



Interiors

by **INEXA**



Craftsmen to the world's finest ships

TNF

Ceilings

C55 & C65

TNF ceilings C55 & C65

The C65 Ceiling panels with steel on both sides are rigid enough to carry ventilation unit, without support - no hangers required.

The C55 Ceiling panels cannot carry accessories such as luminaries, diffusers etc. which have to be individually suspended from the deck head by means of hangers.

Max. load without suspension: 25 kg - at a span of 3000 mm

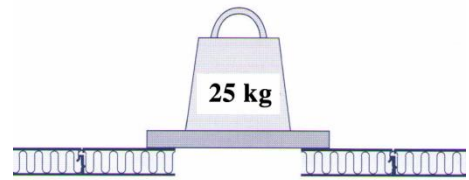
Max. hole size: 425 x 425 mm in the 600 mm wide panel.

Ceilings construction

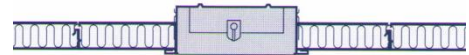
The ceilings are self-supporting systems with an interlocking joint. The ceiling panels are supported by the wall panel top profiles.

Ceiling features

- Self supporting ceiling panels up to 3000 mm
- Individually demountable ceiling panels
- Fully insulated ceiling panels
- No extra insulation is necessary to achieve B-class fire rating
- Perforated, whenever needed



TNF C65 ceiling is a high load self-supporter.



Light fixture installed in a TNF C65 ceiling panel. Suspension by hangers is not necessary.

Ceiling dimension

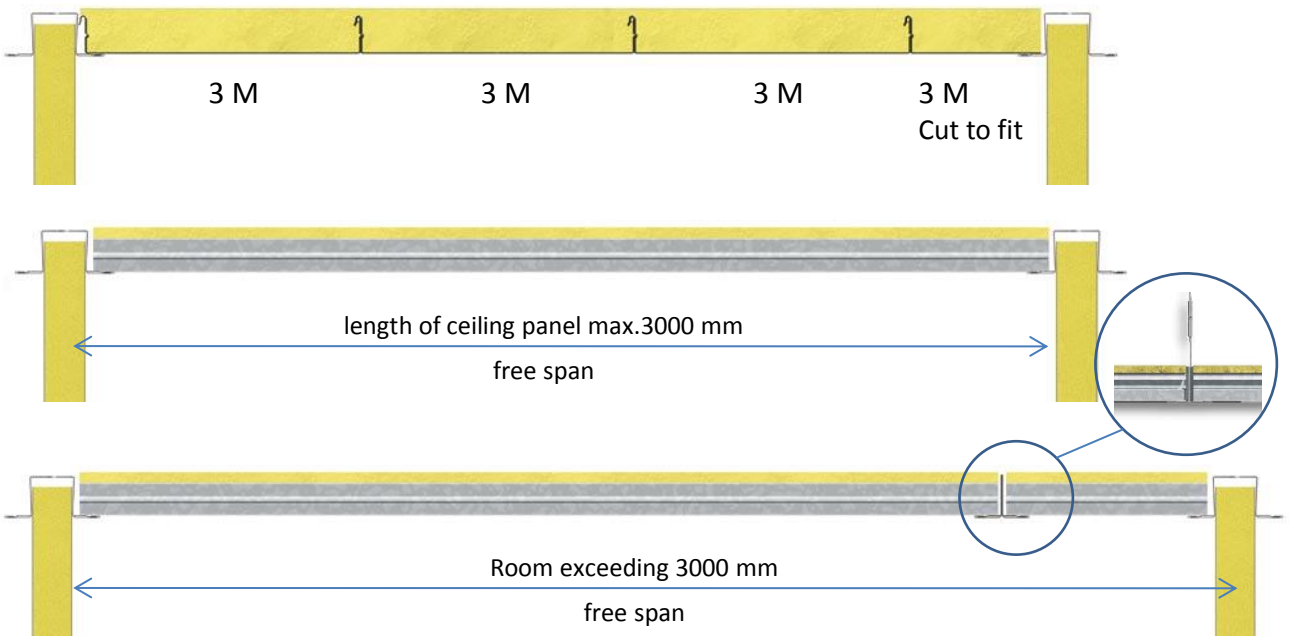
The ceiling panels are delivered in standard width 300 mm for C55 and 600 mm for C65 (can be delivered in 300 mm) and in pre-cut lengths from 800 mm to 3000 mm to fit individual rooms.

Ceiling surface

The ceiling panels are designed with a clean, flat surface.

TNF MAGIC or stainless steel

For protection during handling and installation, the ceiling panels are supplied with a peel-off protection film.



TNF Ceilings C55 and C65

Panel assortment		Dimensions			Weight	Insulation	
Type	Width	Thickness	Length	Fireclass	kg/m ²	value	
TNF C55	3M	300mm	50mm	<3000mm	B15	9,5	K=0,8W/mK
TNF C65	6M	600mm*	50mm	<3000mm	B15	18,0	K=0,9W/mK
TNF C65	3M	300mm	50mm	<3000mm	B15	19,0	K=0,9W/mK

*Non standard

Installation

Standard procedure

When installing the TNF ceilings, the following procedure should be used:



1. Start the installation with a ceiling panel which turns the c-part of the joint towards the top profile.

2. Hook the next ceiling panel onto the first panel making an i/c-joint and continue like that.

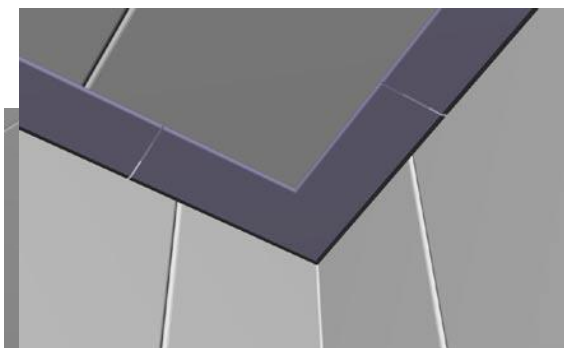
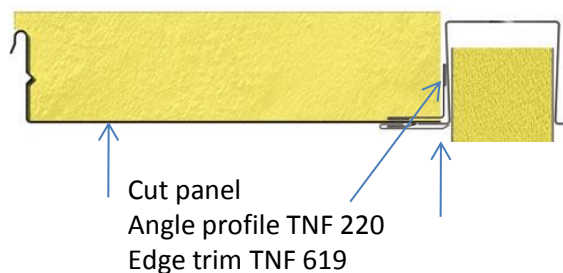
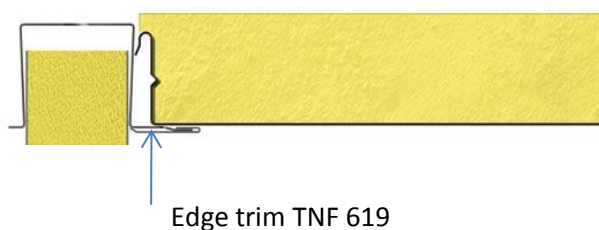


3. When the last panel has to be cut to fit, dents along the cut edge are avoided by placing an angle profile TNF 220 on top of the cut edge before fastening the panel to ensure

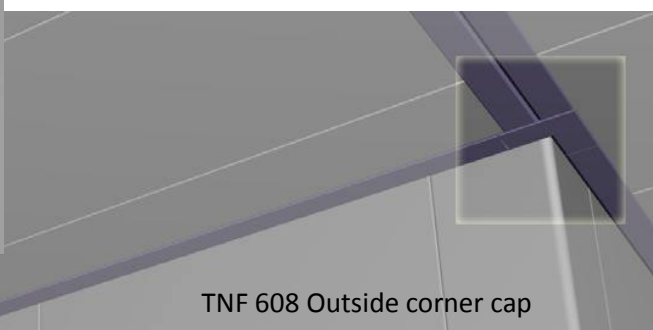
enough space for that operation, the cut panel should be installed before the panel next to it.

4. After the ceiling panels have been installed on the top profile flanges and correctly positioned, they should be fastened to the flanges by means of two steel pop rivets at both ends. The rivets to be positioned 100 mm apart.

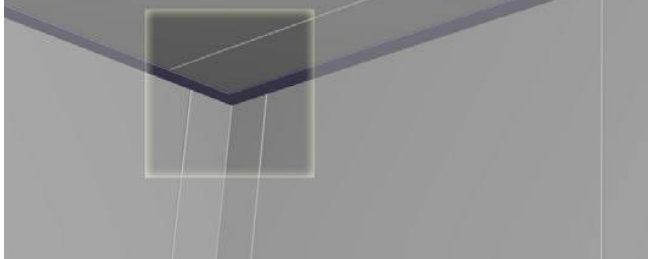
5. Install the corner caps, TNF 607 and TNF 608 and the edge trim TNF 619 on the top profile flanges.



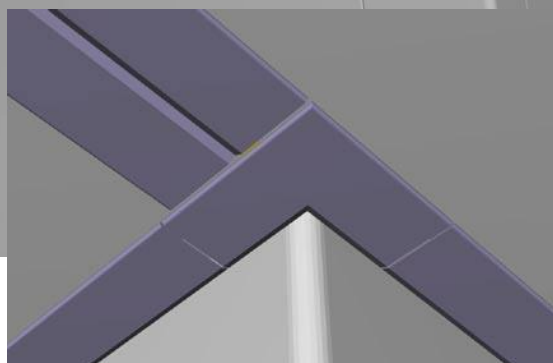
TNF 607 Inside corner cap



TNF 608 Outside corner cap

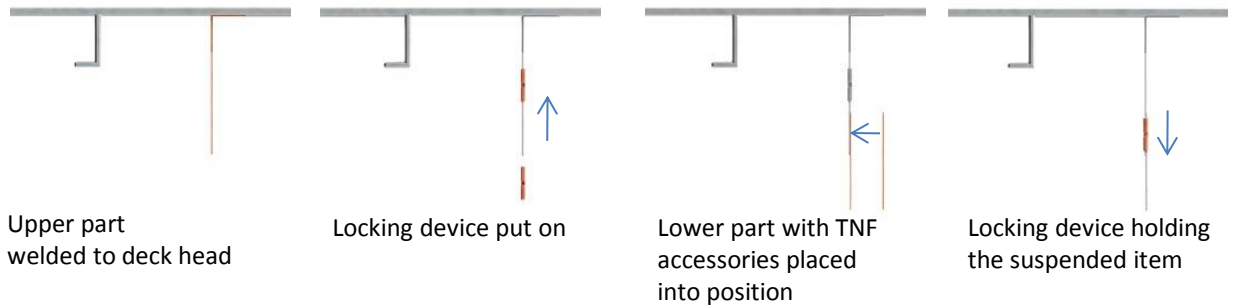


Edge trim with Corner Caps



Installation details

Installing Hangers



Installing T-carriers

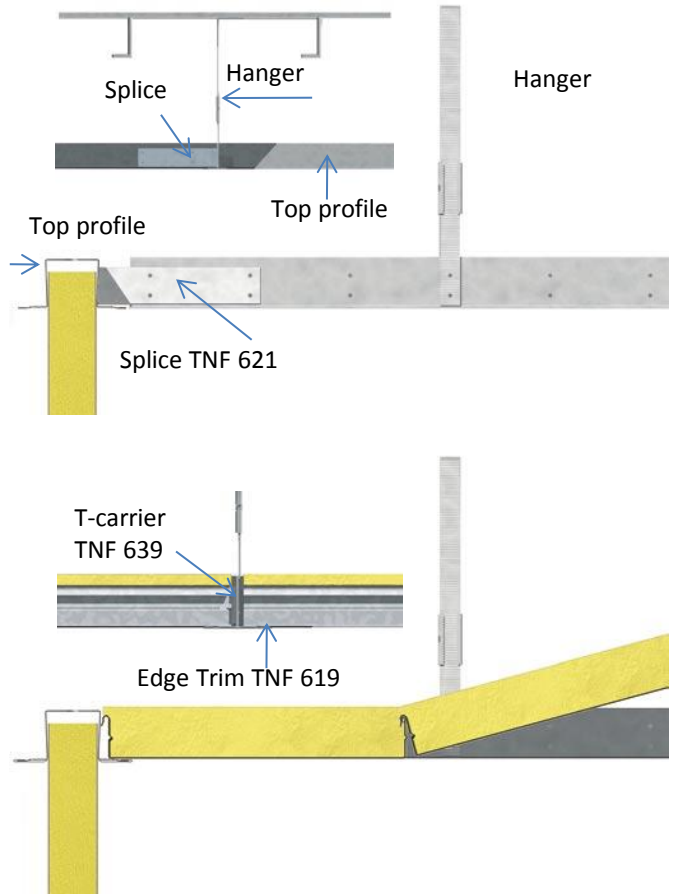
The lengths of the ceiling panels equal the interior distance between the two walls less 10 mm. When free span exceeds 3000 mm the ceiling panel must be jointed by the T-carrier TNF 639 suspended from the deck head.

The T-carrier is installed after the top profiles are positioned by suspension from the deck head by means of hangers at 1200 mm distance. The flange of the T-carrier has to be leveled with the flange of the top profiles.

The ends of the T-carrier are fastened to the top profile by means of the splice TNF 621 to prevent side ways movements.

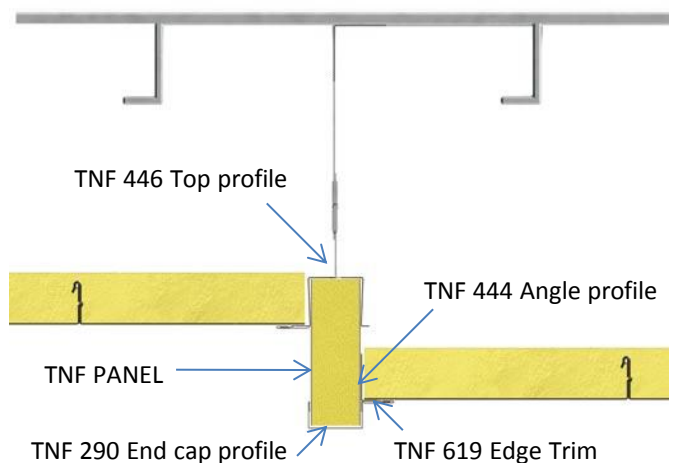
Splice TNF 621 fastened to the top profile and T-carrier

When the T-carrier is in position, the ceiling panels can be installed



Change of ceiling level

Change of ceiling level in case of domes or other special ceiling constructions can be accomplished as shown on the drawing.



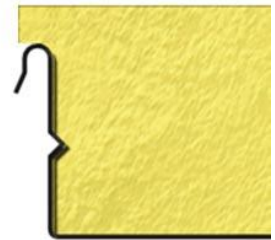
Ceiling features

Ceiling panel joint

The ceiling panels are hooked together by the i/c part, while the tongue and groove design locks the panels into position and ensures a flat, leveled ceiling surface.



i-part with tongue



c-part with groove

Easy and quick installation

The design of the ceiling panel joint makes the installation easy and fast and allows each individual ceiling panel to be demounted as illustrated.



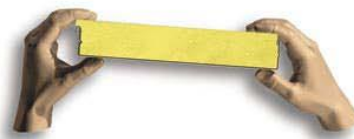
Fire integrity maintained

As the ceiling panels are fully insulated, the fire integrity will not be affected when the ceiling panels are demounted and re-installed.



Demountability

By pressing the ceiling panels upwards at the joint, the c-part of the panels will lift out easily, thus releasing the panel. It can then be removed.

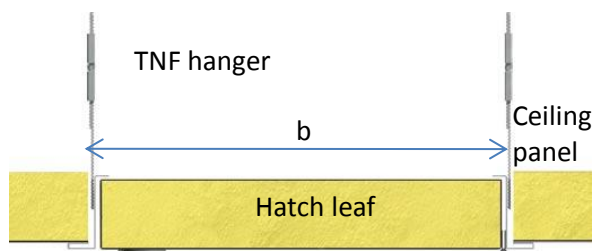


TNF inspection hatches

Standard assortment

Inspection and access hatches are supplied as units, ready to be installed as an integrated part of the TNF ceiling. The hatches are supplied in colours to match the ceiling surface.

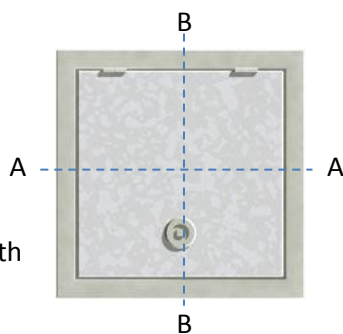
Installation



Locking device

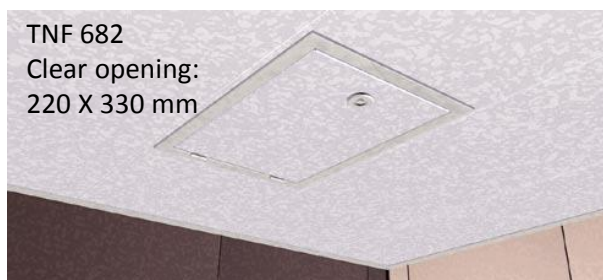
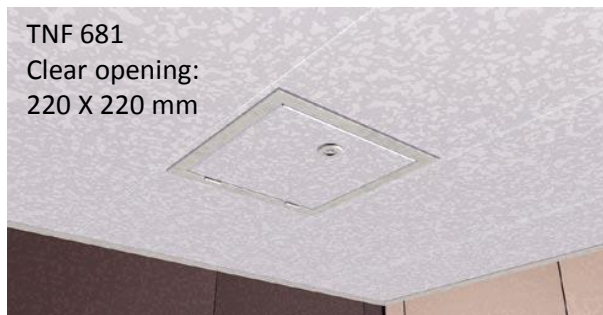
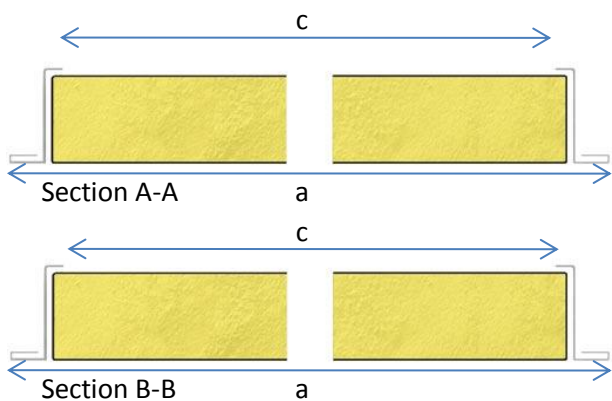
Hatch frame

Construction



Hatch sizes:

- a. Total width/length
- b. Cut out in panel
- c. Clear opening



Hatch Items no	Outer dimension		Cut out in the panel		Clear opening		Installation instruction
	a1	a2	b1	b2	c1	c2	
TNF 681	282	282	250	250	220	220	To be fitted within a single panel before installing in ceiling
TNF 682	282	392	250	360	220	330	Same installation procedure as TNF 681
TNF 683	630	630	600*	598	568	568	To be suspended from deck head by hangers before installation of surrounding ceiling panels
TNF 684	512	512	480	480	450	450	*600 mm = the width of two 300 mm panels

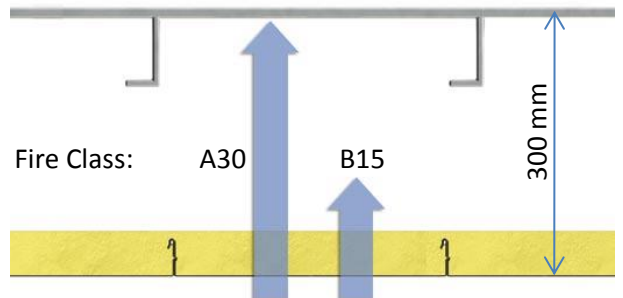
TNF ceiling quality features

MAGIC Surface

The surface finish has a built-in extra advantage with the special MAGIC coating which contains no halogens, no toxic fumes and gives a minimum flame spread.

The ceilings are also available with a surface of stainless steel.

For extra protection during handling and installation the ceiling panels carry a peel-off film.



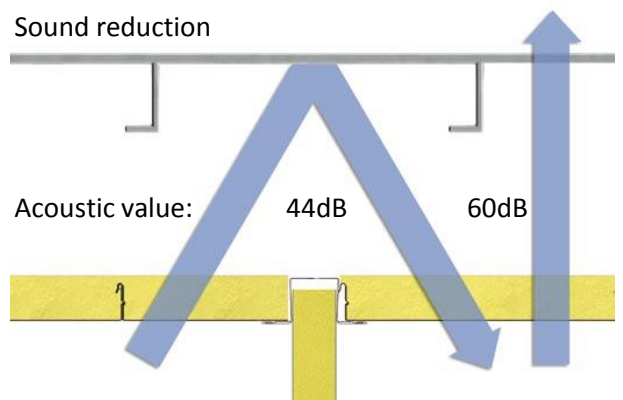
IMO Standard

The TNF ceiling complies with SOLAS safety regulations and is approved by all major authorities and classification societies.

- Each ceiling panel is fully insulated.
- No extra insulation is necessary.

Excellent sound reduction

The ceiling has excellent sound reduction values and therefore contributes to an improved environment in the cabins.



TNF is the complete high quality accommodation system for all marine interiors. The TNF system includes wall and ceiling panels, doors, floors, wetunits, furniture and prefabricated cabins. TNF has been leading the development in marine interiors since 1973. The world famous TNF quality is demonstrated in the environment, which can be designed to provide the ideal conditions for all functions.

TNF

Interiors by INEXA

The Original Marine Accommodation System

Craftsmen to the world's finest ships and offshore units

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