



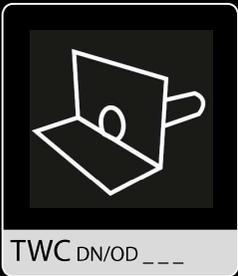
Installation instructions

Instrucciones de instalación



 Scupper drain

 Desagües de imbornales



TWC DN/OD ____

DN/OD 4"
DN/OD 5"
DN/OD 6"

____ BIT
____ TPO

1. Assembly manual for TOPWET® scupper drains

1.1 Substrate preparation

A TOPWET® spout can be installed into a prepared or additionally drilled hole in the attic or another above-the-roof structure. The minimal dimensions of the hole are specified on the other side of the manual (Picture 2.1). The bottom part of the spout needs to be installed in a way that the bottom inflow edge of the drain is at least 1/5" to 1/2" lower than the connected surface of the base waterproofing layer.

 **WARNING!**

1.2 Fixing TOPWET® scupper drains

Drain installed in the attic or another above-the-roof structure shall be mechanically secured using the appropriate fixings. The free space in the opening around the drain shall be filled with thermal insulation or assembly polyurethane foam, which is used for fixing the spout and, at the same time, as thermal insulation.

 **CAUTION!**

1.3 Connection of the drains to rainwater waste pipe, rain hopper or water flow to free exterior space

When water freely flows through the attic to the free exterior space, it is absolutely necessary to secure the drip edge at the end of the drain pipe (for example, by shaping the bottom part of the pipe using hot air).

The drain is connected to the pipeline using a flexible rubber coupling that is part of every product. A drain is inserted into the coupling from one side, and a pipe from the other. The coupling is tightened at both ends with an endless stainless steel jubilee band.

 **WARNING!**

1.4 Connection scupper drains to the waterproofing layer

Connections of TOPWET® drains to the waterproofing layer are conducted using an integrated sleeve, most often made of an asphalt strip or TPO foil, PVC foil, EPDM, etc. (see Picture 2.2).

NOTICE

Connection of the integrated sleeve of the drain from an asphalt strip to the waterproofing layer of the roof from the strata of two-layer asphalt strips is implemented by placing the sleeve in between the two layers of the hydro-insulation strata. The mutual overlap is at least 4 3/4". The sleeve is inserted in between the strips in a way that the final connection is "in the direction of the water flow". For a single-layer hydro-insulation made of an asphalt strip, the detail of the connection of the drain to hydro-insulation needs to be amended by an additional asphalt base strip.

Connection of the integrated sleeve of the drain made of TPO foil is hot-air welded to the hydro-insulation layer of the roof, making sure the resulting connection is "in the direction of the water flow". The weld gap should be at least 1 1/4". It is recommended to amend the connection of hydro-insulation to the sleeve by a safety grout matter.

 **CAUTION!**

1.5 Protection grid

Protection grid forms a part of every TOPWET® round drain package. A protection grid must be always installed in order to eliminate coarse dirt particles from entering the rainwater waste pipes, thus preventing their plugging. When water freely flows through the attic to free exterior space, the grid does not have to be used.

 **CAUTION!**

For roof coverings with pebble ballast, a special stainless steel TOPWET® protection dome should be used. The height of this dome shall be selected in a way that the upper level of the dome is at least 1 1/2" above the upper level of the gravel aggregate. A pebble ballast aggregate of 3/4" to 1 1/2" grade should be used within 20' around the drains.

NOTICE

For sedum roofs, inspections and maintenance of the drains have to be enabled by the means of using a special TOPWET® shaft for green roofs. Shafts of 16 x 16" will create a free access around the drains and, at the same time will secure their protection. It should be at least 12" wide, and typically 3/4" to 1 1/2" grade ballast.

 **CAUTION!**

1.6 Maintenance and cleaning of scupper drains

In order to secure reliable operation of the products, it is necessary to inspect and clean roof drains, protection dome, terrace extensions, odour flap and other accessories at least twice a year. If the risk of plugging is considered greater (such as leaves from surrounding trees), the frequency of the inspections should be increased.

 **WARNING!**

1.7 Storage and application conditions

The recommended storage temperature of products with TPO sleeve is in the range of 23 °F to +86 °F.

 **CAUTION!**

For products with a custom sleeve, the installation instructions of the waterproofing manufacturer must be observed during application and storage.

NOTICE

Products with an asphalt sleeve must be stored in a dry and cool environment.

NOTICE

When applying the product with an asphalt sleeve at temperatures below 32 °F, it is necessary to increase the number of work breaks. At temperatures lower than 23 °F the products must be stored in a temperate warehouse or at least 1/4 -1 h before application, allow the unpacked product to acclimatize in a temperate environment. At temperatures below 14 °F it is necessary to apply the products in heated tents.

 **WARNING!**

1. Manual de montaje de los desagües de imbornales TOPWET®

1.1 Preparación del soporte

Se puede instalar un caño TOPWET® en un orificio preparado o perforado adicionalmente en el ático u otra estructura sobre el techo. Las dimensiones mínimas del orificio se especifican en el otro lado del manual (Imagen 2.1). La parte inferior del pico debe instalarse de manera que el borde de entrada inferior del desagüe sea al menos 1/5" a 1/2" más bajo que la superficie conectada de la capa de impermeabilización base.

ADVERTENCIA!

1.2 Fijación de desagües TOPWET®

El desagüe instalado en el ático u otra estructura sobre el techo debe asegurarse mecánicamente con las fijaciones adecuadas. El espacio libre en la abertura alrededor del desagüe se rellenará con aislamiento térmico o espuma de poliuretano de montaje, que se utiliza para fijar el pico y, al mismo tiempo, como aislamiento térmico.

PRECAUCIÓN!

1.3 Conexión del desagüe a tuberías de desagüe de aguas pluviales, tolva de lluvia o flujo de agua para liberar espacio exterior

Cuando el agua fluye libremente a través del ático hacia el espacio exterior libre, es absolutamente necesario asegurar el borde de goteo al final de la tubería de drenaje (por ejemplo, dando forma a la parte inferior de la tubería con aire caliente). El desagüe está conectado a la tubería mediante un acoplamiento de goma flexible que forma parte de cada producto. Se inserta un desagüe en el acoplamiento desde un lado y una tubería desde el otro. El acoplamiento se aprieta en ambos extremos con una banda de jubileo de acero inoxidable sin fin.

ADVERTENCIA!

1.4 Conexión de boquillas a la capa impermeabilizante principal

Connections of TOPWET® drains to the waterproofing layer are conducted using an integrated sleeve, most often made of an asphalt strip or TPO foil, PVC foil, EPDM, etc. (see Picture 2.2).

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Connection of the integrated sleeve of the drain from an asphalt strip to the waterproofing layer of the roof from the strata of two-layer asphalt strips is implemented by placing the sleeve in between the two layers of the hydro-insulation strata. The mutual overlap is at least 4 3/4". The sleeve is inserted in between the strips in a way that the final connection is "in the direction of the water flow". For a single-layer hydro-insulation made of an asphalt strip, the detail of the connection of the drain to hydro-insulation needs to be amended by an additional asphalt base strip.

Connection of the integrated sleeve of the drain made of TPO foil is hot-air welded to the hydro-insulation layer of the roof, making sure the resulting connection is "in the direction of the water flow". The weld gap should be at least 1 1/4". It is recommended to amend the connection of hydro-insulation to the sleeve by a safety grout matter.

PRECAUCIÓN!

1.5 Rejilla de protección

La rejilla de protección forma parte de cada paquete de drenaje redondo TOPWET®. Siempre se debe instalar una rejilla de protección para evitar que las partículas de suciedad gruesas entren en las tuberías de desagüe de aguas pluviales, evitando así su obstrucción. Cuando el agua fluye libremente a través del ático para liberar espacio exterior, no es necesario utilizar la rejilla.

PRECAUCIÓN!

Para cubiertas de tejados con lastre de guijarros, se debe utilizar una cúpula de protección especial TOPWET® de acero inoxidable. La altura de este domo se seleccionará de manera que el nivel superior del domo esté al menos 1 1/2" por encima del nivel superior del agregado de grava. Se debe usar un agregado de lastre de guijarros de 3/4" a 1 1/2" dentro de las 20" alrededor de los desagües.

AVISO

Para los techos de sedum, las inspecciones y el mantenimiento de los desagües deben habilitarse mediante el uso de un pozo TOPWET® especial para techos verdes. Los ejes de 16 x 16" crearán un acceso libre alrededor de los drenes y, al mismo tiempo, asegurarán su protección. Debe tener al menos 12" de ancho y, por lo general, un lastre de grado de 3/4" a 1 1/2".

PRECAUCIÓN!

1.6 Mantenimiento y limpieza de desagües de tejados

Para garantizar un funcionamiento fiable de los productos, es necesario inspeccionar y limpiar los desagües del techo, la cúpula de protección, las extensiones de terrazas, la tapa de olores y otros accesorios al menos dos veces al año. Si se considera que el riesgo de taponamiento es mayor (como las hojas de los árboles circundantes), se debe aumentar la frecuencia de las inspecciones.

1.7 Condiciones de almacenamiento y aplicación

La temperatura de almacenamiento recomendada de los productos con mango de TPO está en el rango de 23 ° F a + 86 ° F.

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Para productos con una funda personalizada, se deben observar las instrucciones de instalación del fabricante de impermeabilizantes durante la aplicación y el almacenamiento.

AVISO

Los productos con manga asfáltica deben almacenarse en un ambiente seco y fresco.

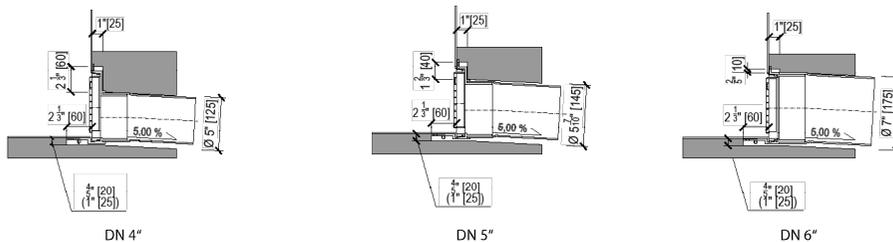
AVISO

Al aplicar el producto con una manga de asfalto a temperaturas inferiores a 32 ° F, es necesario aumentar el número de descansos de trabajo. A temperaturas inferiores a 23 ° F, los productos deben almacenarse en un almacén templado o al menos 1/4 -1 h antes de la aplicación, permita que el producto desempacado se aclimate en un ambiente templado. A temperaturas inferiores a 14 ° F es necesario aplicar los productos en carpas con calefacción.

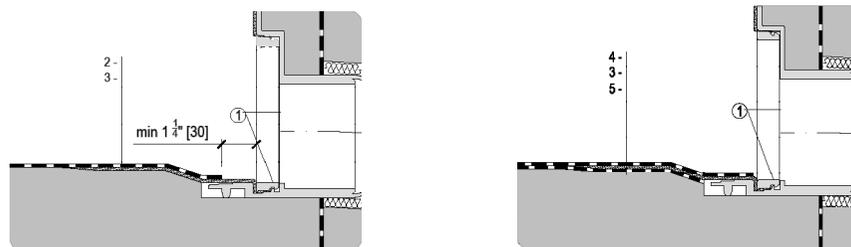
ADVERTENCIA!

2. Installation scheme

2.1 Minimal dimensions of the structural opening



2.2 Connection diagram of the integrated sleeve of the scupper



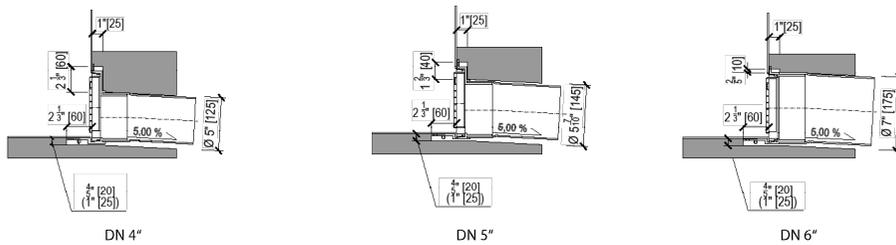
2.2.a TPO foil connection detail

2.2.b Connection detail of foil from asphalt strips

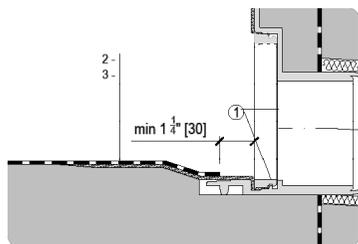
- 1 – drain flange
- 2 – hydro-insulation layer made of TPO foil
- 3 – integrated drain sleeve
- 4 – hydro-insulation layer made of asphalt strips
- 5 – base asphalt strip

2. Esquema de instalación

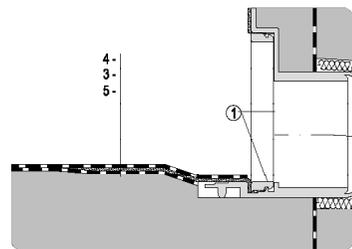
2.1 Dimensiones mínimas de la abertura estructural de los desagües de imbornales



2.2 Diagrama de conexión del manguito integrado del desagüe de imbornales



2.2.a Detalle de la conexión de la lámina TPO



2.2.b Detalle de conexión de lámina de tiras de asfalto

- 1 – brida de drenaje del techo
- 2 – capa de hidro aislamiento de lámina de TPO
- 3 – manguito de drenaje de techo integrado
- 4 – capa de hidro aislamiento hecha de tiras de asfalto
- 5 – tira de asfalto base

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DRAINAGE SYSTEMS

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