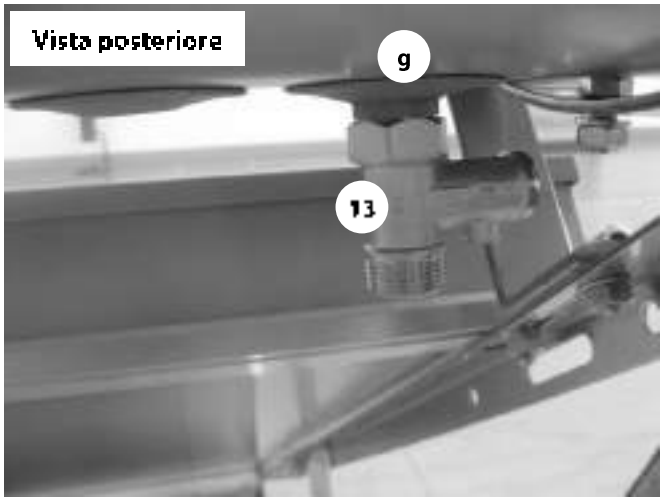


5.3 Fissare le due curve a stringere Ø 22 mm x ½" M sulle connessioni in alto a sinistra e in basso a destra della coppia di collettori solari.

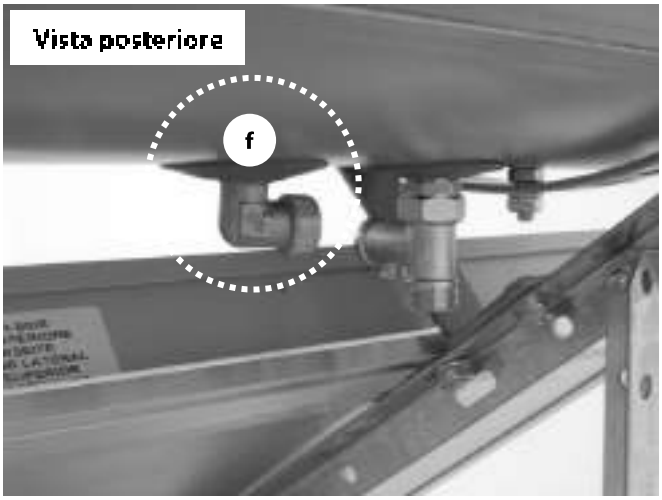


5.4 Utilizzando un nipple ¾" M ½" M collegare la valvola di sicurezza acqua sanitaria a 6 bar (13) all'ingresso acqua fredda sanitaria del boll tore (g).
Utilizzare un nastro sigillante adatto alle alte temperature per la sigillatura dei filetti.

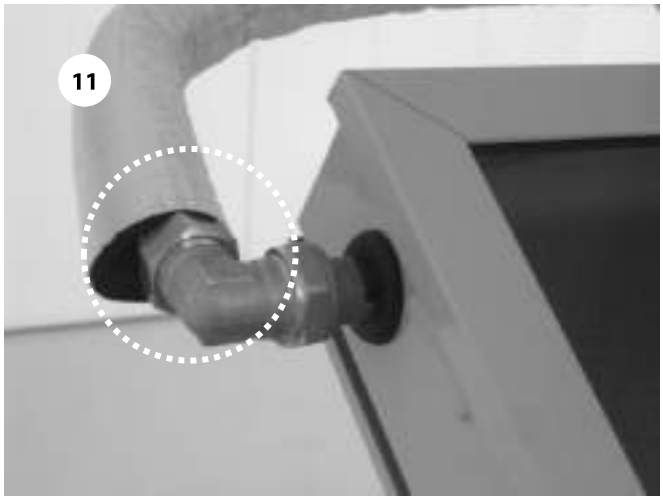


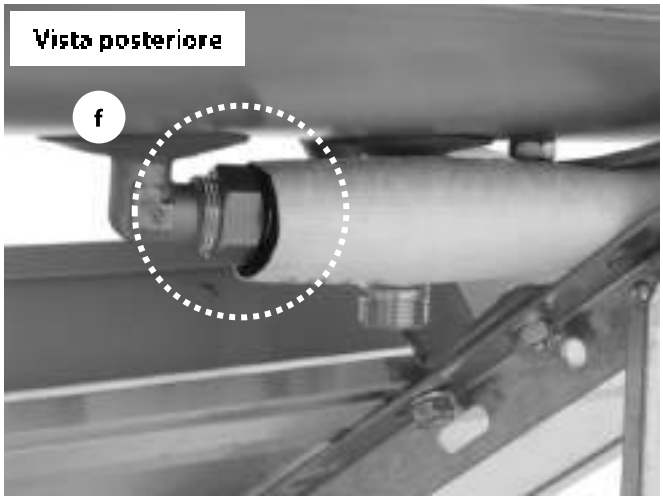


5.5 Inserire una curva ¾" M x ¾" M a l'ingresso liquido solare del boll tore (f).
Utilizzare un nastro sigillante adatto alle alte temperature per la sigillatura dei filetti.



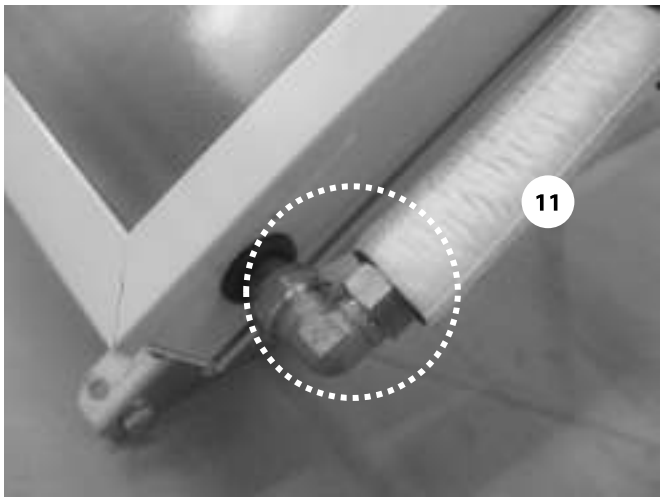
5.6 Utilizzando due guarnizioni 3/4" collegare il tubo in acciaio flessibile lunghezza 670 mm (**11**) alla connessione in alto a sinistra del collettore solare sinistro e all'ingresso liquido solare del bollitore (**f**).
Il tubo in acciaio flessibile dovrà avere un andamento verso l'alto partendo dal attacco del collettore verso l'attacco del bollitore (**f**).

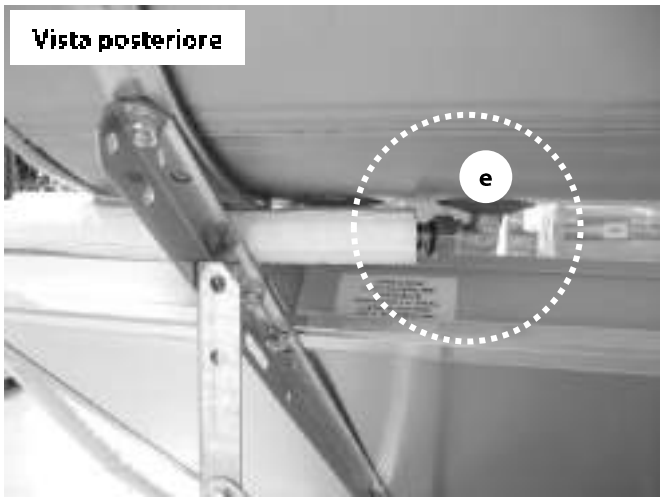




5.7 Inserire una curva 3/4" M x 3/4" M al ritorno liquido solare del bollitore (**e**).
Utilizzare un nastro sigillante adatto alle alte temperature per la sigillatura dei filetti.

5.8 Utilizzando due guarnizioni 3/4" collegare il tubo in acciaio flessibile lunghezza 2620 mm (**11**) alla connessione in basso a destra del collettore solare destro e al ritorno liquido solare del bollitore (**e**).





5.9 Fissare il tubo lunghezza 2620 mm (11) al collettore utilizzando la Staffa a Ω (**12**).

5.10 A questo punto è possibile fissare la struttura sulla superficie di appoggio utilizzando le 4 viti e 4 tasselli forniti a corredo (**16**) e (**20**). Nel caso in cui i tasselli forniti non fossero necessari o adatti al tipo di superficie, procurarsi tasselli adatti allo scopo.

5.11 Collegare l'ingresso acqua fredda e l'uscita acqua calda ai rispettivi attacchi sul bollitore (g) e (d) rispettivamente

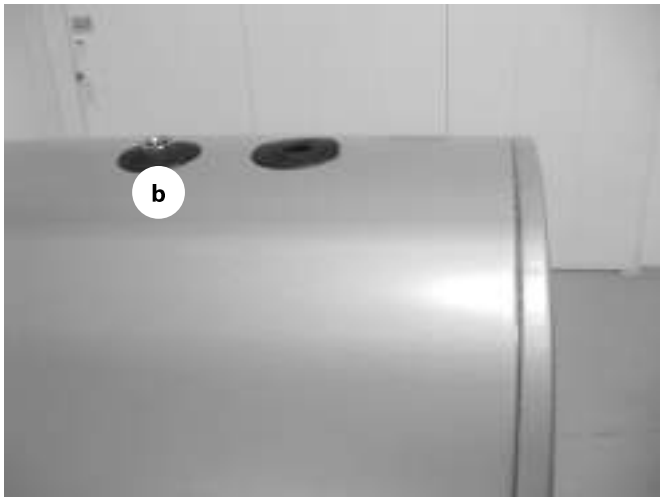
5.12 Procedere al riempimento del bollitore, lato acqua sanitaria come da capitolo **Riempimento dell'impianto** del **Manuale di installazione, uso e manutenzione**.

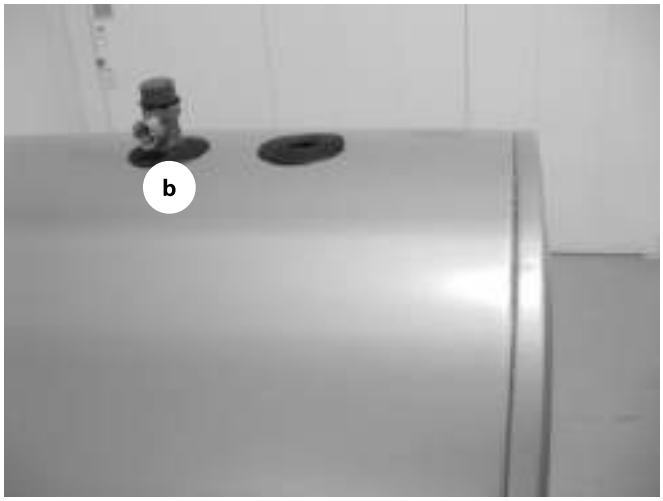
5.13 Una volta riempito il bollitore, installare una valvola di sicurezza temperatura/pressione (optional) se prevista nell'attacco corrispondente del bollitore (**a**). In caso contrario tappare questo foro con il tappo ¾" M.
Utilizzare un nastro sigillante adatto alle alte temperature per la sigillatura dei filetti.

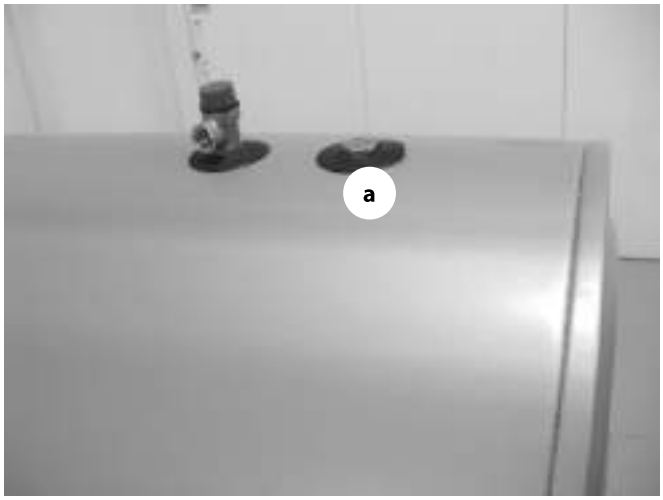
5.14 Dopo aver miscelato il glicole propilenico procedere al riempimento del circuito solare come da capitolo **Riempimento dell'impianto** del **Manuale di installazione, uso e manutenzione**.

5.15 Una volta riempito il circuito, installare la valvola di sicurezza a 3 bar nel attacco corrispondente sul bollitore (**b**) utilizzando la riduzione ¾" M x ½" F.
Utilizzare un nastro sigillante adatto alle alte temperature per la sigillatura dei filetti.

5.16 Installare il tappo ½" M nell'attacco (**c**).
Utilizzare un nastro sigillante adatto alle alte temperature per la sigillatura dei filetti.







ES

Sulpack Natural Plus 300

Instrucciones para el montaje en superficies planas

fondital

Índice

1. Contenido del embalaje de SUI PACK NATURA PLUS 300 (PSPACTER081) 27
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Para la instalación del producto consultar también el manual de instalación de uso y mantenimiento suministrado con el producto.
Todas las operaciones como la instalación, la puesta en servicio y el mantenimiento deben ser realizados por personal técnico cualificado, en conformidad con los requisitos legales.

1. Contenido del embalaje de SULPACK NATURAL PLUS 300 (PSPACTER08)

El embalaje contiene el siguiente material:

Ref.	Descripción	Cant.
1	Colector solar plano de vidrio	2
2	Hervidor de acero vitrificado	1
3	Barra bastidor de acero galvanizado - longitud 2000 mm	2
4	Barra bastidor de acero galvanizado - longitud 1440 mm	2
5	Barra bastidor de acero galvanizado - longitud 1370 mm	2
6	Barra bastidor de acero galvanizado - longitud 1120 mm	2
7	Sostén en U apoyo hervidor	2
8	Sostén en L apoyo hervidor	2
9	Barra de fijación de aluminio - longitud 2050 mm	2
10	Eje de acero perforado - longitud 790 mm	4
11	Tubo de acero flexible - longitud 670 mm	1
	Tubo de acero flexible - longitud 2620 mm	1
12	Sostén en Ω para fijación tubo flexible	1
13	Válvula de seguridad agua sanitaria - 6 bar	1
14	Válvula de seguridad circuito solar - 3 bar	1
15	Curva ½" M x ½" M	2
	Curva para ajustar con ojiva Ø 22 mm x ½" M	2
	Tapón para ajustar con ojiva Ø 22 mm	2
	Junta para ajustar con ojiva Ø 22 mm x 22 mm	2
	Tapón ½" M	2
	Niple ½" M x ½" M	1
	Reducción ½" M x ¾" H	1
	Junta ½"	5
16	Bulón M10x25	19
	Arandela M10	29
	Tuerca M10	27
	Bulón de cabeza avellanada M10x20 con rosca hexagonal	9
	Tornillo de fijación M8x50	4
	Taco para tornillo de fijación M8x50	4
17	Bidón de líquido solar de 5 litros	1

1	2
3	4
5	6
7	8

9	10
11	12
13	14
15	16
17	

2. Contenido del kit de instalación en superficie plana (PSKITPAC02)

El embalaje del kit contiene el siguiente material:

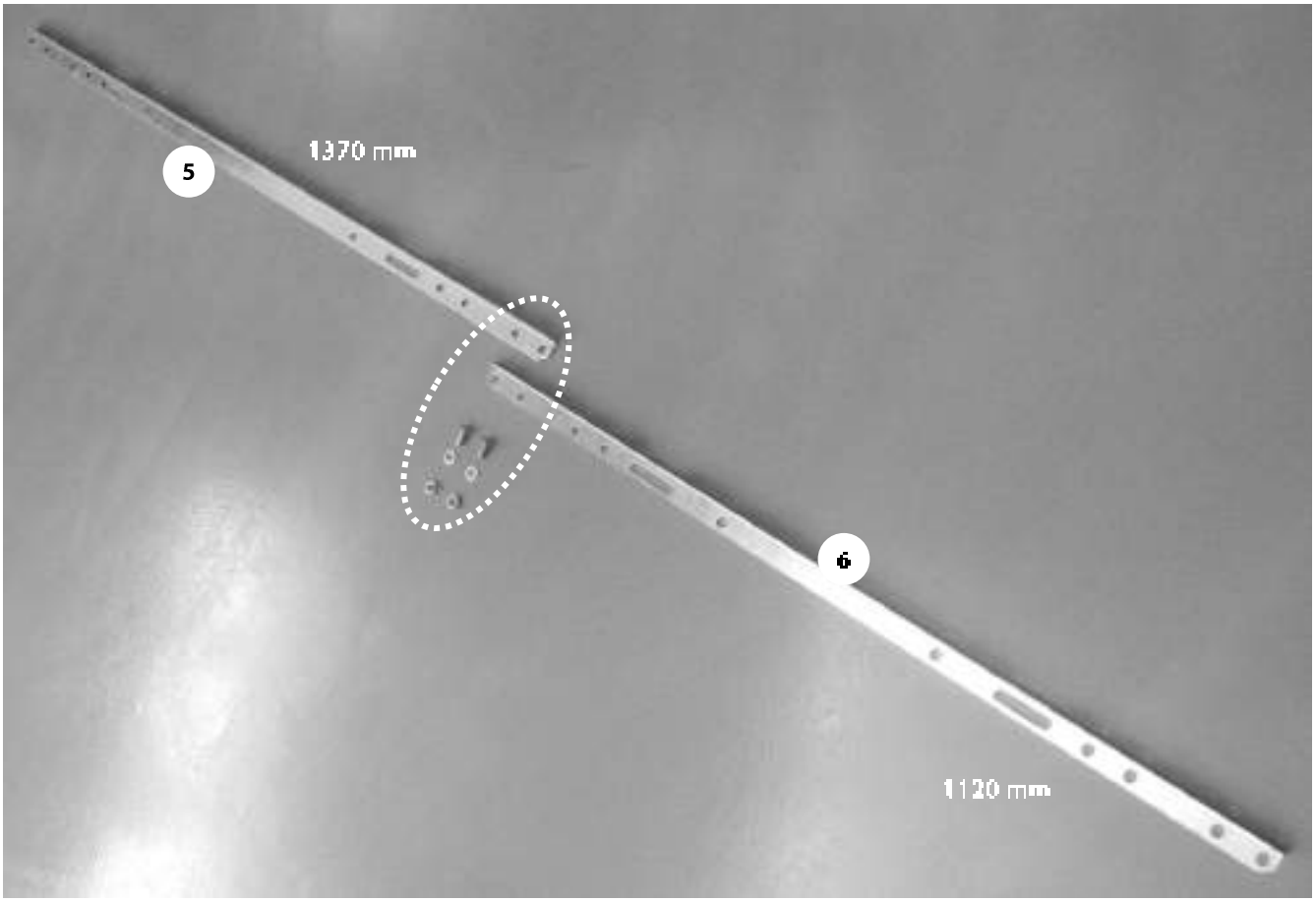
Ref.	Descripción	Cant.
5	Barra bastidor de acero galvanizado - longitud 1370 mm	2
18	Barra apoyo bastidor de acero galvanizado - longitud 970 mm	2
19	Barra en 'X' de acero galvanizado - longitud 1550 mm	2
20	Bulón M10x25	6
	Arandela M10	12
	Tuerca M10	6
	Taco para tornillo de fijación M8x50	4

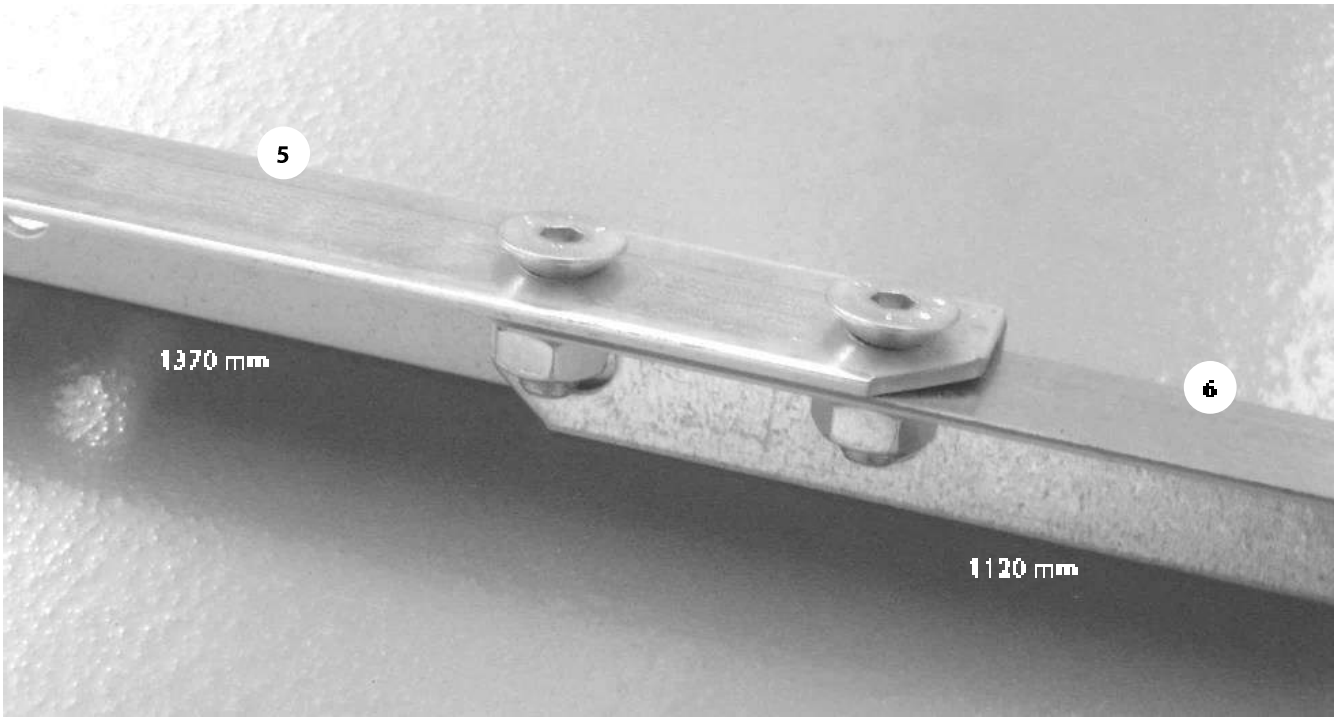
5	**18**
19	**20**

3. Montaje de la estructura

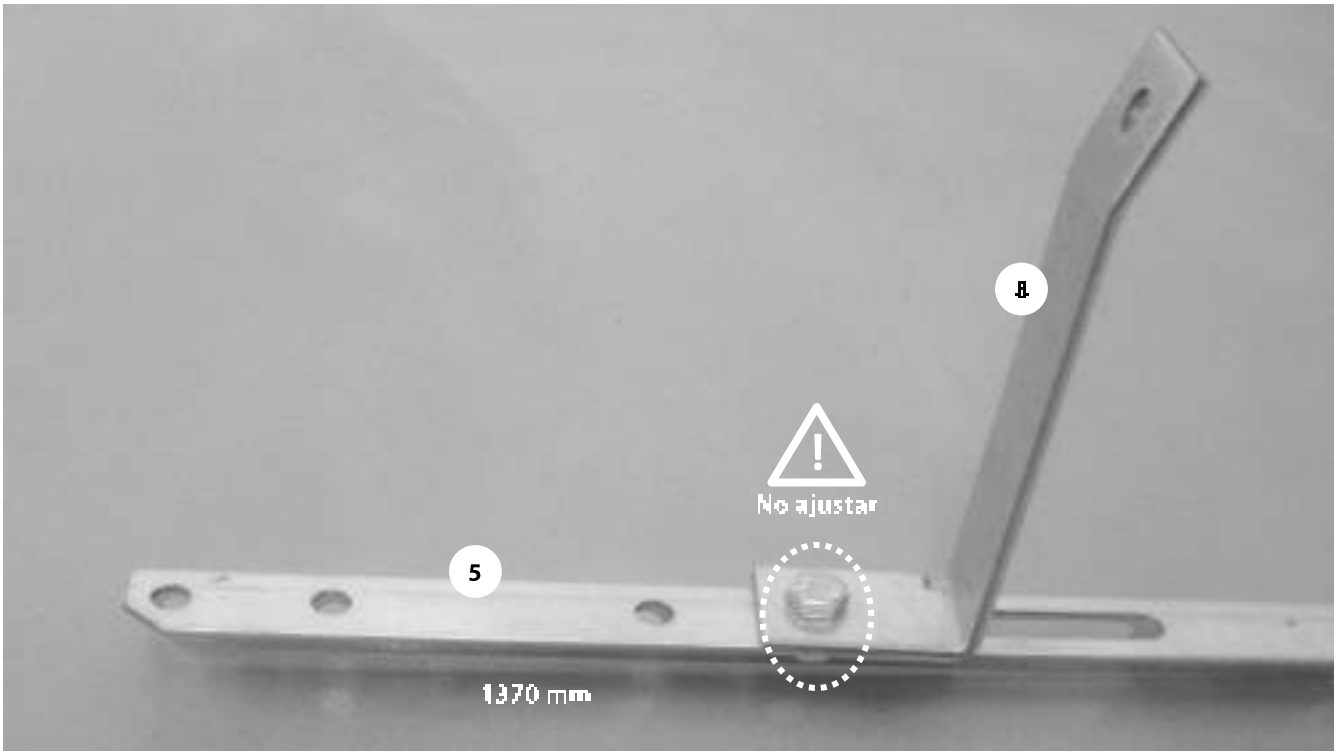
Para la instalación de la estructura de apoyo, seguir las indicaciones a continuación.
Las instrucciones de los puntos 3.1 a 3.5 muestran cómo formar la estructura de triángulo derecha.
La estructura de triángulo izquierda se forma de mismo modo, pero simétrico.

3.1 Unir una barra de longitud 1370 mm (5) con una barra de longitud 1120 mm (6) utilizando 2 bulones de cabeza avellanada, 2 tuercas y 2 arandelas.
La barra de longitud 1370 mm (5) deberá superar la barra de longitud 1120 mm (6).

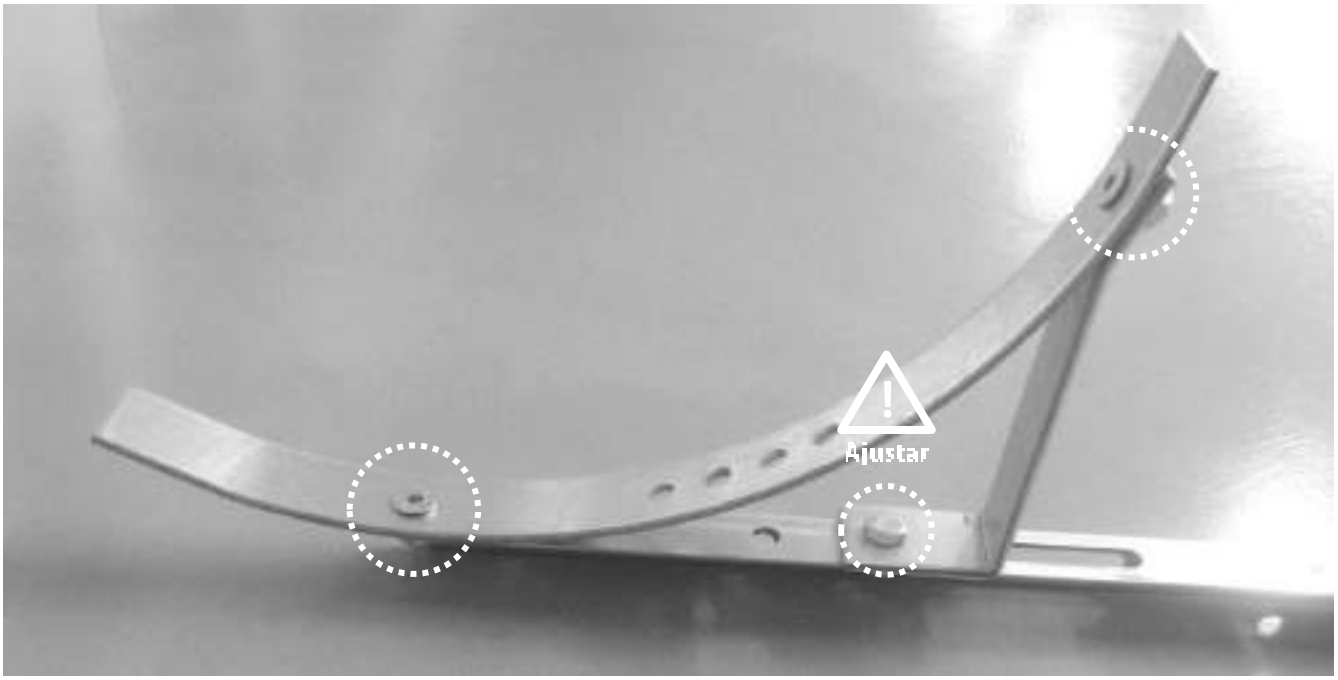




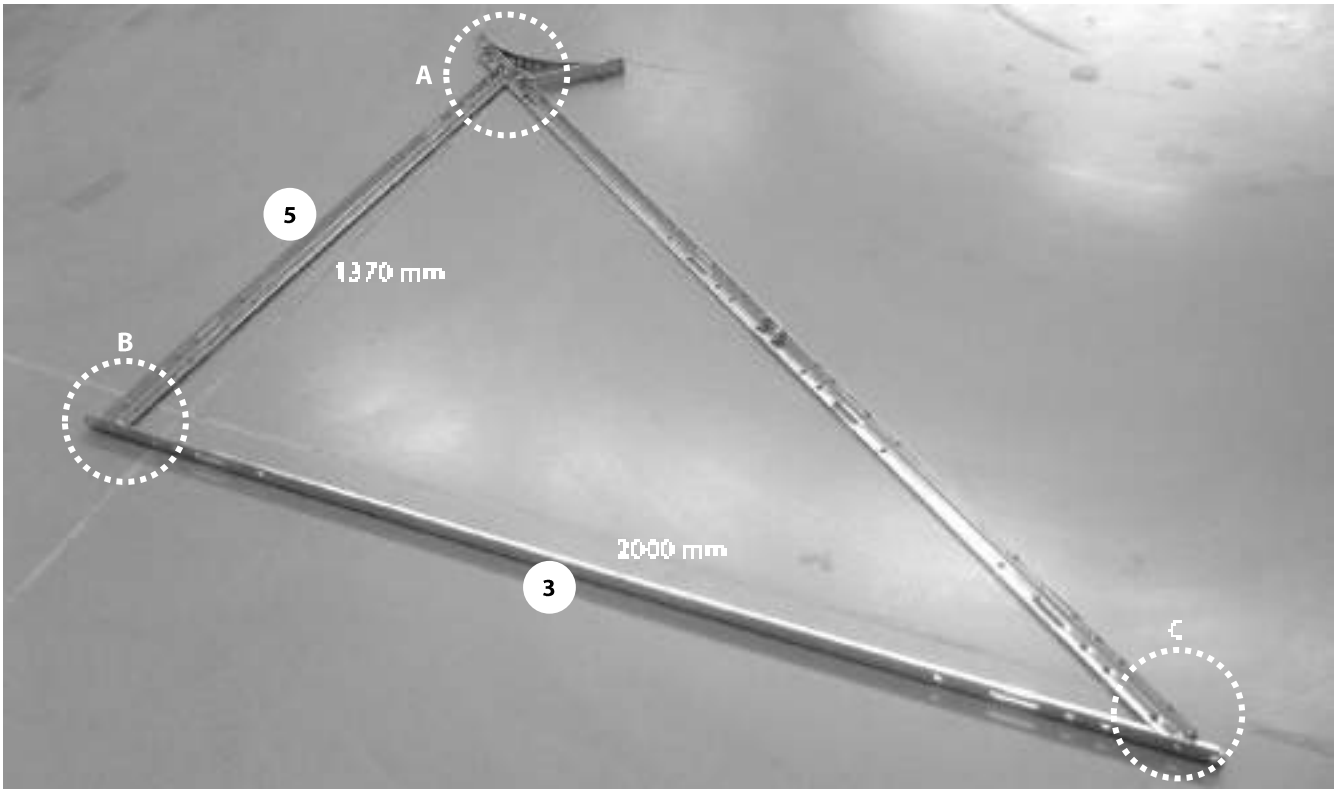
3.2 En las barras que se han montado fijar el sostén en L (8) utilizando 1 bulón, 1 tuerca y 1 arandela.
El sostén en L se deberá fijar sobre la barra de longitud 1370 mm (**5**).
ATENCIÓN: por el momento no ajustar completamente la tuerca ni el bulón.



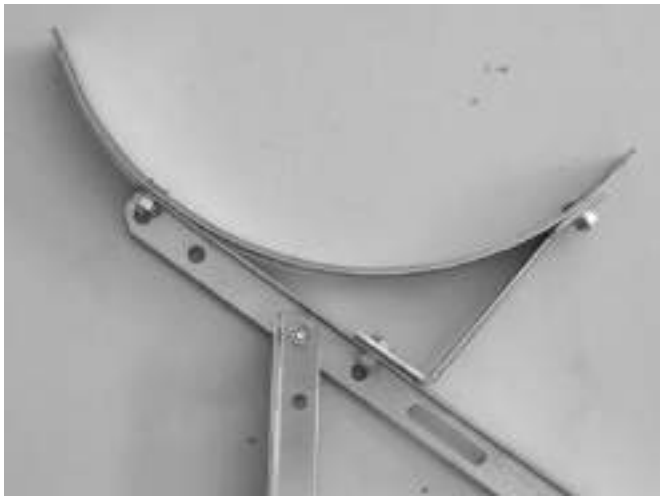
3.3 Fijar el sostén en U (7) utilizando 2 bulones de cabeza avellanada, 2 tuercas y 2 arandelas.
Una vez fijado el sostén en U (7), ajustar la tuerca y el bulón que fijan el sostén en L (8).



3.4 Añadir una barra de longitud 2000 mm (3) y una barra de longitud 1370 mm (5) formando una estructura de triángulo, con la estructura que se ha montado. Utilizar 3 bulones, 3 tuercas y 3 arandelas.



A



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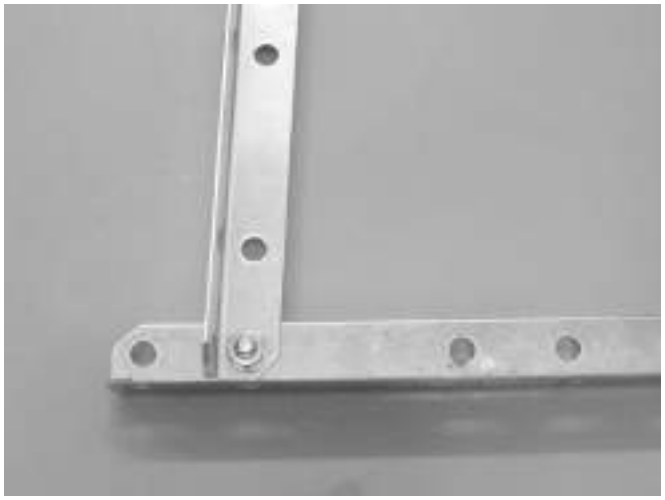
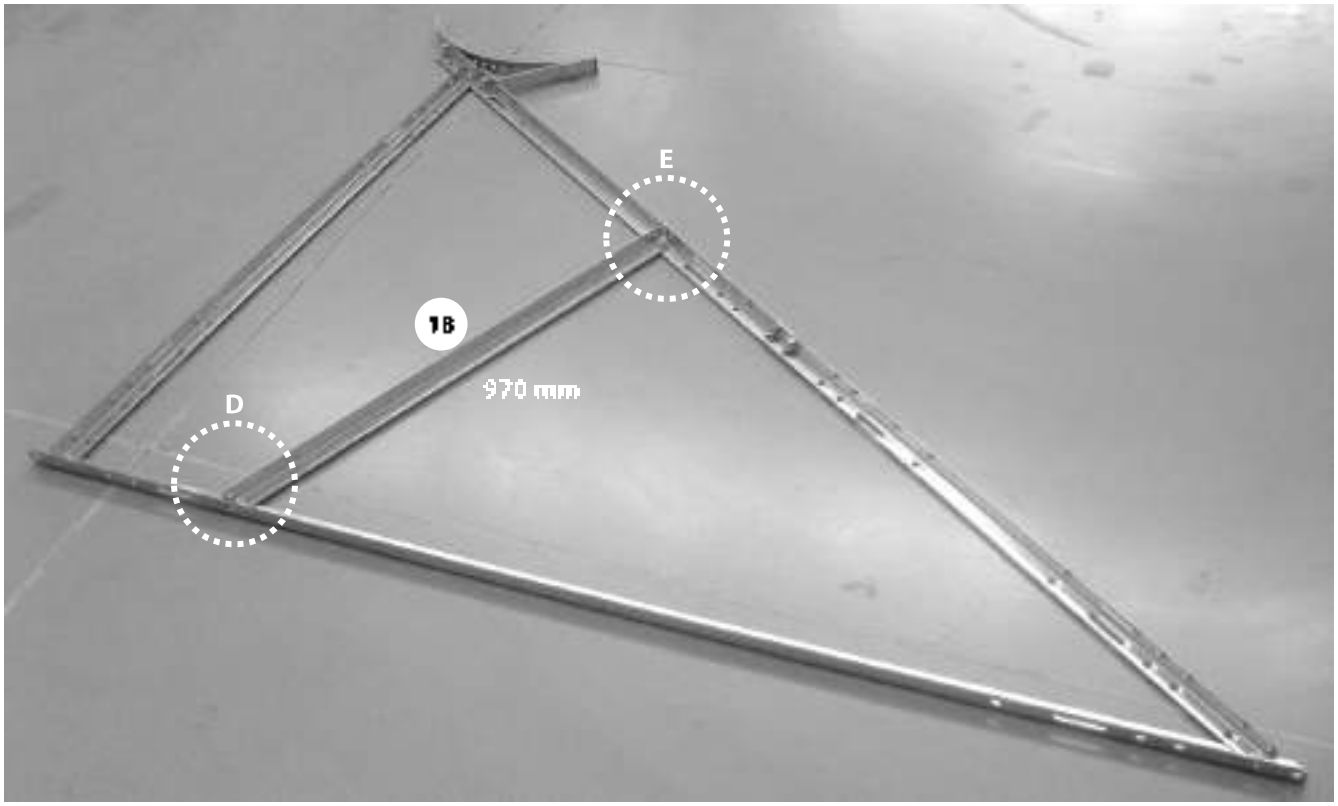


C

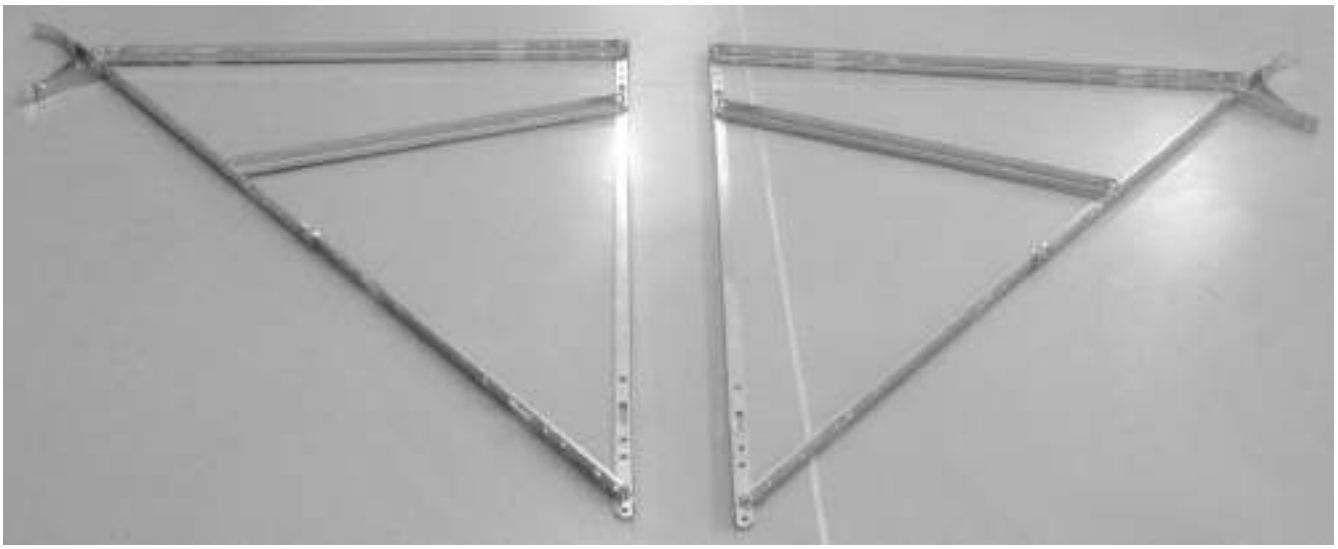
3.5 Añadir una barra de apoyo bastidor de longitud 970 mm (18) utilizando 2 tornillos, 2 tuercas y 2 arandelas



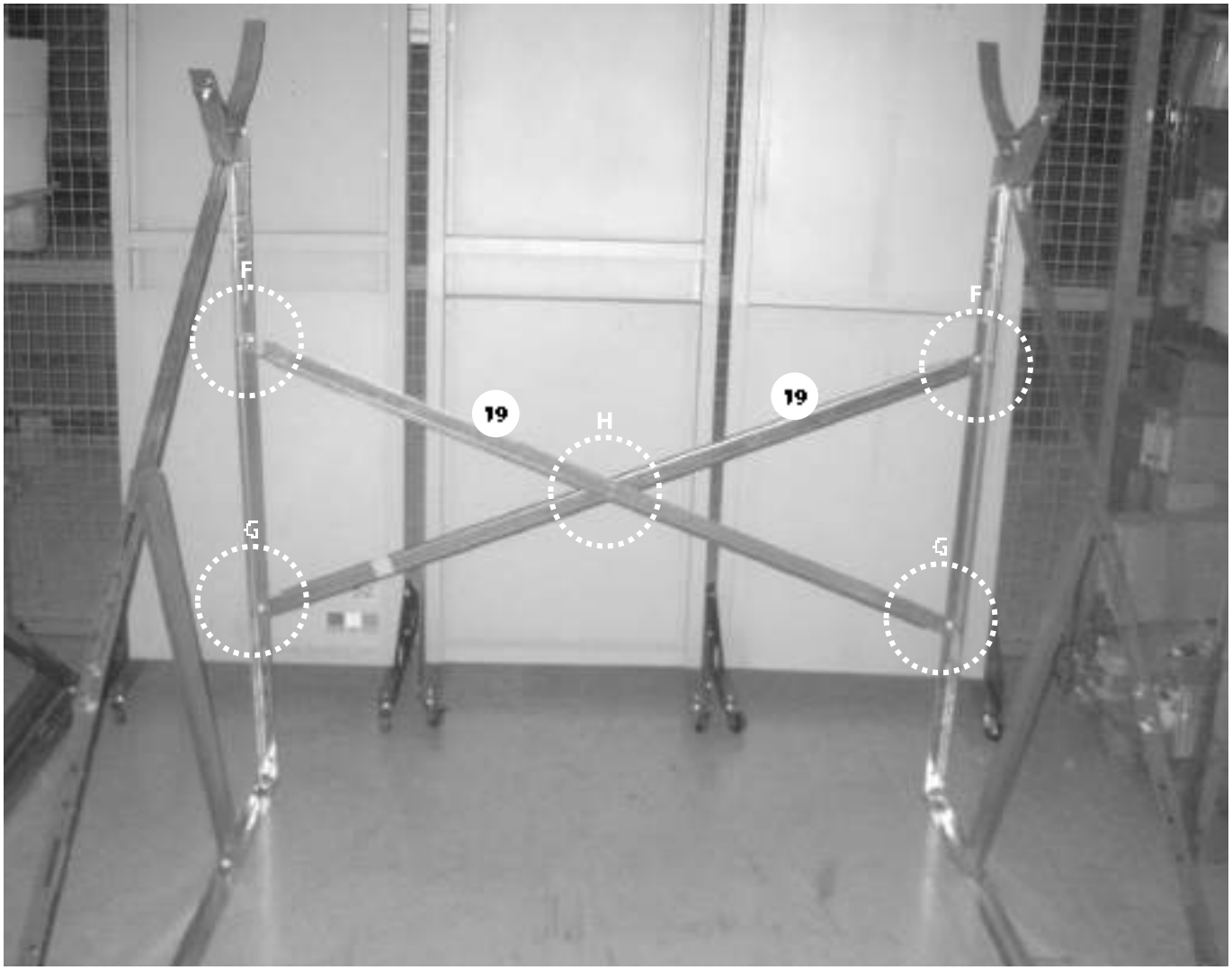
D

E

3.6 Repetir las operaciones 3.1 a 3.5 para construir otra estructura como la que se ha preparado para simétrico.



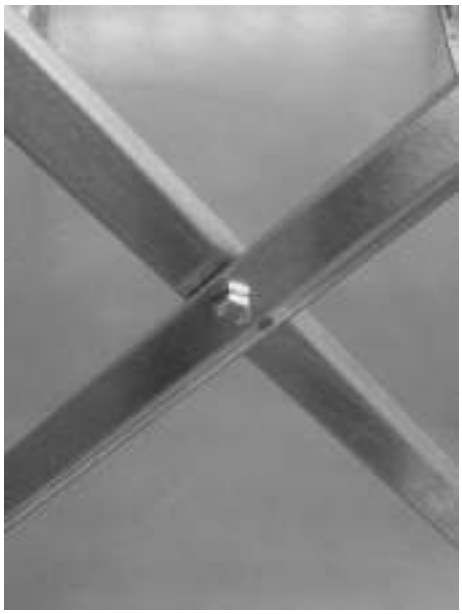
3.7 Utilizando las 2 barras en "X" de longitud 1550 mm (19) unir las 2 estructuras construidas previamente creando la estructura de apoyo de la siguiente foto. Utilizar 5 pulones, 5 tuercas y 5 arandelas



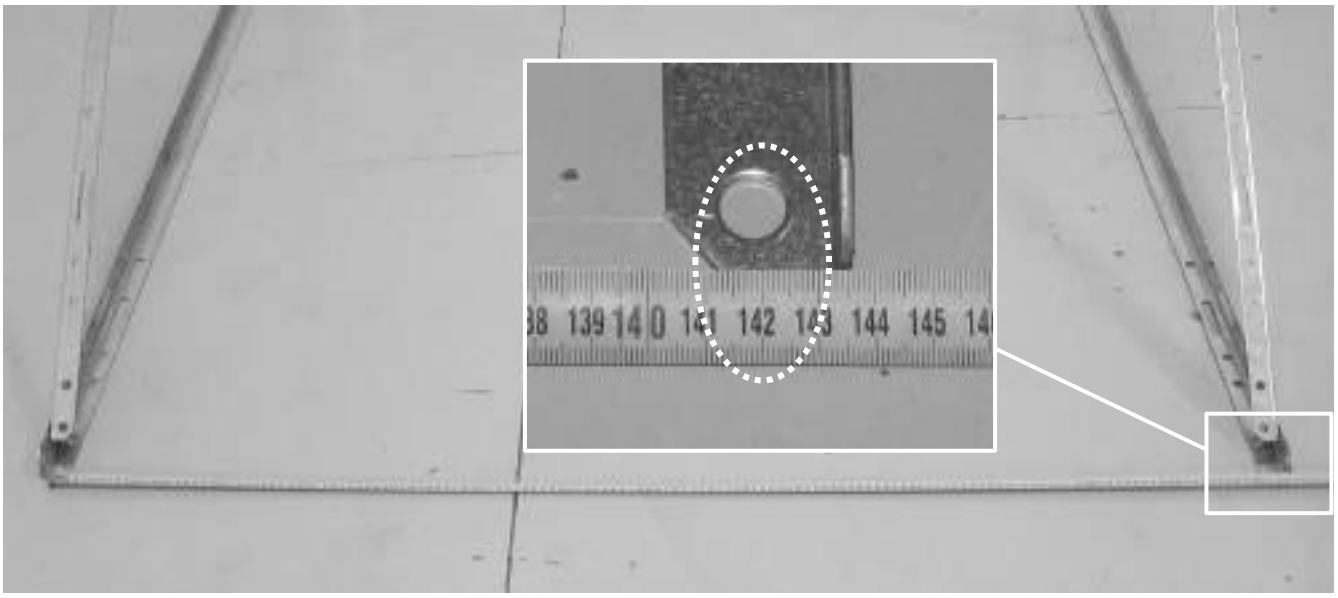
F

G

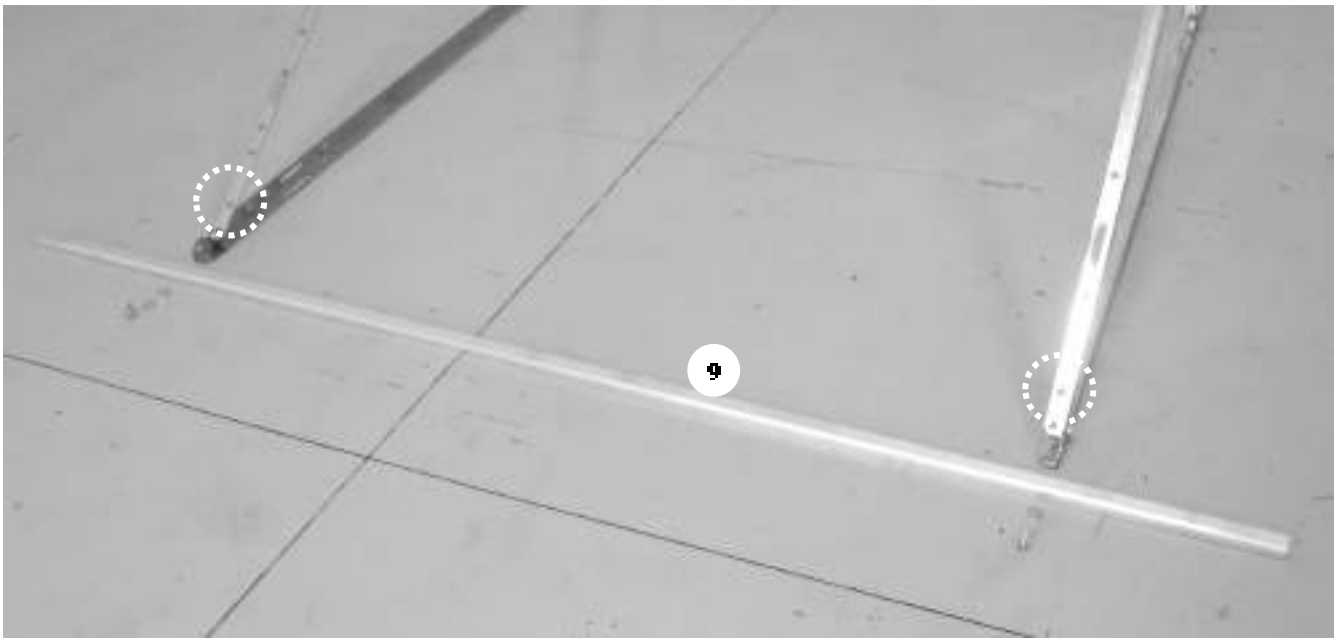
H

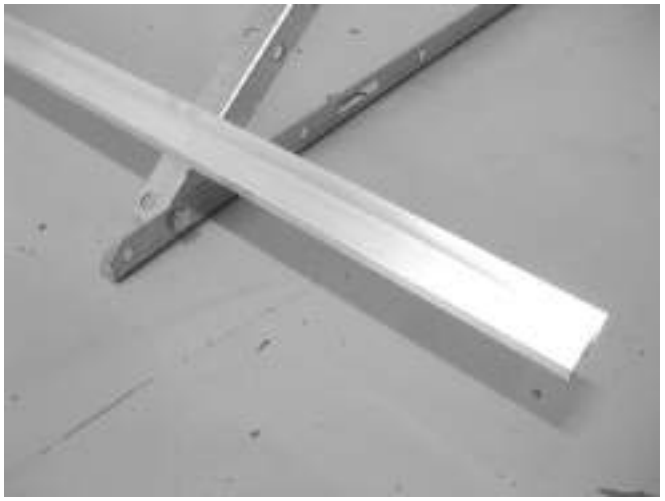


3.8 Asegurarse de que la distancia desde los centros de los orificios de las dos estructuras sea de 142 cm



3.9 Fijar una barra de fijación de color de longitud 2060 mm (9), utilizando 2 bulones, 2 tuercas y 2 arandelas, en la parte interior de la estructura

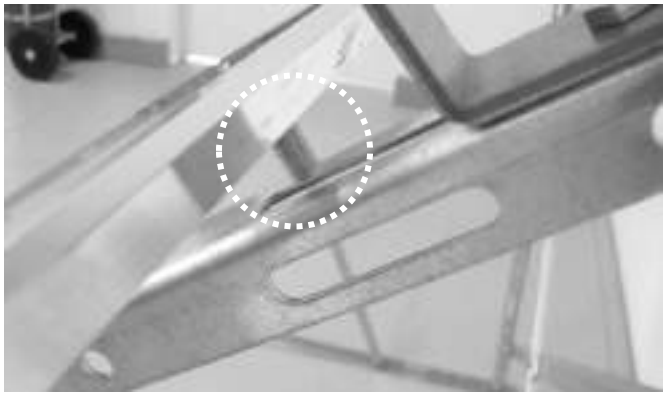


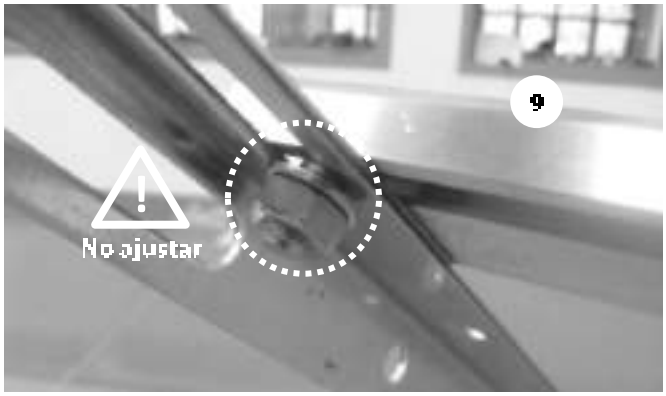


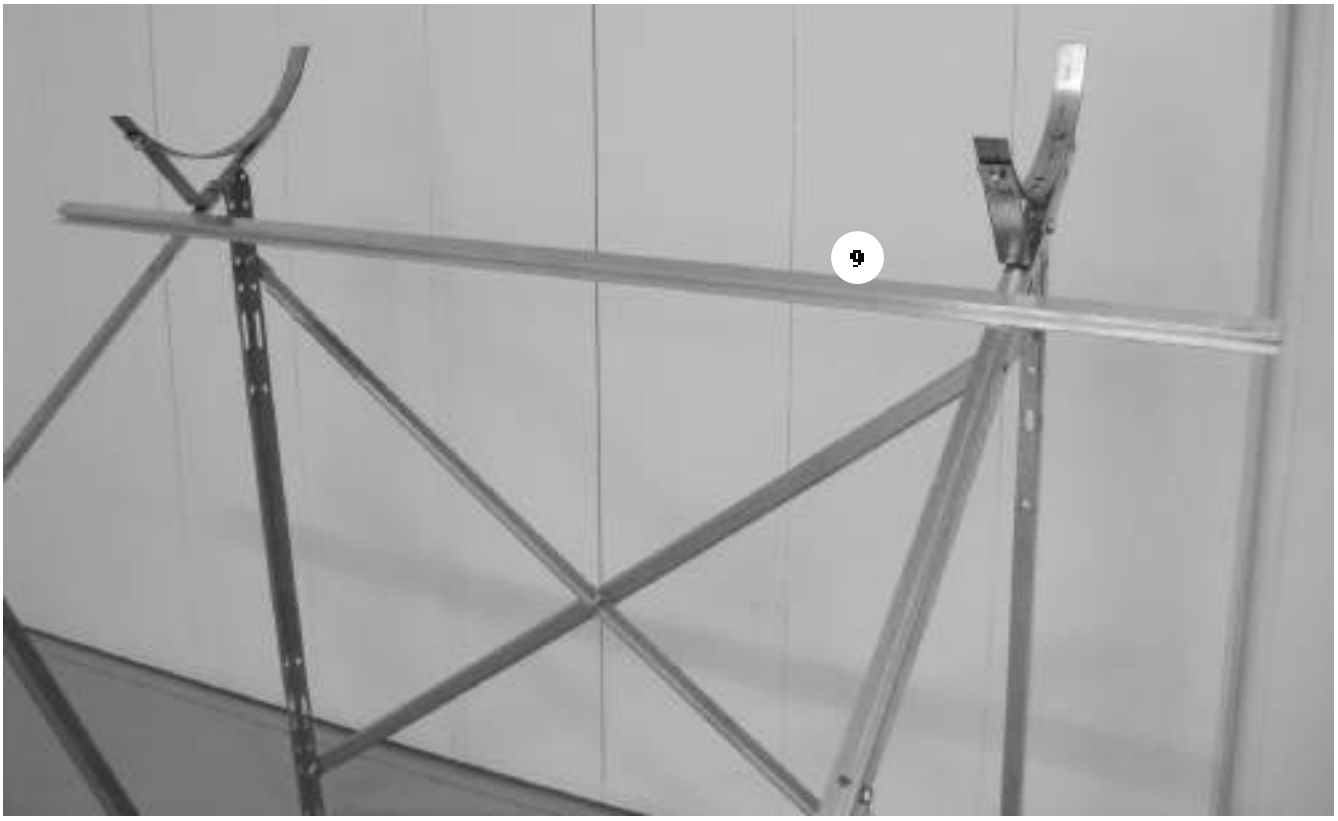
ATENCIÓN: la barra deberá sobresalir la misma longitud a la derecha y a la izquierda.

3.10 Fijar la segunda barra de fijación colector de longitud 2060 mm (9), utilizando 2 bulones, 2 tuercas y 2 arandelas, en la parte superior de la estructura

ATENCIÓN: no se deben ajustar los bulones hasta que el panel no esté introducido en la estructura.

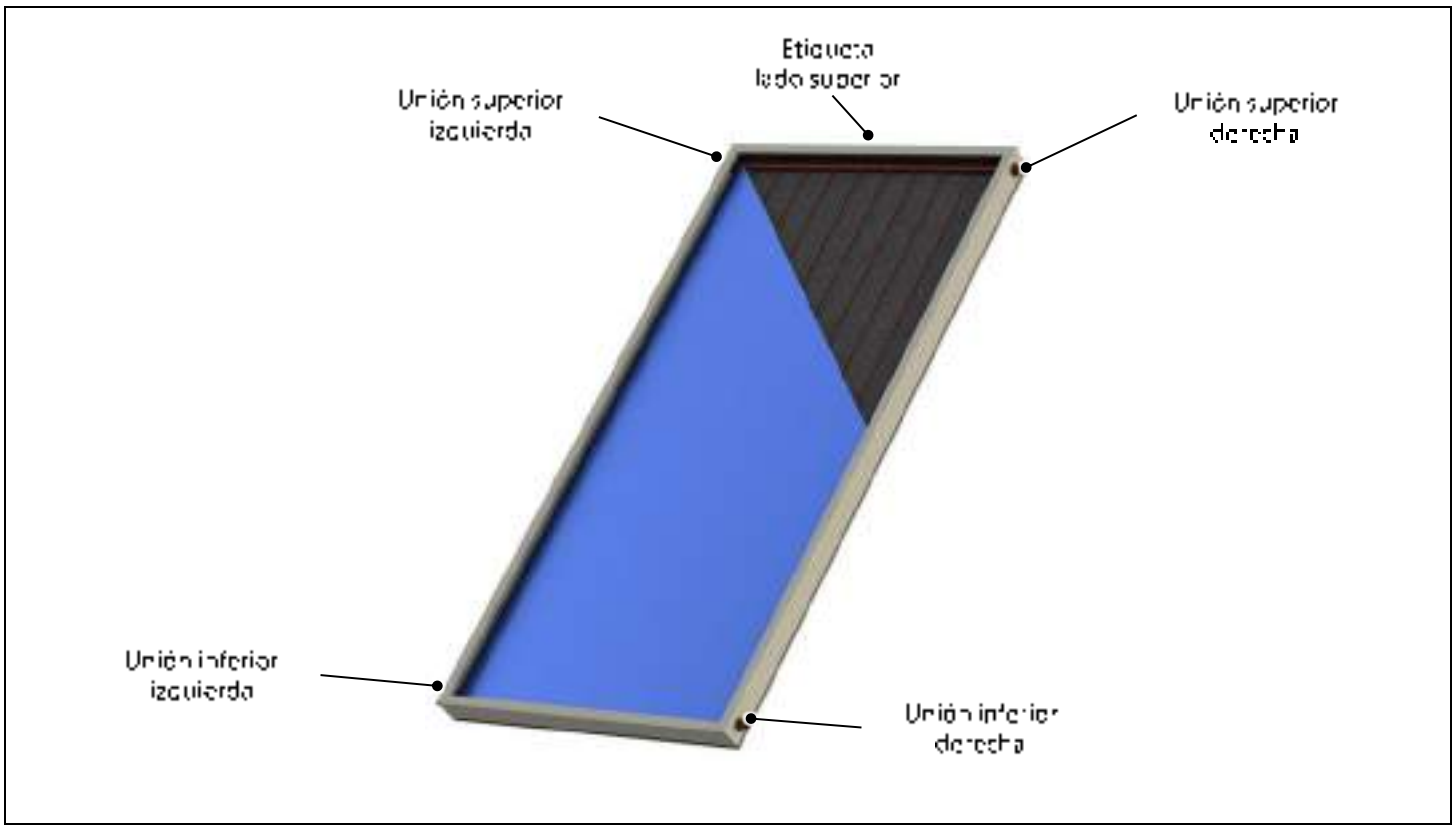






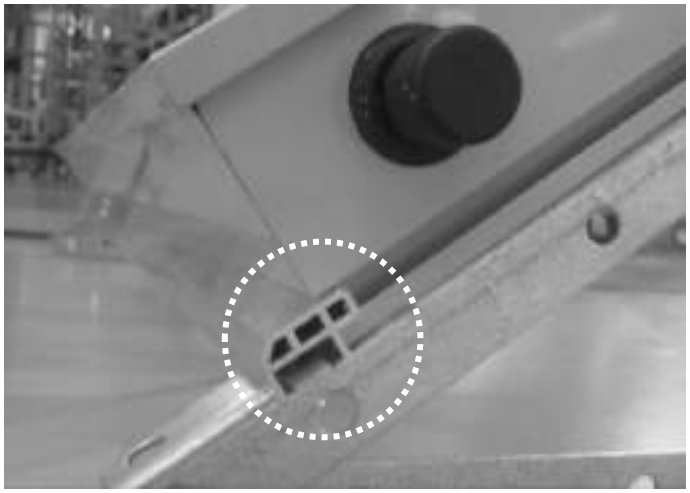
ATENCIÓN: la barra deberá sobresalir la misma longitud a la derecha y a la izquierda.

4. Instalación de los colectores solares

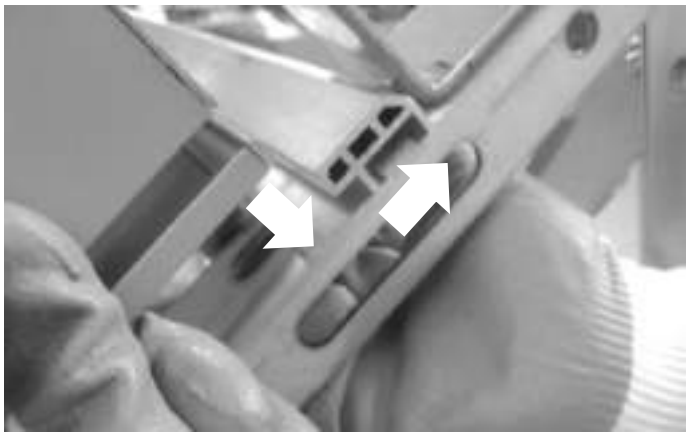


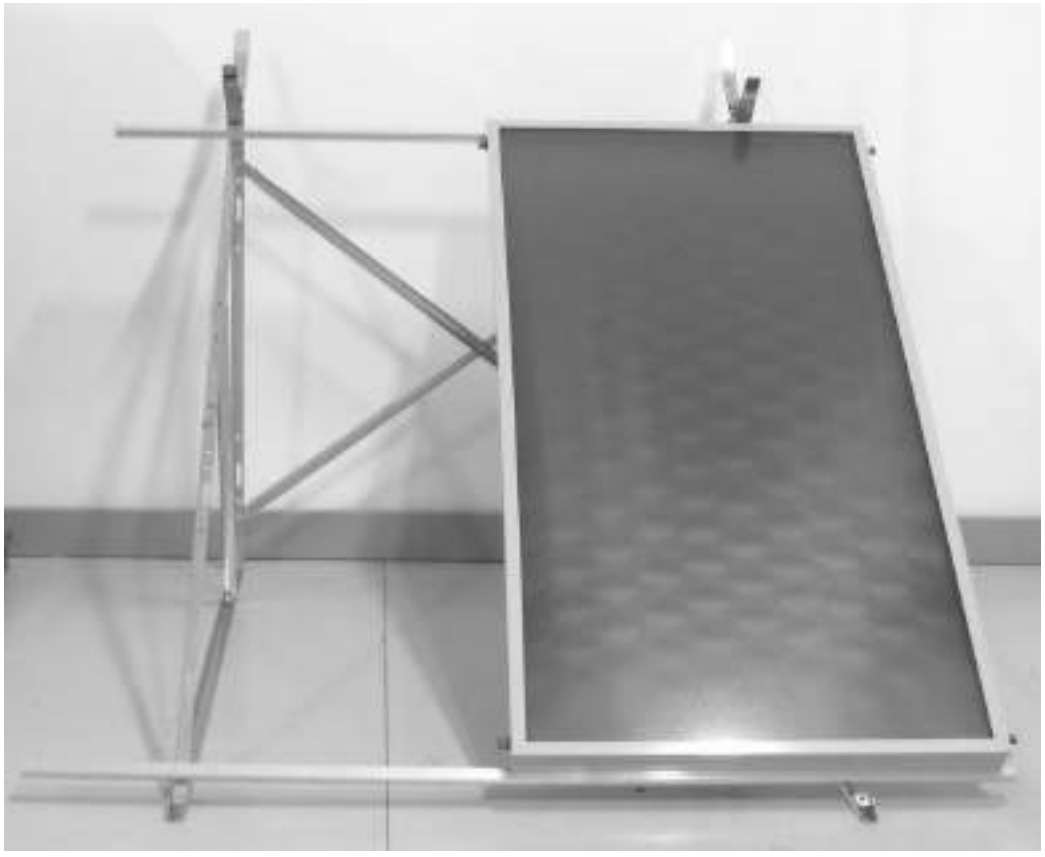
Los colectores tienen un sentido de instalación
El lado superior está indicado por una etiqueta

4.1 Introducir el primer colector solar en la parte derecha de la barra de fijación colector inferior (9) asegurándose de que se encastre como en la figura



4.2 Introducir el colector solar en la barra de fijación colector superior (9) desplazándola hacia arriba



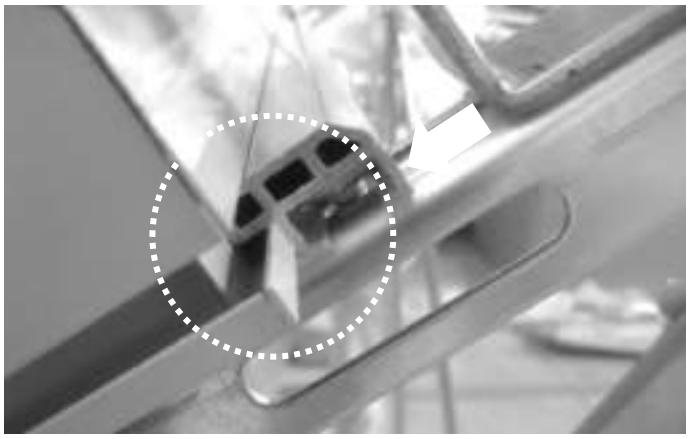


4.3 Repetir las operaciones 4.1 y 4.2 para introducir el segundo colector en la parte izquierda de la estructura

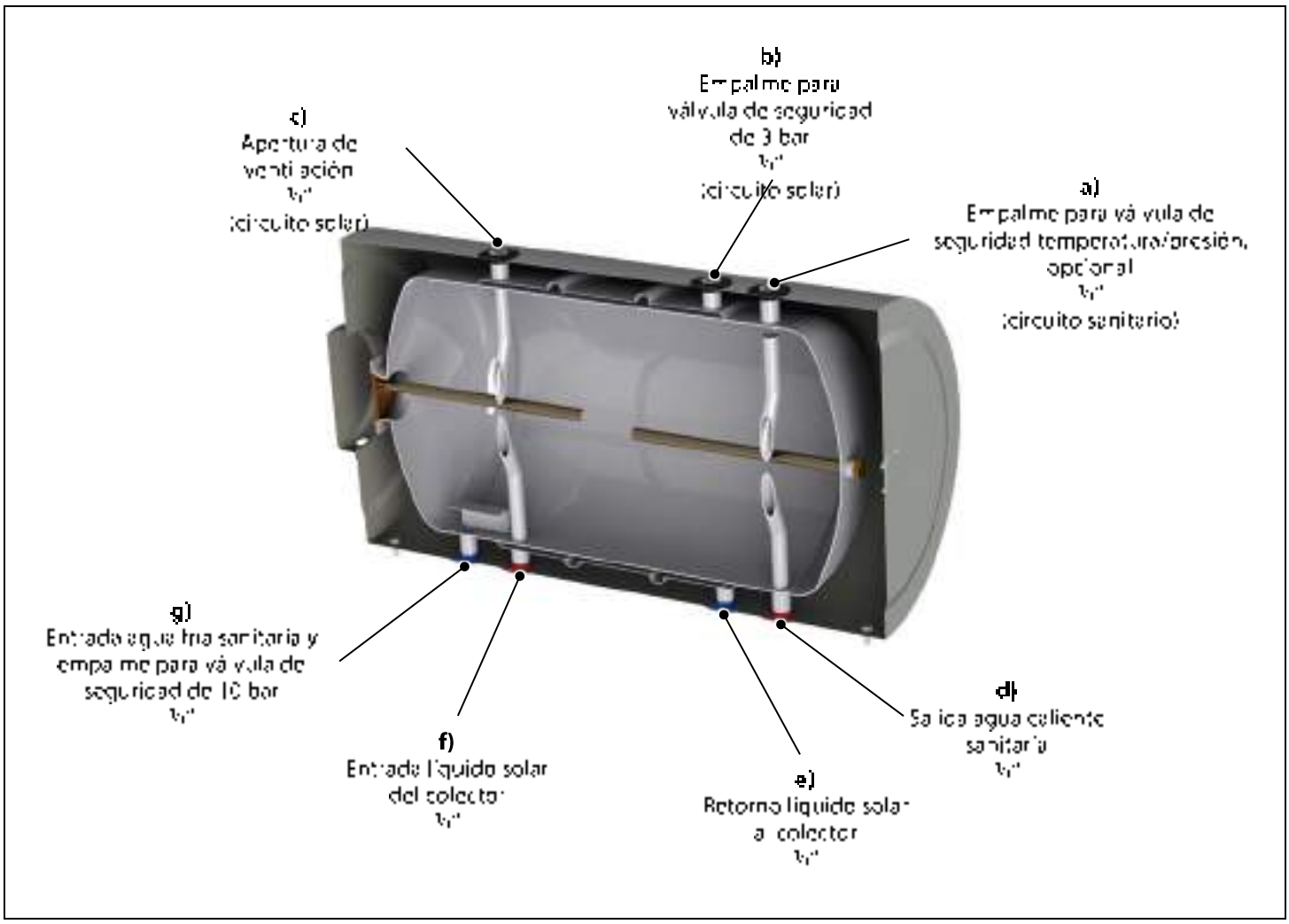
4.4 Utilizando las 2 juntas para ajustar con ojivas de Ø 22 mm x Ø 22 mm conectar los 2 colectores separados, arriba y abajo

Atención: se deben centrar los 2 colectores en la estructura.

4.5 Empujar la barra de fijación colector superior (9) hacia abajo hasta encastrarla en los colectores, luego ajustar las tuercas

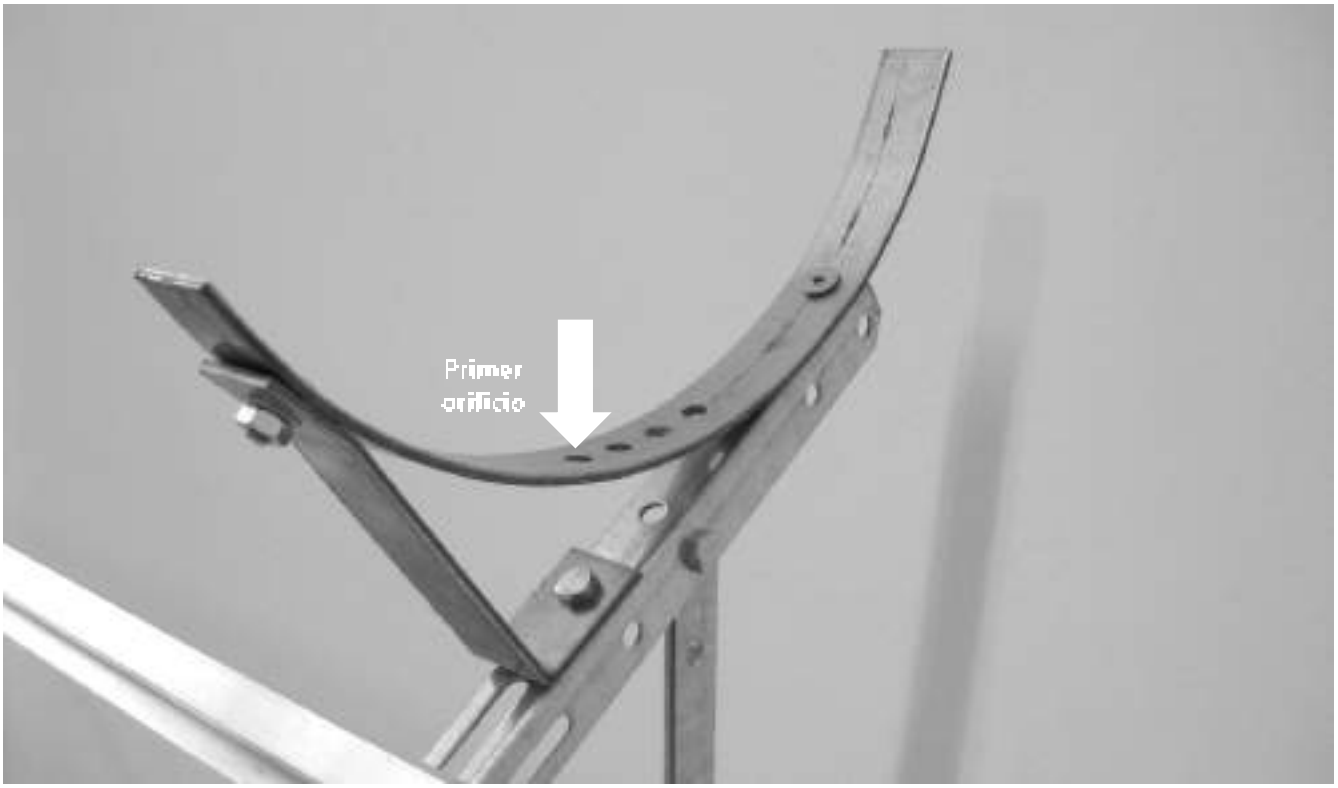


5. Instalación del hervidor y de las conexiones hidráulicas

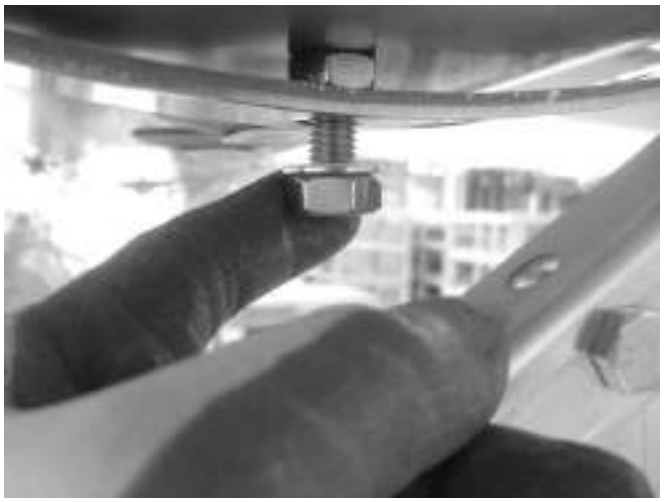


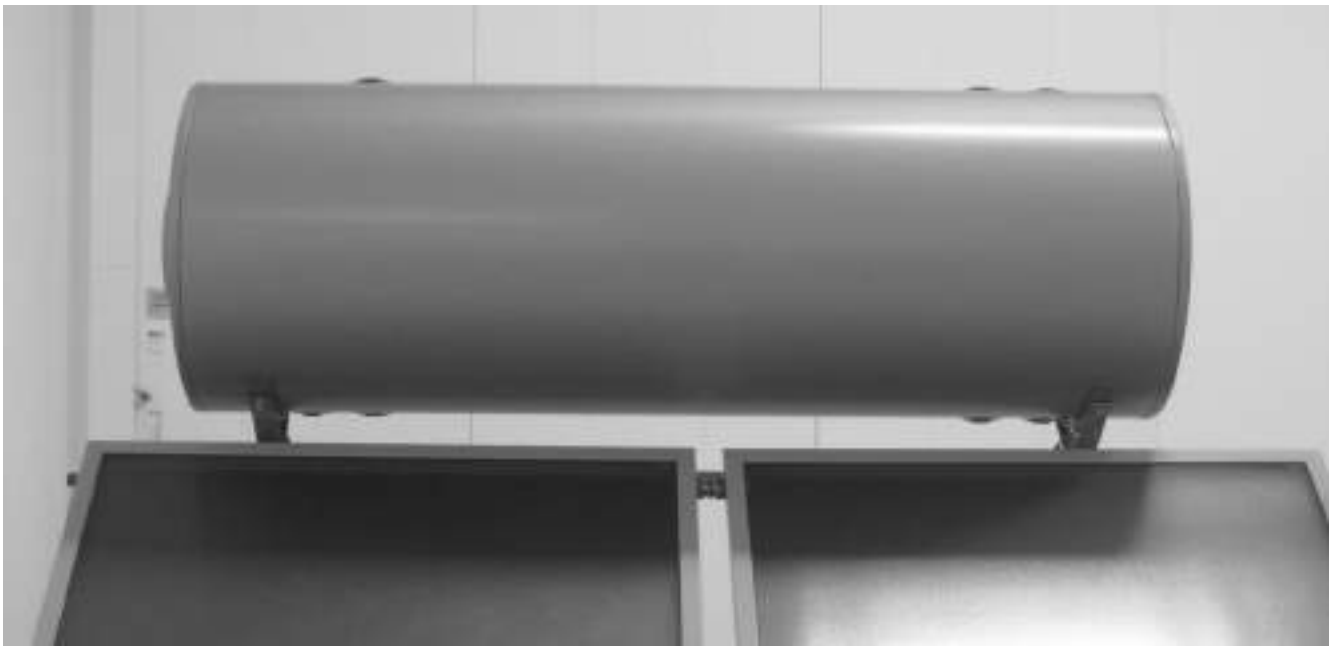
5.1 Introducir el hervidor en la estructura apoyando en los sostenes en U

El hervidor está dotado de dos aplicaciones roscadas M10 que deberán ser introducidas en los **primeros orificios** de los sostenes en U

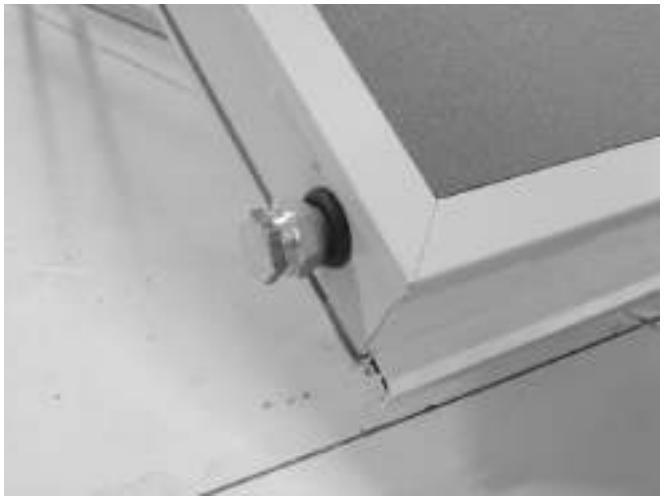


Fijar el termoacumulador utilizando 2 tuercas y 2 arandelas.

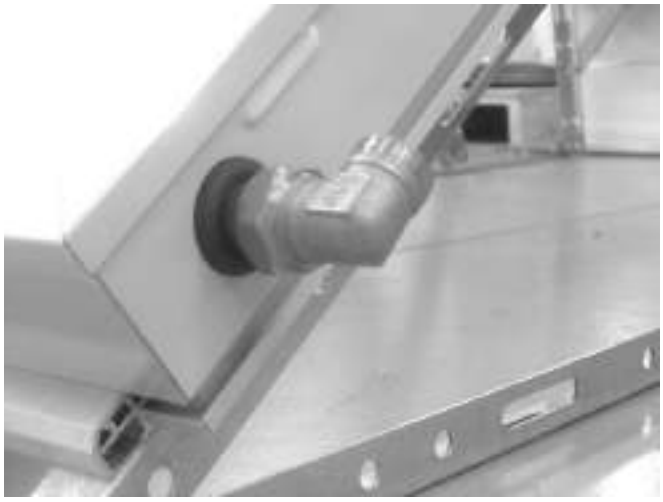




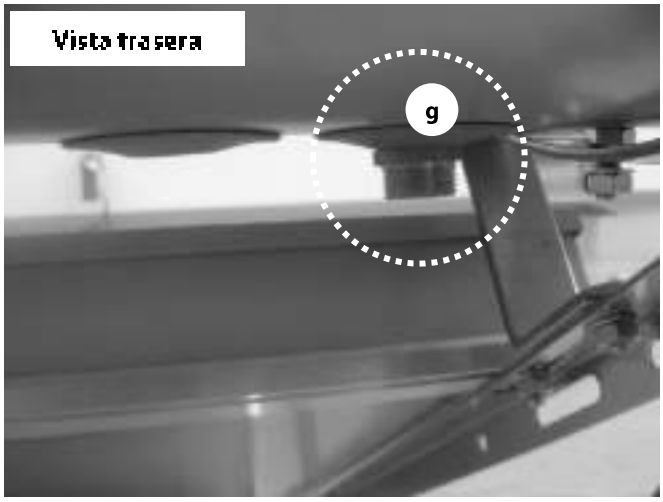
5.2 Fijar las dos tapas para ajustar de Ø 22 mm a las conexiones superiores derecha e inferior izquierda del par de colectores solares.

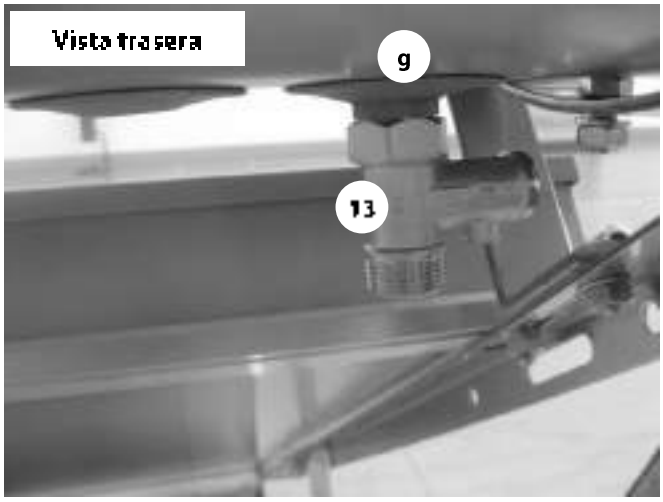


5.3 Fijar las dos curvas para ajustar de Ø 22 mm x ¾" a las conexiones superiores izquierda e interior derecha del par de colectores solares

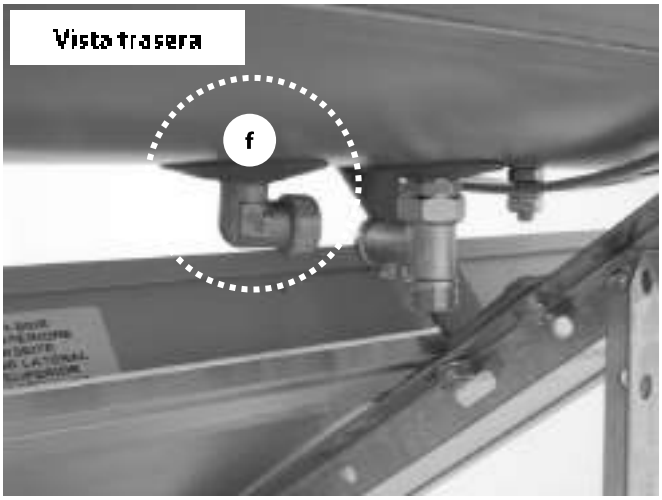


5.4 Utilizando un niple ½" M x ½" M conectar la válvula de seguridad agua sanitaria de 6 bar (13) a la entrada de agua fría sanitaria del hervidor (g).
Utilizar una cinta selladora adecuada para las altas temperaturas para el sellado de las roscas

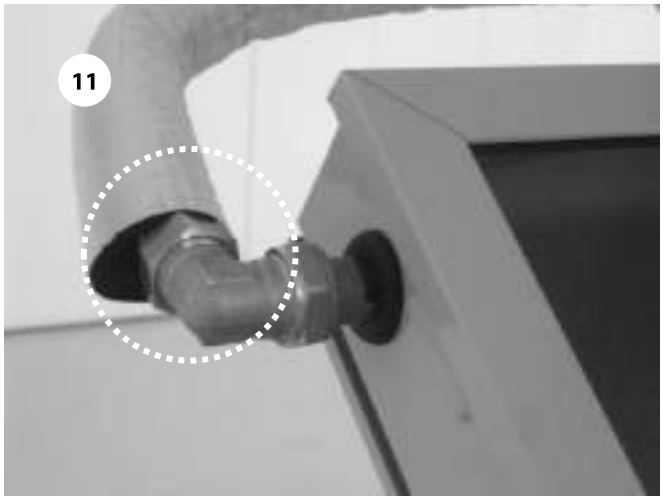


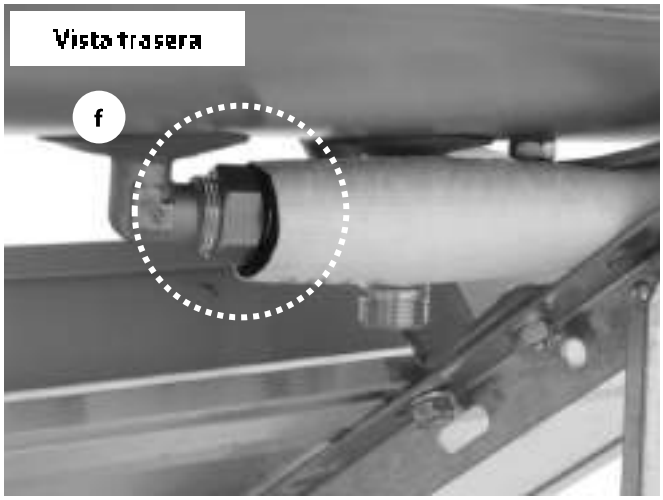


5.5 Introducir una curva ½" M x ½" M en la entrada del líquido solar del hervidor (f).
Utilizar una cinta selladora adecuada para las altas temperaturas para el sellado de las roscas



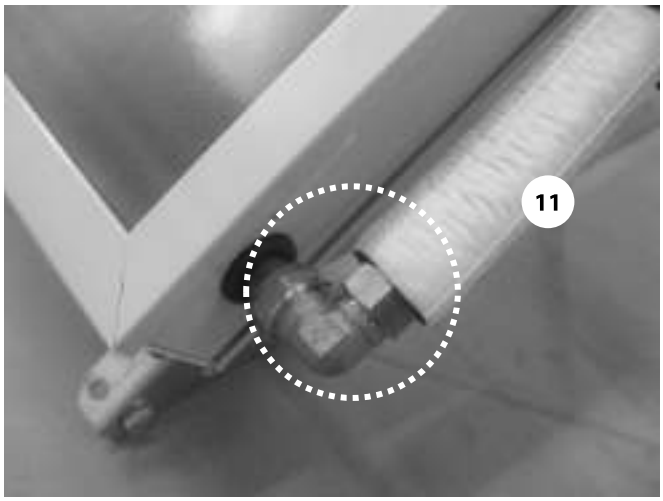
5.6 Utilizando dos juntas 1/2" conectar el tubo de acero flexible de longitud 670 mm (**11**) a la conexion superior izquierda del colector solar izquierdo y a la entrada de líquido solar del hervidor (**f**).
El tubo de acero flexible deberá tener una tendencia hacia arriba comenzando por el empalme del colector hacia el empalme del hervidor (**f**).

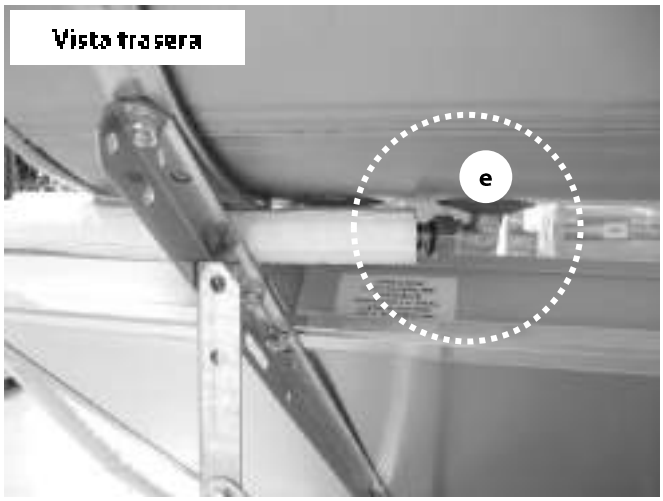




5.7 Introducir una curva 1/2" M x 1/2" M en el retorno líquido solar del hervidor (**e**).
Utilizar una cinta selladora adecuada para las altas temperaturas para el sellado de las roscas

5.8 Utilizando dos juntas 1/2" conectar el tubo de acero flexible de longitud 2620 mm (**11**) a la conexión inferior derecha del colector solar derecho y al retorno de líquido solar del hervidor (**e**).





5.9 Fijar el tubo de longitud 2620 mm (11) al colector utilizando el soster en G (12).

5.10 Ahora es posible fijar la estructura a la superficie de apoyo utilizando los 4 tornillos y los 4 tacos suministrados (16) y (20). En caso de que los tacos suministrados no fuesen necesarios o fuesen inadecuados para el tipo de superficie, usar tacos idóneos para ello.

5.11 Conectar la entrada de agua fría y la salida de agua caliente a las respectivas conexiones del acumulador (**g**) y (**d**) respectivamente.

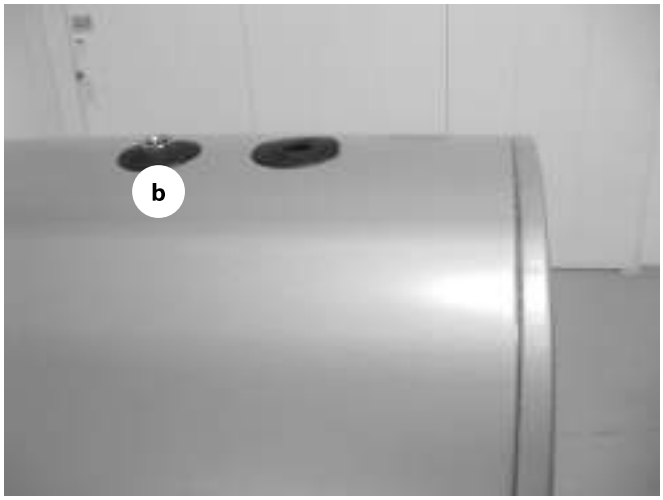
5.12 Llenar el acumulador del lado de agua sanitaria como se indica en el capítulo **Llenado del sistema** del **Manual de instalación, uso y mantenimiento.**

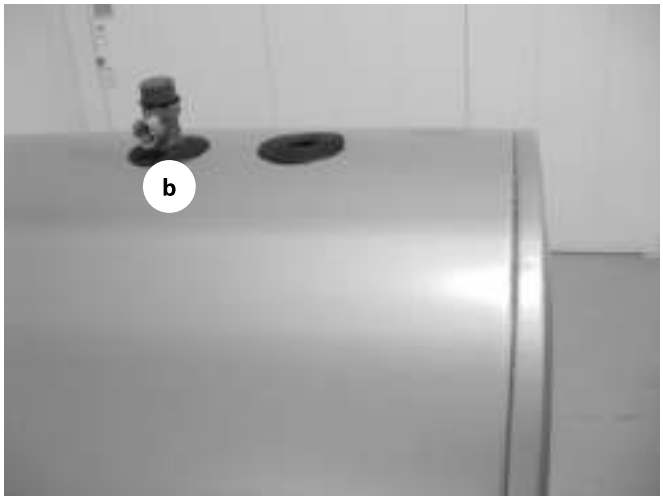
5.13 Después de llenar el acumulador, instalar una válvula de seguridad temperatura/presión (opcional, si está prevista) en la conexión correspondiente del acumulador (**a**). De lo contrario, cerrar este orificio con el tapón ½" M.
Utilizar una cinta selladora adecuada para las altas temperaturas para el sellado de las roscas.

5.14 Después de haber mezclado el glicol de propileno llenar el circuito solar como se indica en el capítulo **Llenado del sistema** del **Manual de instalación, uso y mantenimiento.**

5.15 Después de llenar el circuito, instalar la válvula de seguridad de 3 bar en la conexión correspondiente del acumulador (**b**) utilizando la reducción ½" M x ½" H.
Utilizar una cinta selladora adecuada para las altas temperaturas para el sellado de las roscas.

5.16 Instalar el tapón ½" M en el empalme (**c**).
Utilizar una cinta selladora adecuada para las altas temperaturas para el sellado de las roscas.





EN

Sulpack Natural Plus 300

Instructions for installation on a flat surface

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Contents

1. Package contents for the SUPPACK NATURAL PLUS 300 (PSPACTFR08) 51
2. Contents of the flat surface installation kit (PSKITPACO2) 54
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For the product's installation, please also refer to the product's accompanying installation, use and maintenance manual. Please note that all operations such as installation, commissioning and maintenance must be carried out by qualified technical personnel who meet the legal requirements.

1. Package contents for the SULPACK NATURAL PLUS 300 (PSPACTER08)

The packaging contains the following material:

Ref.	Description	Qty
1	Flat glazed solar collector	2
2	Vitrified steel boiler	1
3	Galvanised steel frame bar - length 2000 mm	2
4	Galvanised steel frame bar - length 1440 mm	2
5	Galvanised steel frame bar - length 1370 mm	2
6	Galvanised steel frame bar - length 1120 mm	2
7	Boiler support U-bracket	2
8	Boiler support L-bracket	2
9	Aluminium collector fastening bar - length 2060 mm	2
10	Perforated steel strip - length 750 mm	4
11	Flexible steel pipe - length 670 mm	1
	Flexible steel pipe - length 2620 mm	1
12	O-bracket for flexible pipe fastening	1
13	DHW safety valve - 6 bar	1
14	Solar circuit safety valve - 3 bar	1
15	Elbow ½" M x ½" M	2
	Compression elbow coupling with ogive Ø 22 mm x ½" M	2
	Compression cap with ogive Ø 22 mm	2
	Compression coupling with ogive Ø 22 mm x Ø 22 mm	2
	Cap ½" M	2
	Nipple ½" M x ½" M	1
	Adapter ½" M x ½" F	1
	Gasket ½"	5
16	Bolt M10x25	19
	M10 washer	29
	Nut M10	27
	Hex socket countersunk bolt M10x20	9
	Fastening screw M8x50	4
	Anchor for fastening screw M8x50	4
17	5-litre jug of solar liquid	1

1	2
3	4
5	6
7	8

9	10
11	12
13	14
15	16
17	

2. Contents of the flat surface installation kit (PSKITPAC02)

The kit's packaging contains the following material:

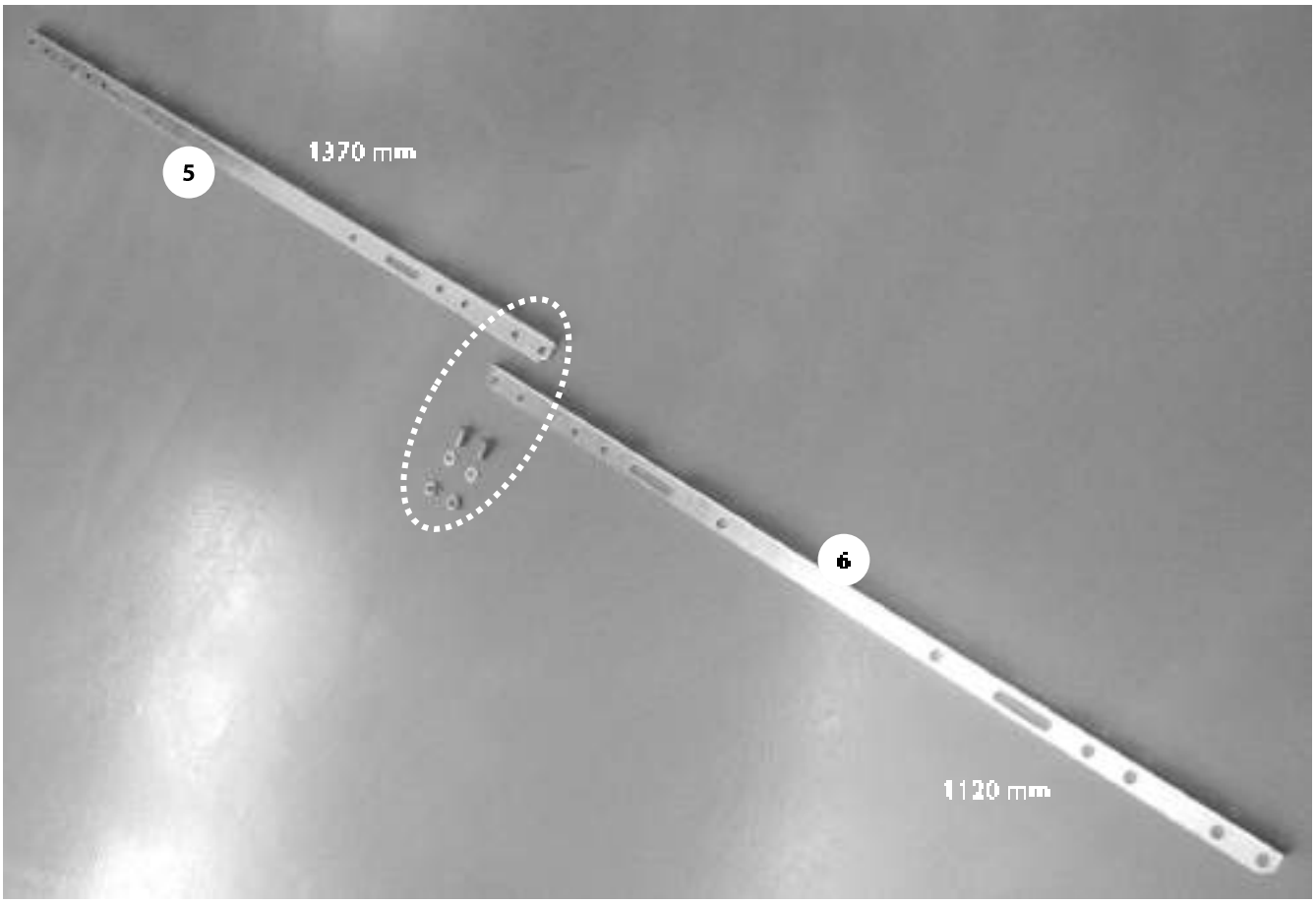
Ref.	Description	Q.ty
5	Galvanised steel frame bar - length 1370 mm	2
18	Galvanised steel frame support bar - length 970 mm	2
19	X-shaped galvanised steel bar - length 1550 mm	2
20	Bolt M10x25	6
	M10 washer	12
	Nut M10	5
	Anchor for fastening screw M8x50	4

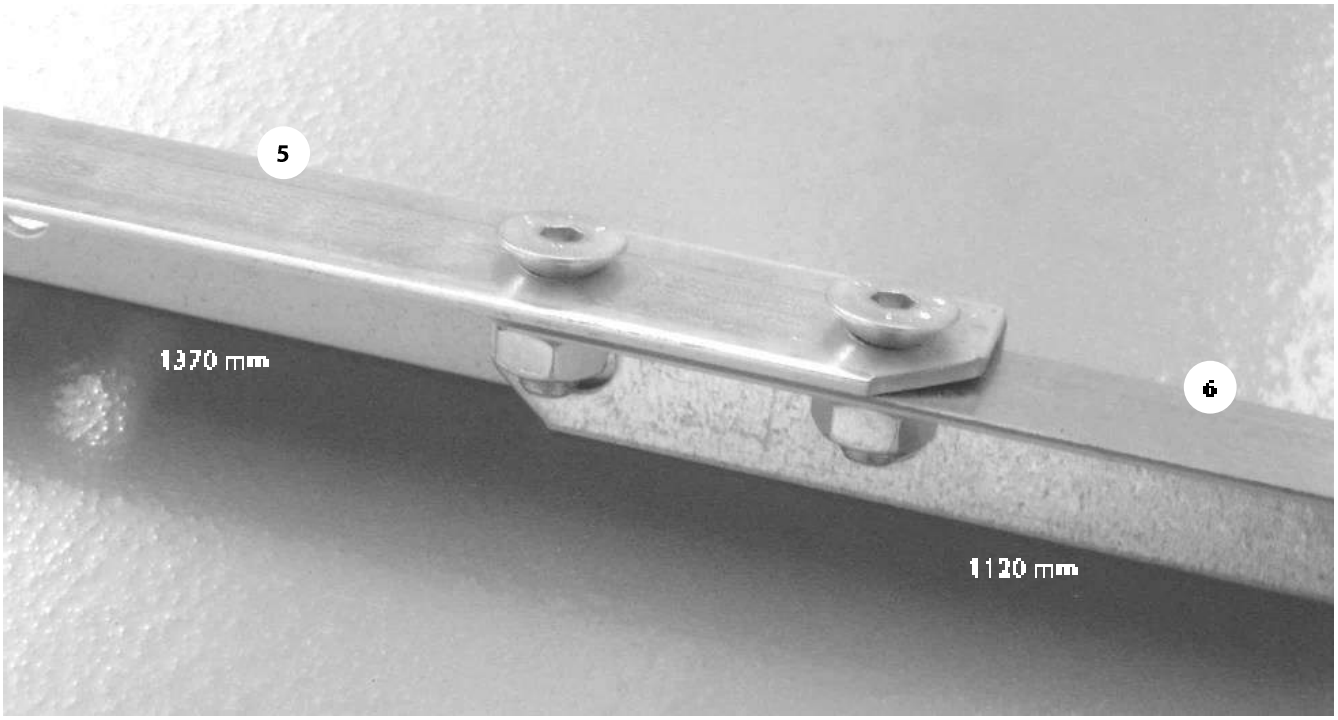
5	18
19	**20**

3. Structure assembly

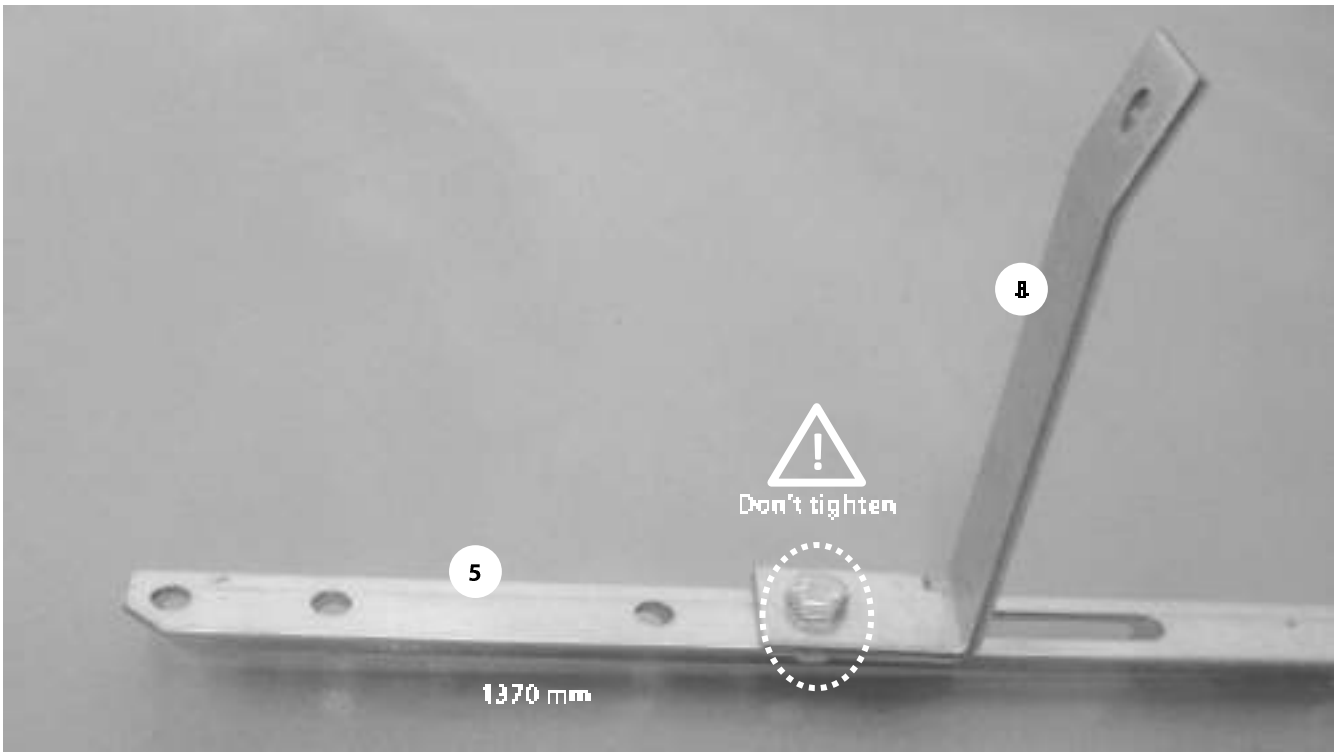
For the support structure's installation, follow the instructions below.
Points 3.1 through 3.5 in the instructions show how to form the right triangle structure.
The left triangle structure is formed the same way, but symmetrical.

3.1 Couple a 1370 mm long bar (5) with a 1120 mm long bar (6) using 2 countersunk bolts, 2 nuts and 2 washers.
The 1370 mm long bar (5) should overlap the 1120 mm long bar (6).

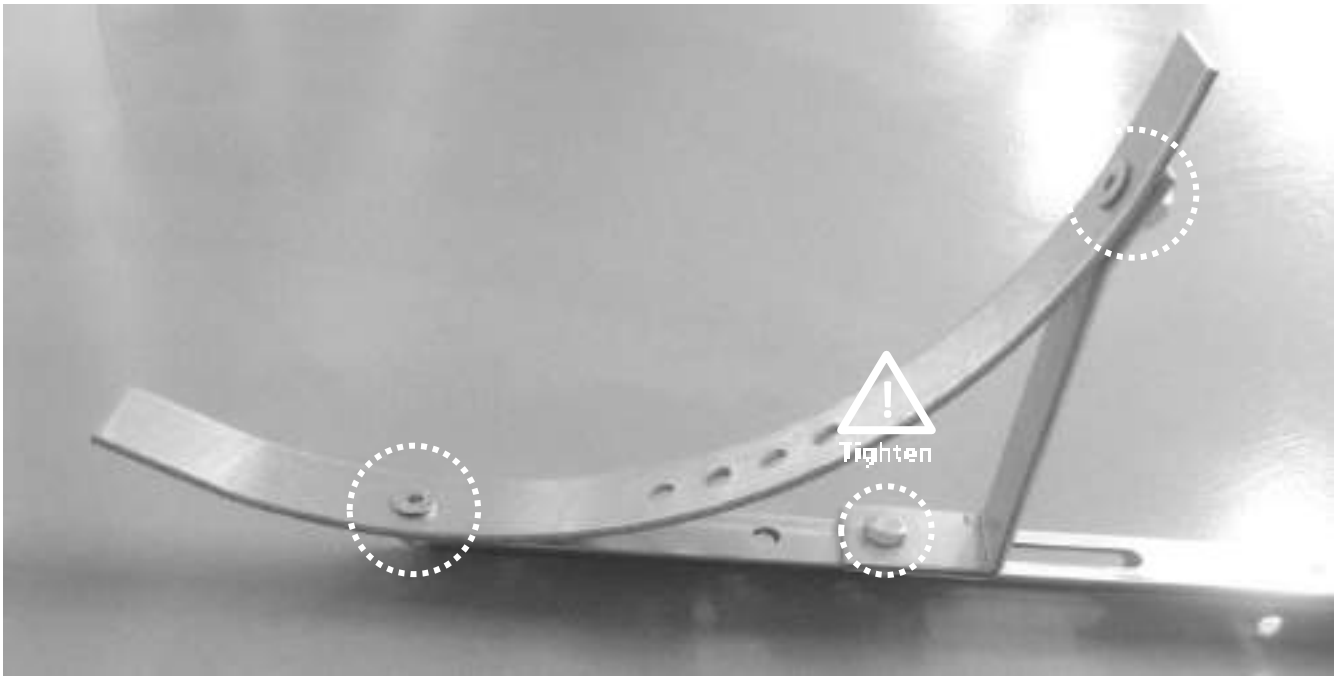




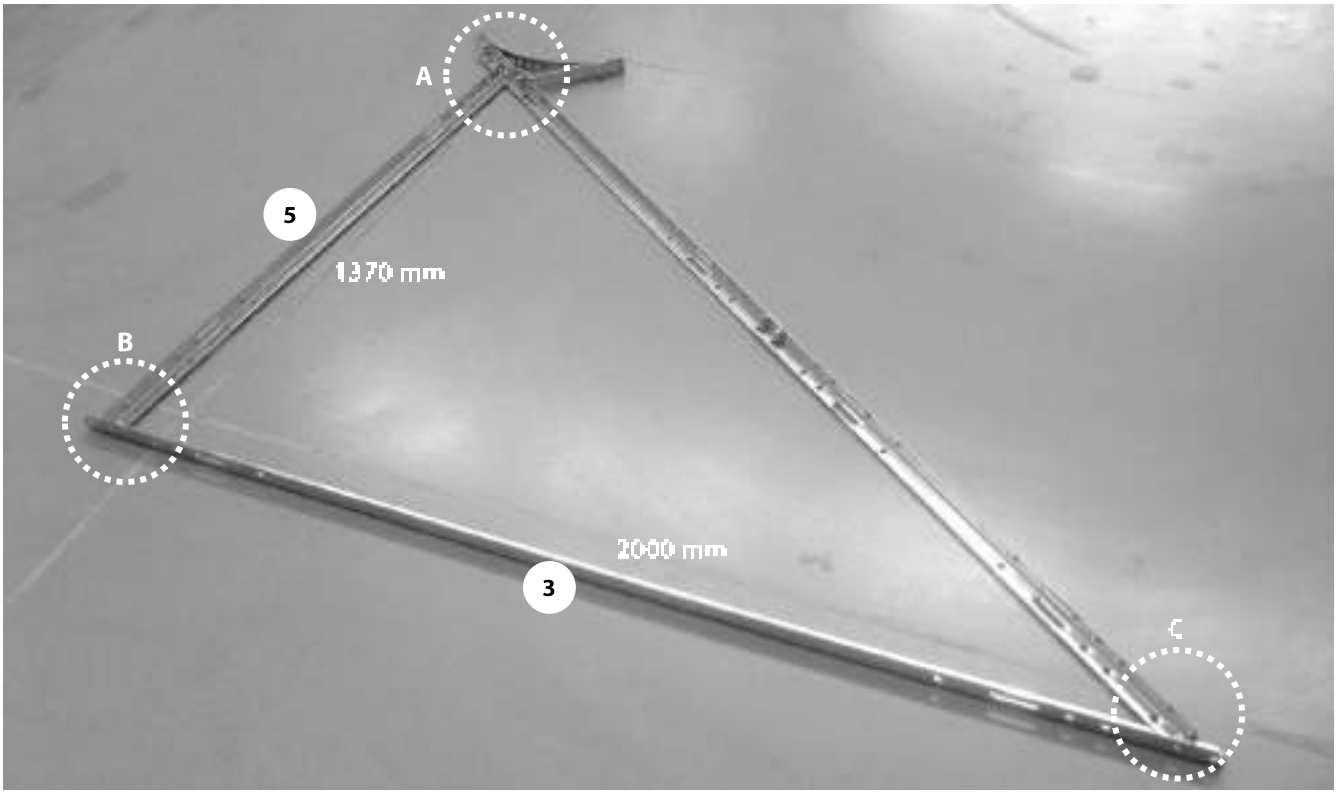
3.2 Fasten the L-bracket (8) to the bar just assembled using 1 bolt, 1 nut and 1 washer.
The L-bracket must be fastened to the 1370 mm long bar (5).
WARNING: don't tighten the nut and bolt completely for the time being.



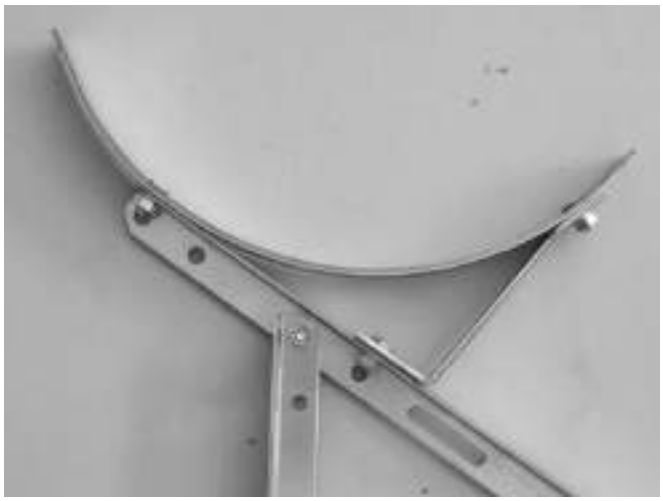
3.3 Fasten the U-bracket (7) using 2 countersunk bolts, 2 nuts and 2 washers.
Once the U-bracket (7) has been fastened, tighten the nut and bolt holding the L-bracket in place (8).



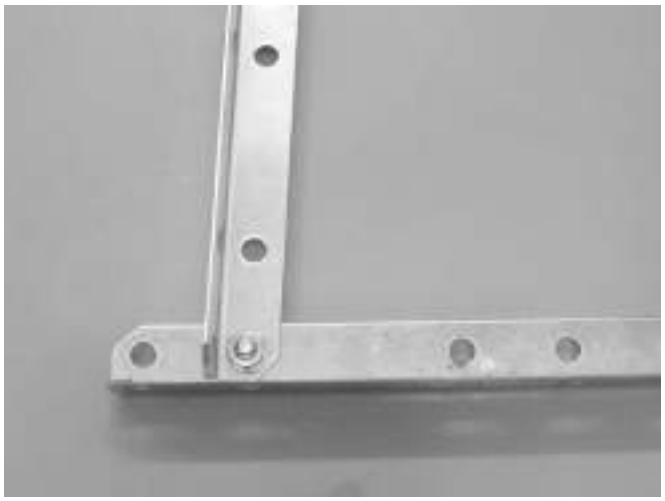
3.4 Add a 2000 mm long bar (3) and a 1370 mm long bar (5) to the structure just assembled to form a triangular structure. Use 3 bolts, 3 nuts and 3 washers



A

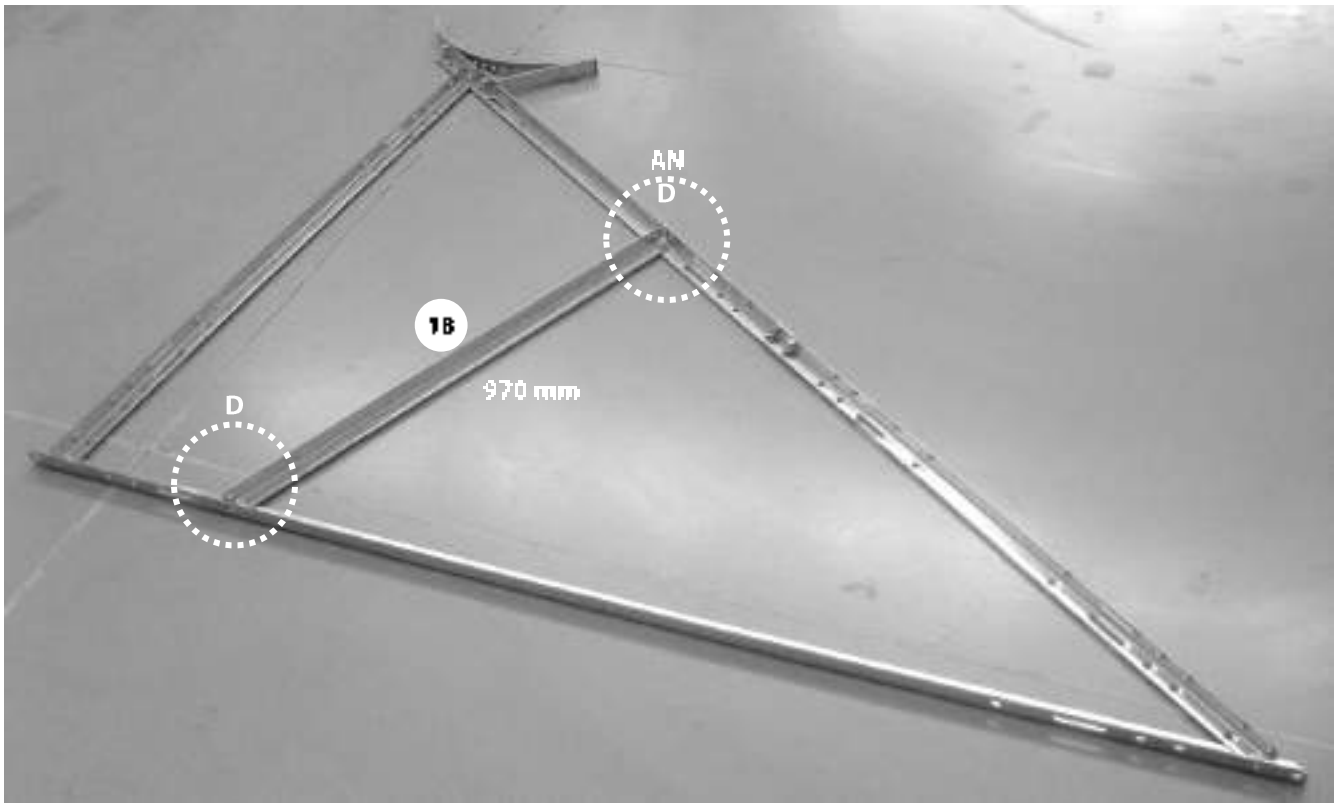


B



C

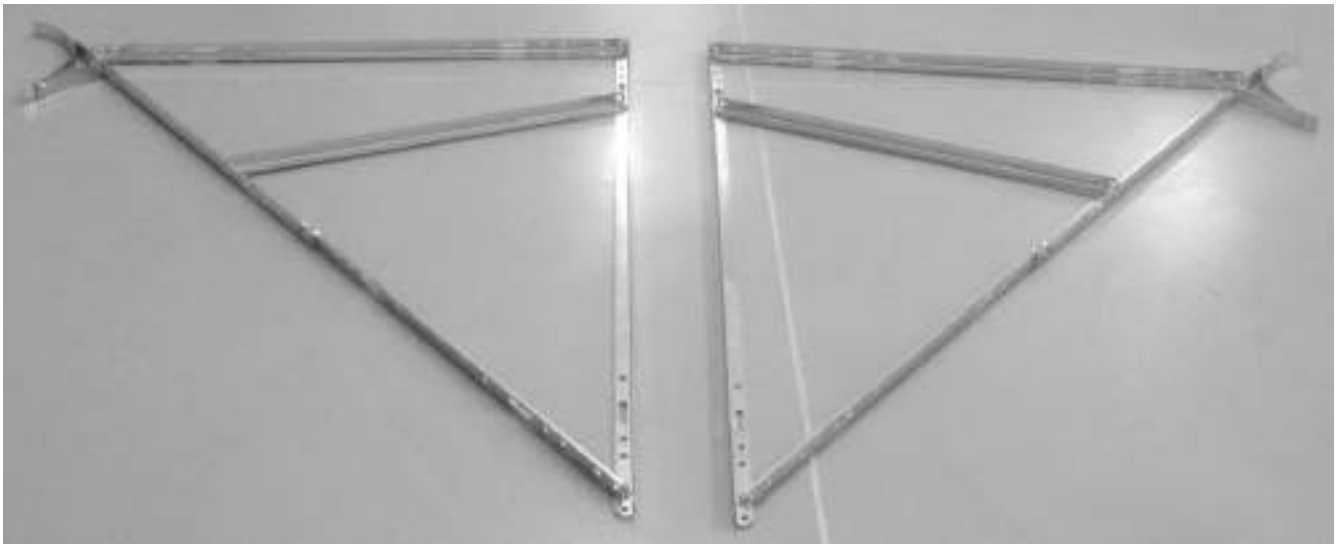
3.5 Add a 970 mm long frame support bar (1B) using 2 bolts, 2 nuts and 2 washers



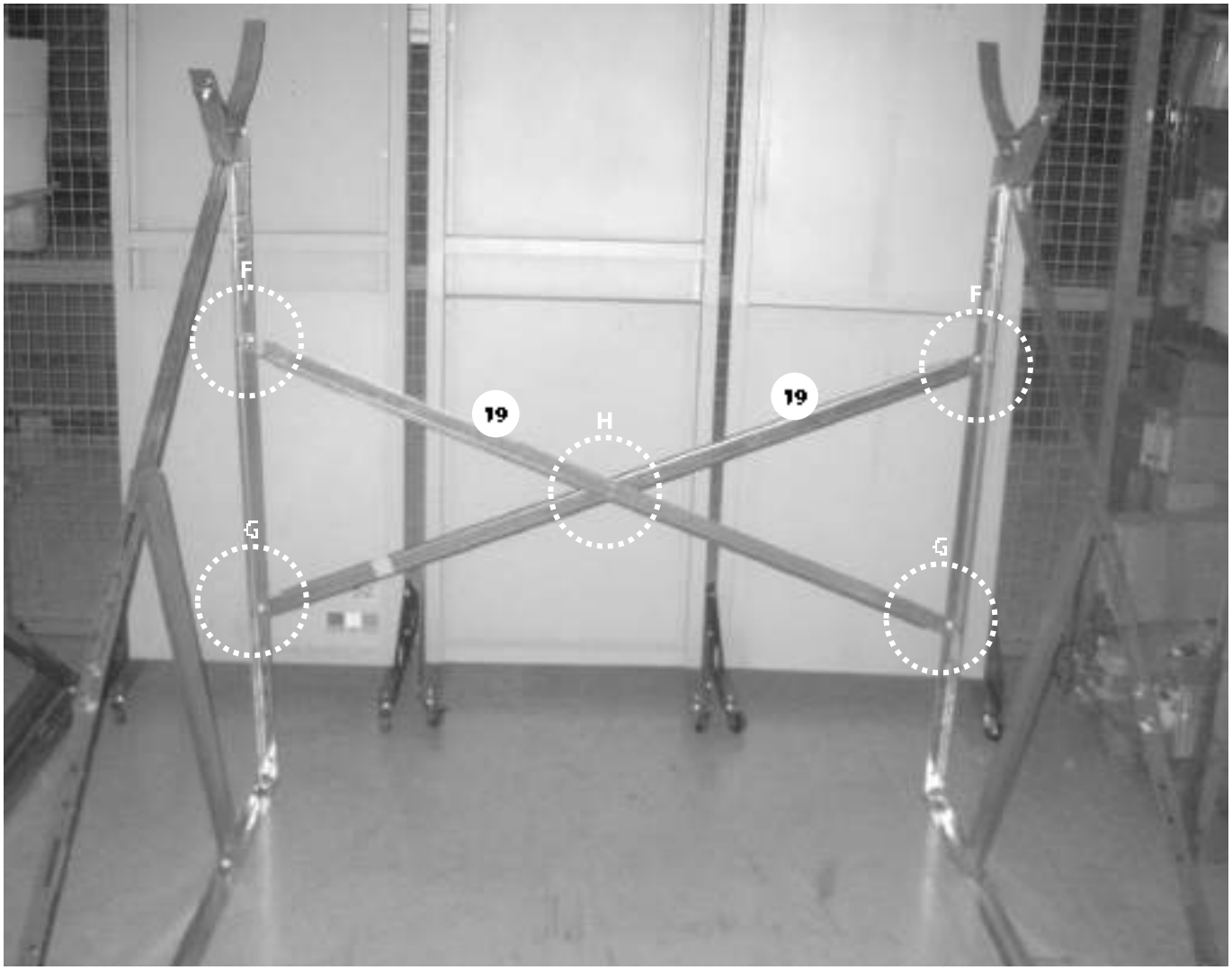
D

E

3.6 Repeat operations 3.1 through 3.5 to build another structure like that just prepared, but symmetrical



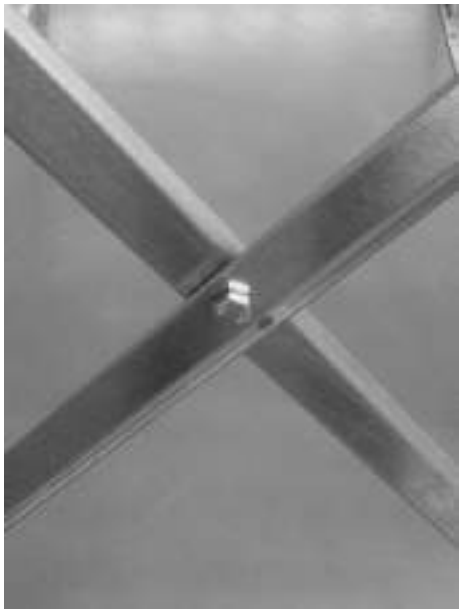
3.7 Using the two 1550 mm long X-shaped bars (19), couple the 2 structures previously built to create the support structure in the next photo. Use 5 bolts, 5 nuts and 5 washers



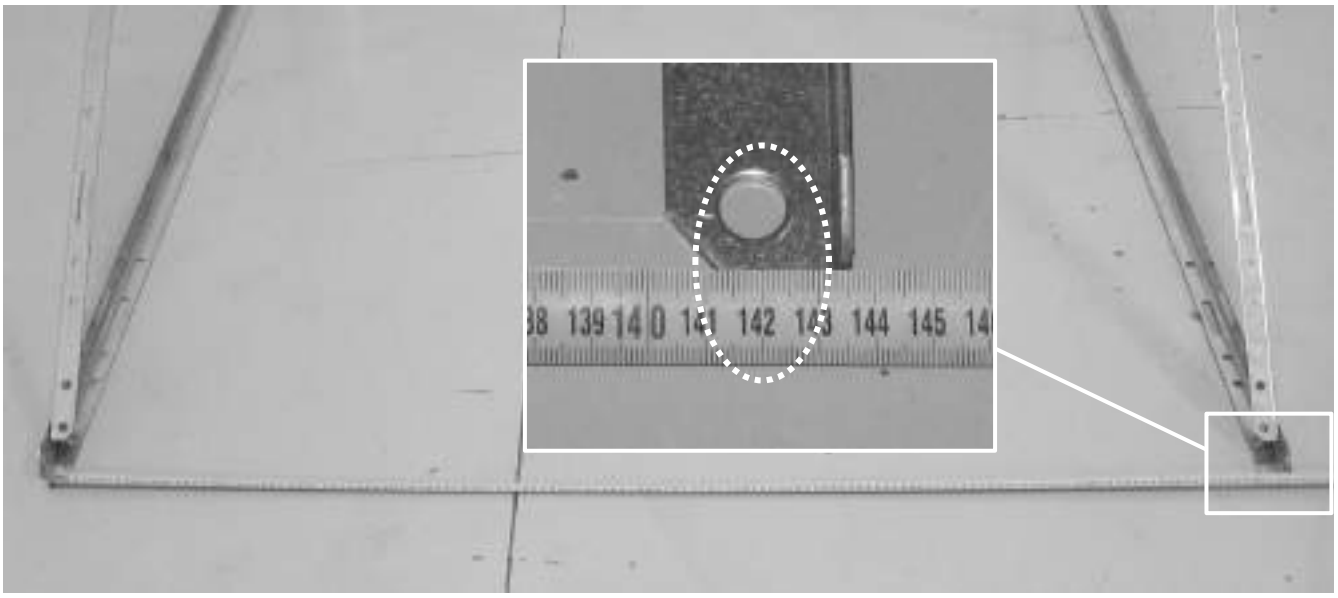
F

G

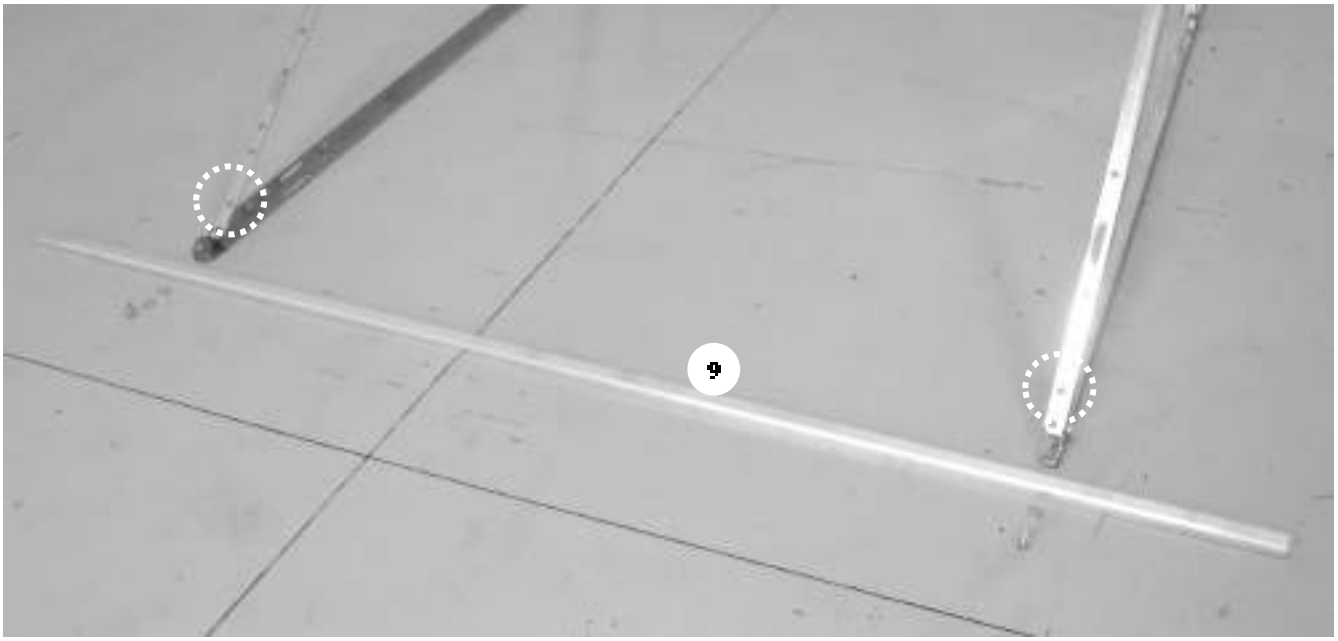
H

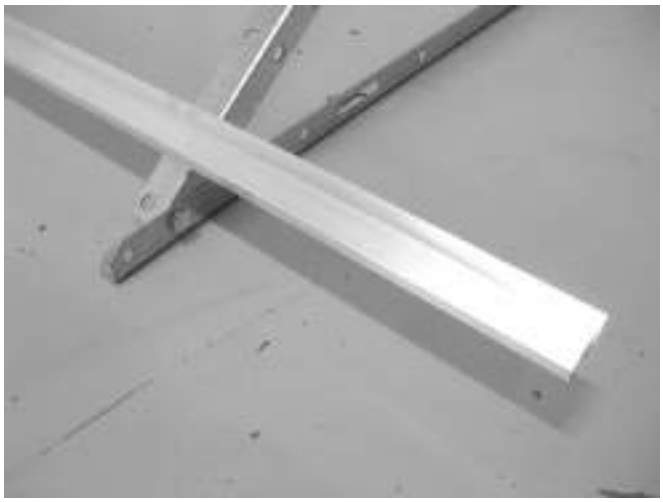


3.8 Make sure that the distance between the centres of the two structures' holes is equal to 142 cm



3.9 Fasten a 2060 mm long collector fastening bar (9) to the lower part of the structure using 2 bolts, 2 nuts and 2 washers

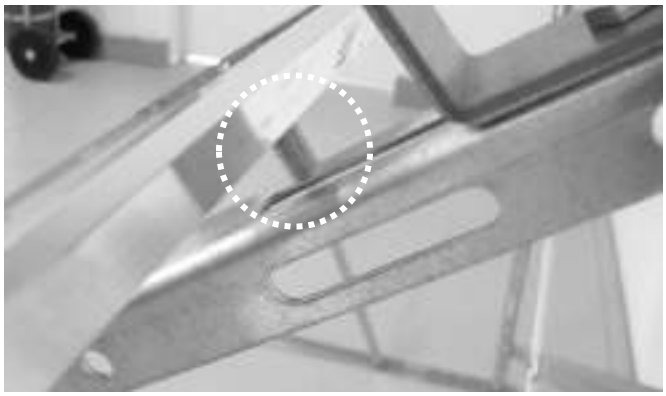


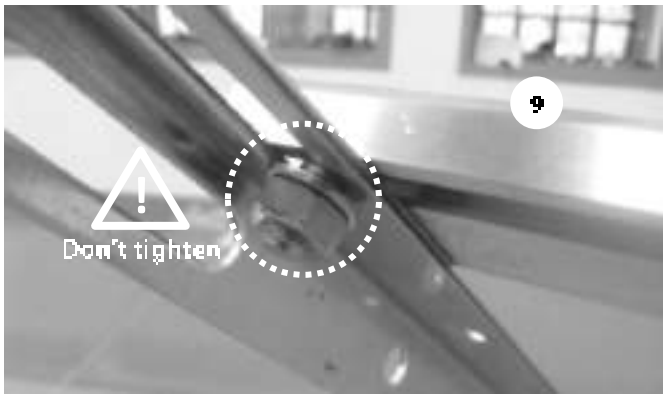


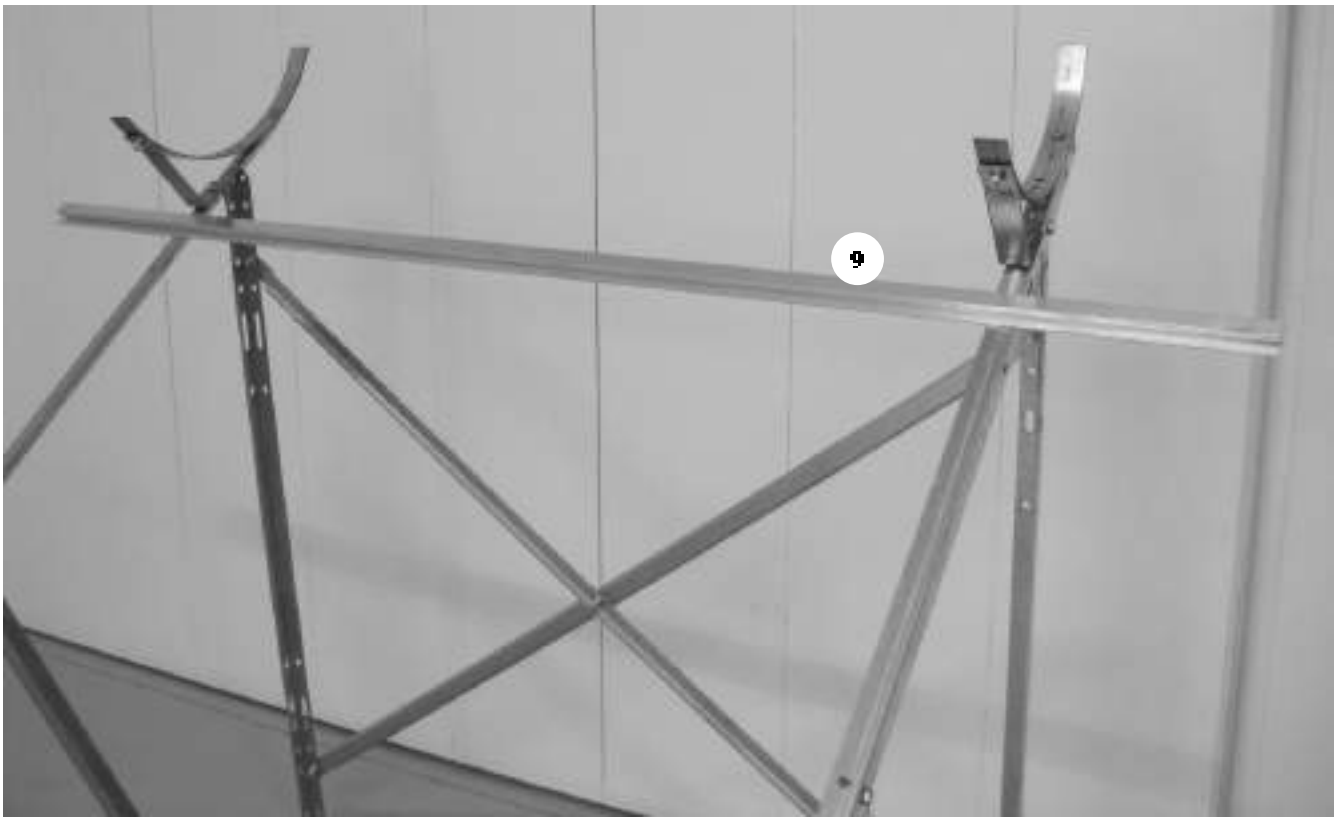
WARNING: the bar should protrude by the same length on the left and right.

3.10 Fasten the other 2060 mm long collector fastening bar (9) to the upper part of the structure using 2 bolts, 2 nuts and 2 washers.

WARNING: the bolts mustn't be tightened until the panel has been inserted into the structure.

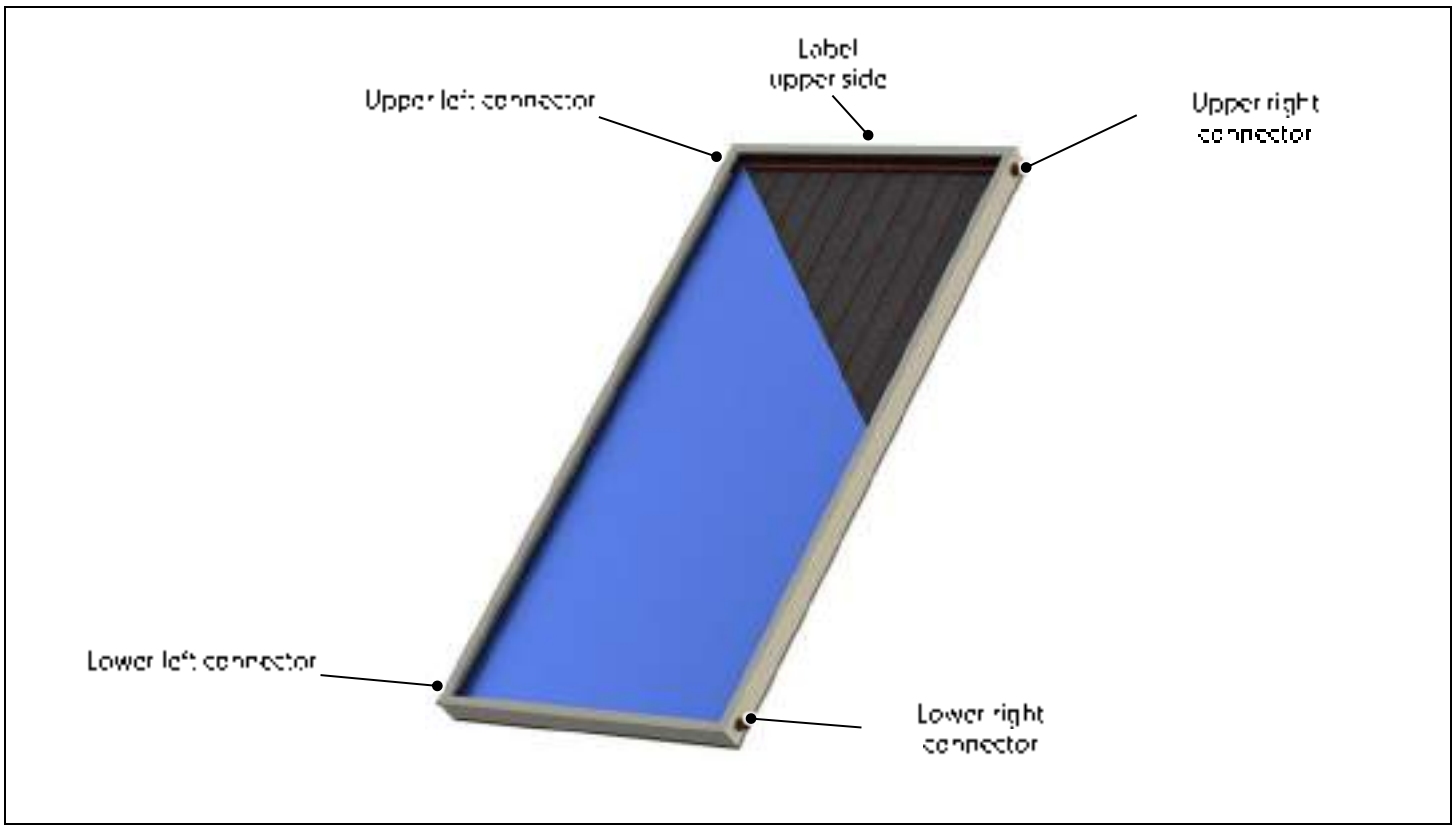






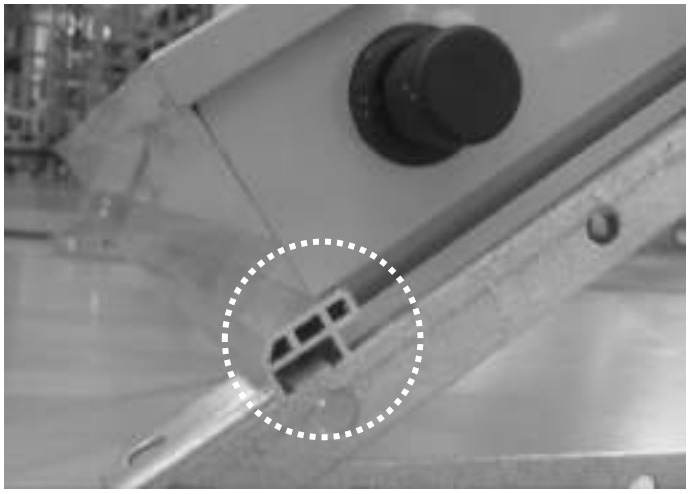
WARNING: the bar should protrude by the same length on the left and right.

4. Installation of the solar collectors

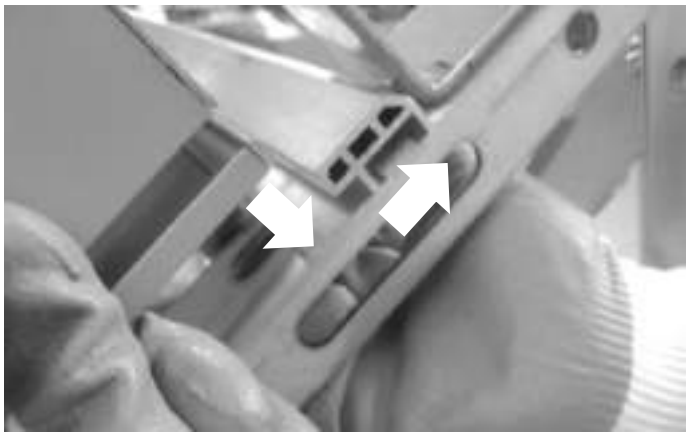


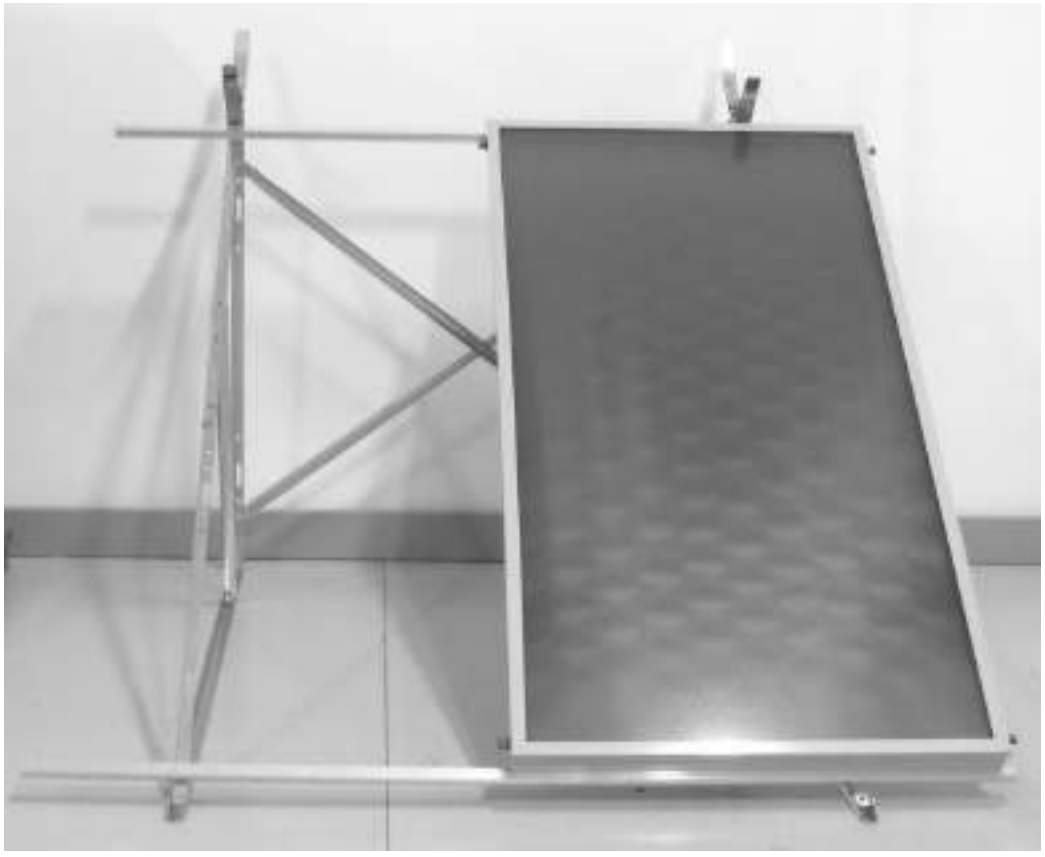
The collectors have a designated direction of installation
The top is indicated by a label .

4.1 Insert the first solar collector into the right part of the lower collector fastening bar (9), and make sure that it fits as shown in the figure



4.2 Insert the solar collector into the upper collector fastening bar (9) by sliding it upwards



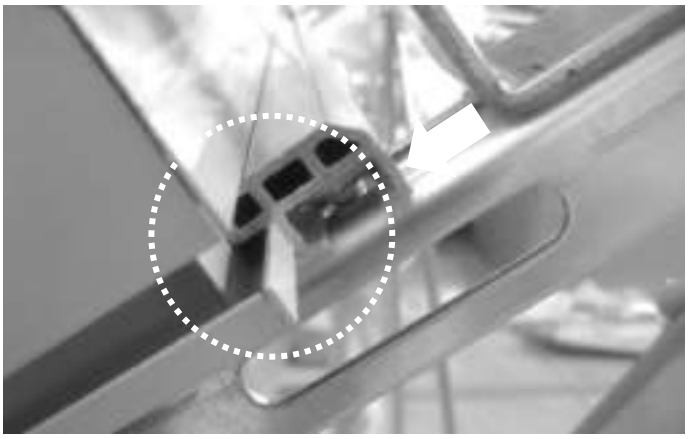


4.3 Repeat operations 4.1 and 4.2 to insert the second collector into the left part of the structure.

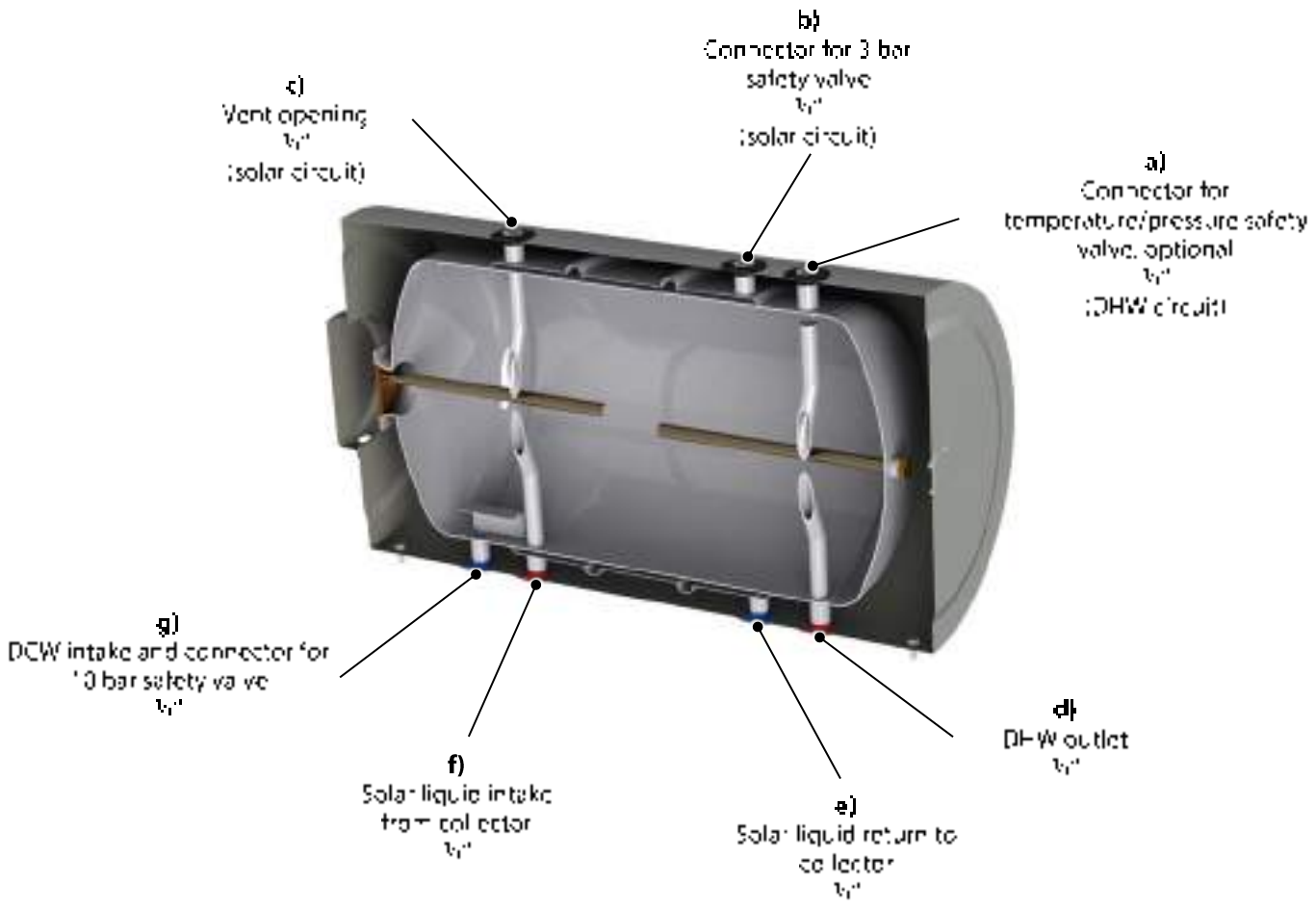
4.4 Using the 2 compression couplings with ogives Ø 22 mm x Ø 22 mm, connect the 2 solar collectors at the top and bottom.

Warning: the 2 collectors must be centred in the structure.

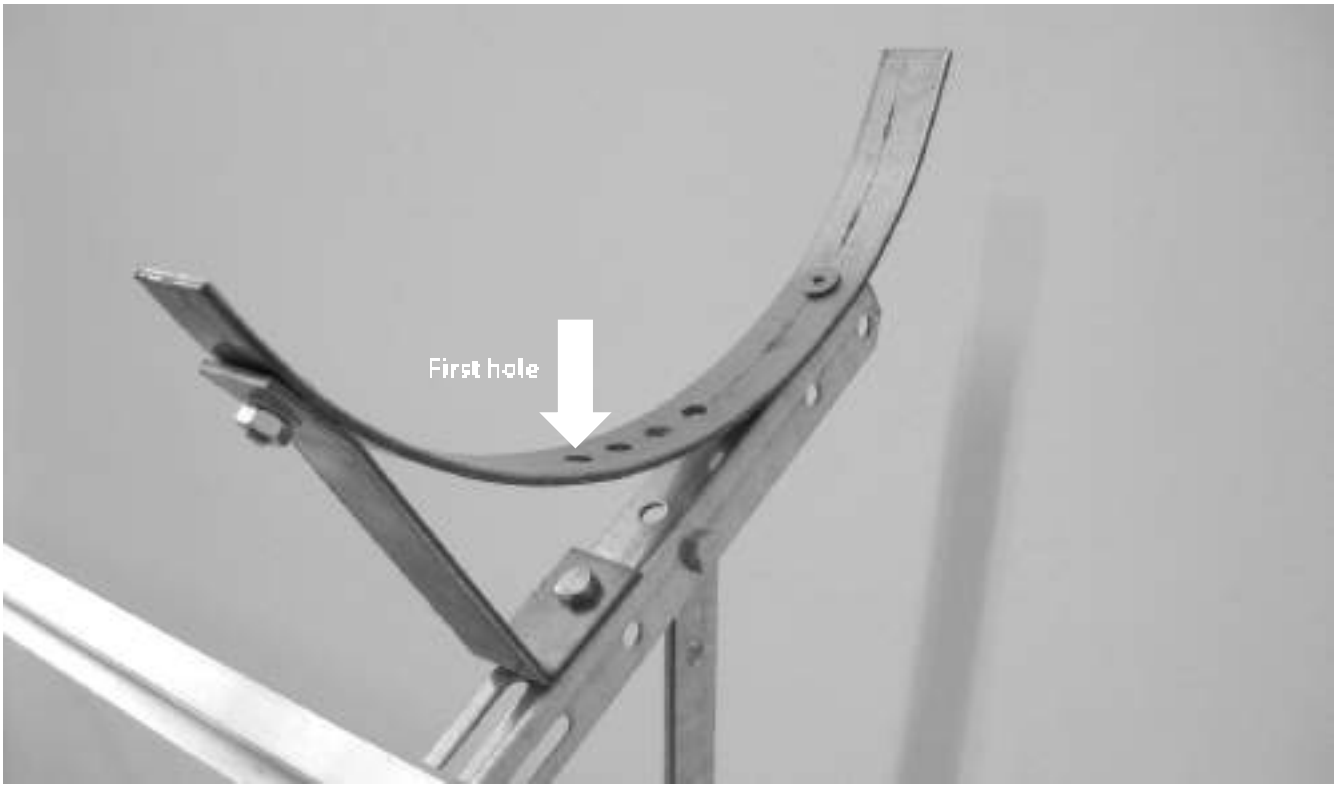
4.5 Push the upper collector fastening bar (9) downwards until it fits into the collectors, then tighten the nuts.



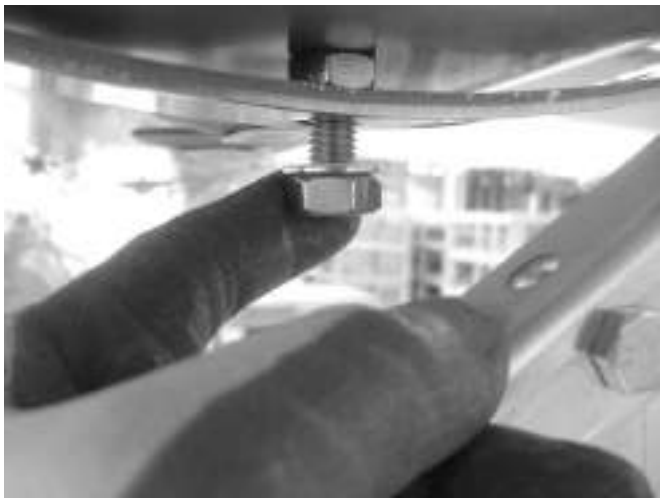
5. Boiler installation and water connections

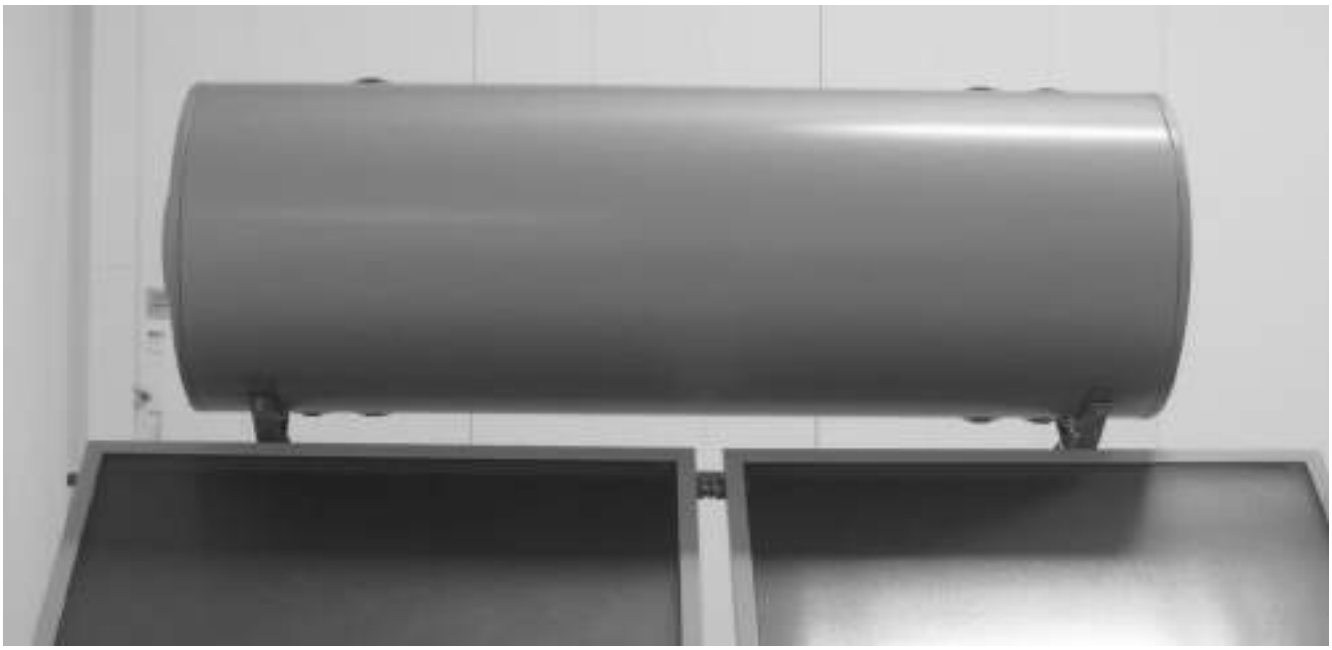


5.1 Insert the boiler into the structure and rest it on the U-brackets
The boiler has two threaded M10 inserts, which must be inserted into the U-brackets' **first holes**.

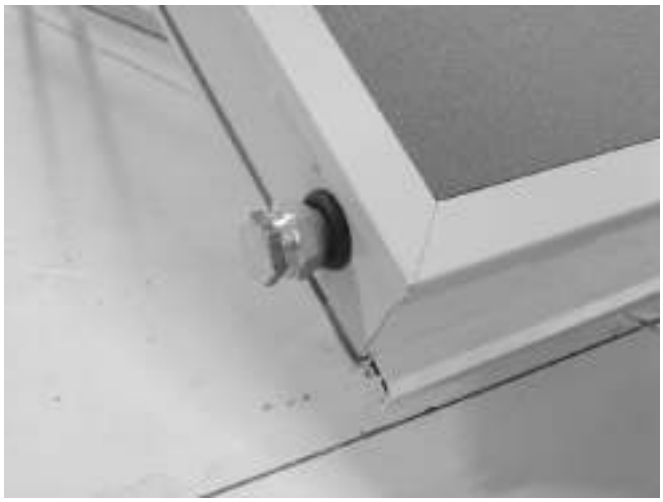


Fasten the boiler using 2 nuts and 2 washers

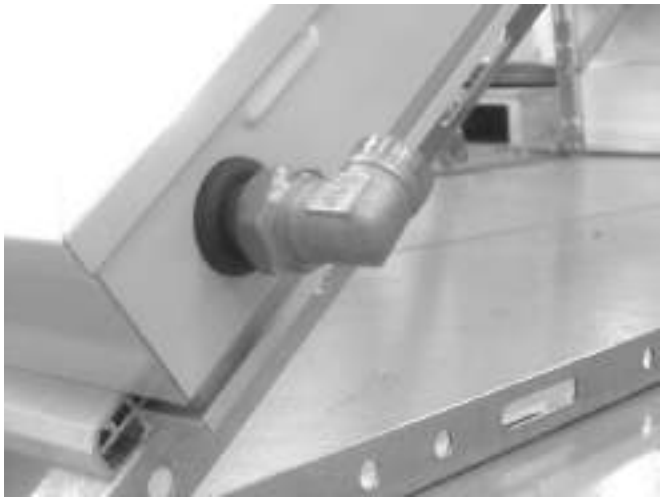




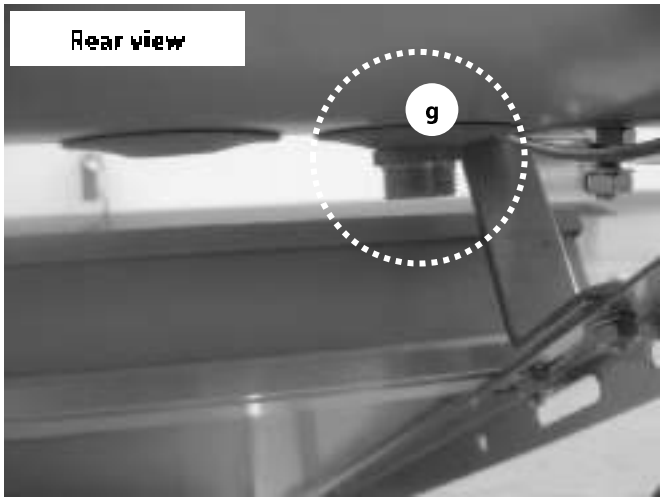
5.2 Fasten the two Ø 22 mm compression caps onto the two solar collectors' upper right and lower left connections

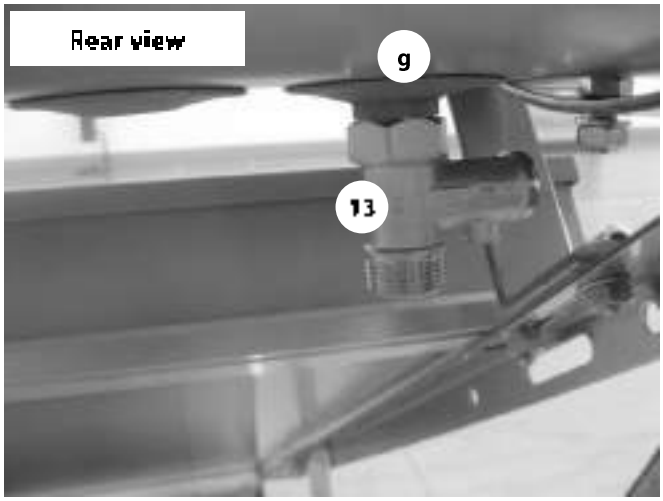


5.3 Fasten the two Ø 22 mm x ½" M compression elbow couplings onto the two solar collectors' upper left and lower right connections.

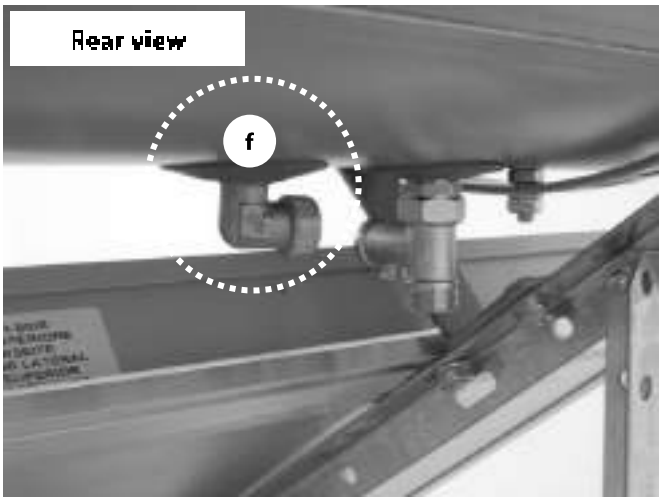


5.4 Using a ½" M x ½" M nipple, connect the 6 bar domestic water safety valve (13) to the boiler's DCW intake (g).
Seal the threads using a thread seal tape suitable for high temperatures

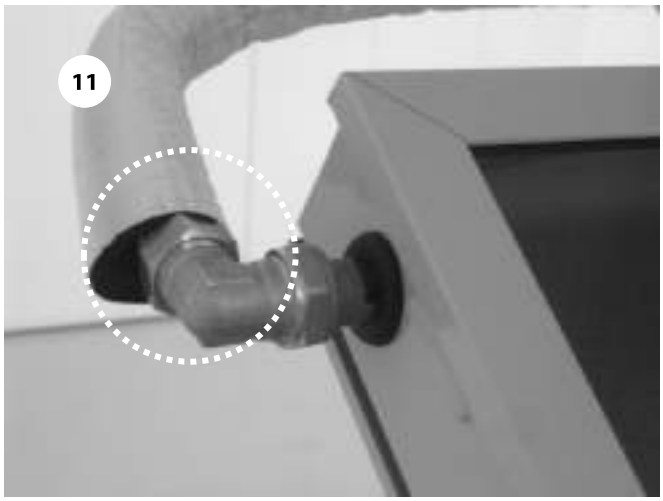


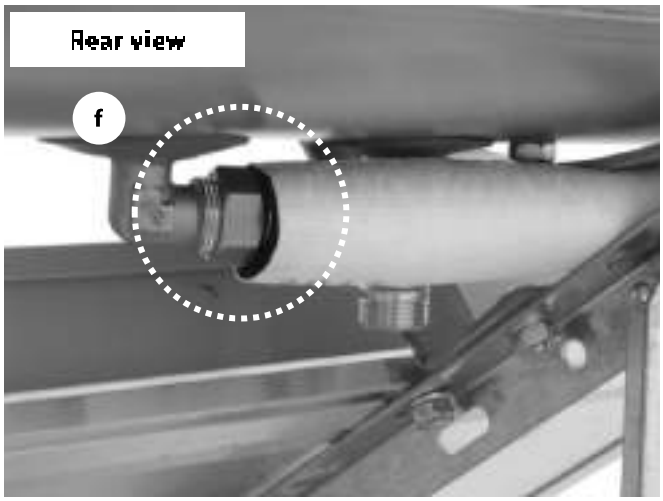


5.5 Insert a ½" M x ½" M elbow coupling at the boiler's solar liquid intake (f).
Seal the threads using a thread seal tape suitable for high temperatures

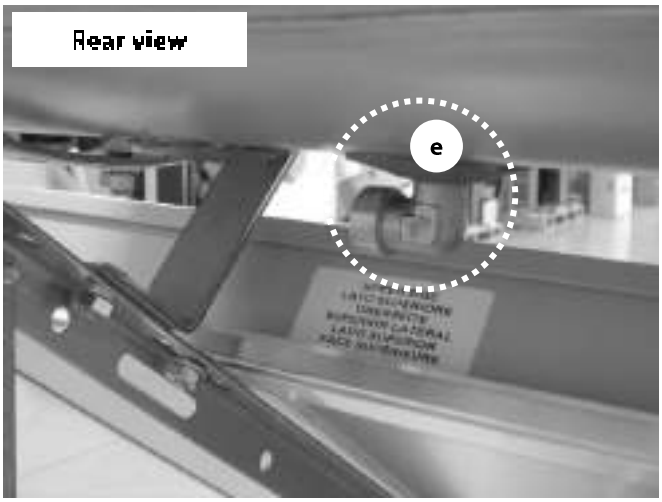


5.6 Using two ¾" gaskets, connect the 670 mm long flexible steel pipe (**11**) to the left solar collector's upper left connection and to the boiler's solar liquid intake (**f**).
The flexible steel pipe must proceed in an upward direction from the connector on the collector to the connector on the boiler (**f**).

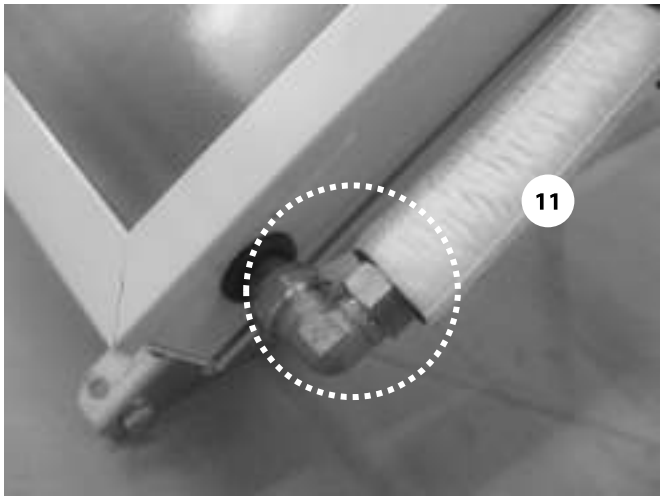


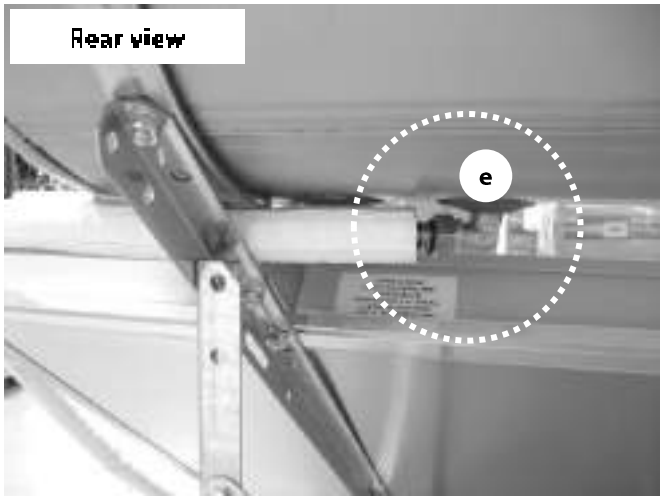


5.7 Insert a ¾" M x ¾" M elbow coupling at the boiler's solar liquid return (**e**).
Seal the threads using a thread seal tape suitable for high temperatures.



5.8 Using two ¾" gaskets, connect the 2620 mm long flexible steel pipe (**11**) to the right solar collector's lower right connection and to the boiler's solar liquid return (**e**).





5.9 Fasten the 2620 mm long pipe (**11**) to the collector using the U-bracket (**12**).

5.10 At this point the structure can be fastened to the support surface using the 4 screws and 4 anchors provided (**16**) and (**20**). If the supplied anchors are unnecessary or unsuitable for the type of surface in question, arrange for appropriate anchors to be provided.

5.11 Connect the cold water intake and the hot water outlet to the respective connectors on the boiler (g) and (**d**).

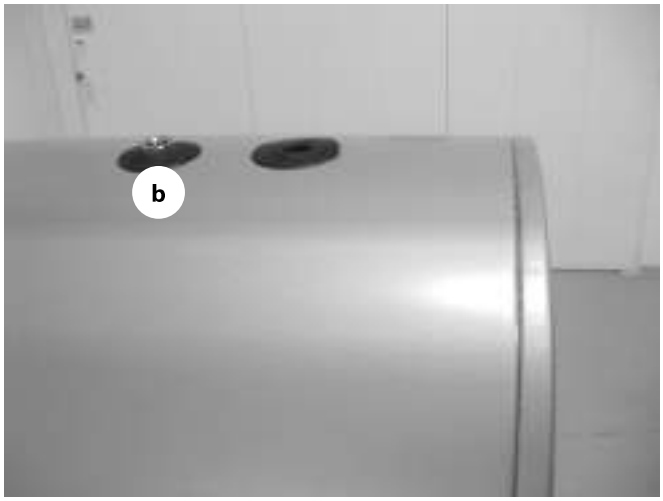
5.12 Fill the boiler on the domestic water side, as described in the **Filling the system** section of the **Installation, use, and maintenance manual.**

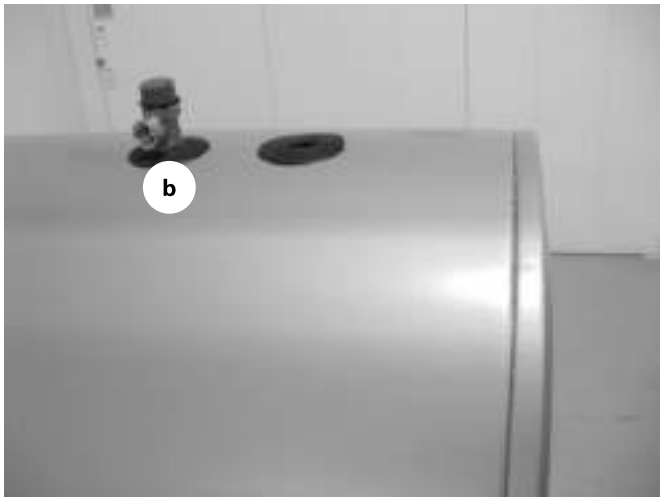
5.13 Once the boiler has been filled, install a temperature/pressure safety valve (optional, if required) on the boiler's corresponding connector (**a**). Otherwise cap the relative hole with the ¾" M cap.
Seal the threads using a thread seal tape suitable for high temperatures.

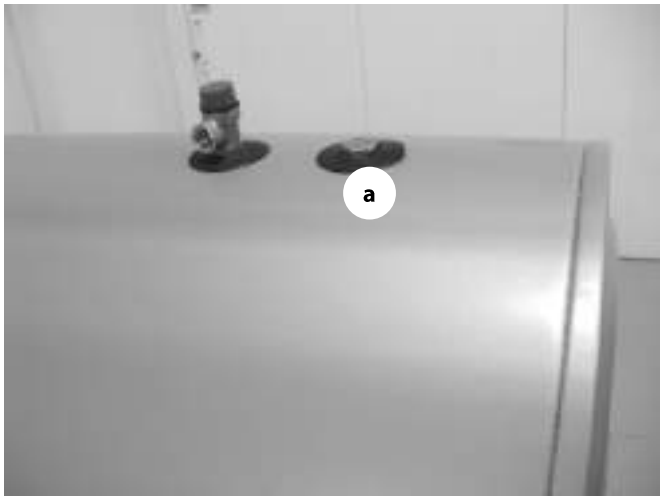
5.14 After having mixed the propylene glycol, fill the solar circuit as described in the **Filling the system** section of the **Installation, use, and maintenance manual.**

5.15 Once the circuit has been filled, install the 3 bar safety valve on the boiler's corresponding connector (**b**) using the ¾" M x ½" F adapter.
Seal the threads using a thread seal tape suitable for high temperatures.

5.16 Install the ¾" M cap on the connector (**c**).
Seal the threads using a thread seal tape suitable for high temperatures.







P S L I B R I T O 5

FONDITAL S.p.A.
Società a unico socio
Via Cerreto, 40
25079 VOBARNO (Brescia) Italia
Tel.: +39 0365 878.31 - Fax: +39 0365 879.304
e-mail: info@fondital.it - Web: www.fondital.com
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