



Fire: EN 13501 –  
the European Standard

## The European Standards

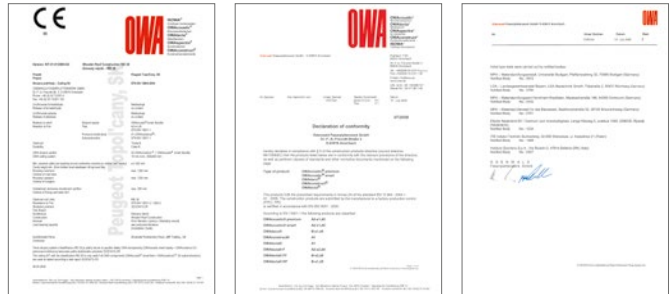
The harmonized European Fire Standards are a set of test standards that have been accepted by all countries within the European Economic Community. This allows manufacturers to produce or import products that have been tested to a common standard without the need to test in each member state. Testing to these standards is now accepted in all EEC countries.

Compliance with the European Standards and regulations is mandatory.

All certified European test laboratories (“Notified Bodies”) who are listed with EOTA (European Organisation for Technical Approval) may perform these tests and issue the corresponding test reports

(ITT – Initial Type Testing). In addition there may be national test or building regulation requirements that may need to be observed.

The Declaration of Performance (DoP) and the “KIT” CE label are the two main documents that will normally be required by local authority officers to show that the intended ceiling system will meet the specified performance level. The use of components other than those supplied by OWA will prevent the issuing of a KIT label.



## Reaction to fire

If a fire is able to find sufficient flammable materials it will quickly spread through an area. It is therefore crucial to use materials of limited combustibility on key surfaces within a room, such as ceilings and walls. The use of such materials can dramatically reduce the speed flames spread through an area as well as minimise their contribution to the fire.

The European Standard EN 13501-1: Reaction to fire provides a number of performance criteria to measure the fire characteristics of building products. These cover spread of flame and contribution to fire as well the generation of smoke and the production of burning droplets. The table below provides an overview of the available classifications.

| Additional requirements |                                      | European class according to EN 13501-1         |
|-------------------------|--------------------------------------|--|
| No smoke                | No burning droplets falling/dripping |  |
| ✓                       | ✓                                    | A1   |
| ✓                       | ✓                                    | A2-s1,d0                                       |
| ✓                       | ✓                                    | B-s1,d0   C-s1,d0                              |
|                         | ✓                                    | A2-s2,d0   A2-s3,d0<br>B, C-s2,d0   B, C-s3,d0 |
| ✓                       |                                      | A2-s1,d1   A2-s1,d2<br>B, C-s1,d1   B, C-s1,d2 |
|                         |                                      | A2-s3,d2   B-s3,d2                             |
| ✓                       | ✓                                    | D-s1,d0  |
|                         | ✓                                    | D-s2,d0   D-s3,d0                              |
|                         |                                      | E   E-d2   F                                   |
| ✓                       |                                      | D-s1,d2   D-s2,d2   D-s3,d2                    |

The additional designations are:

**Smoke** | s1, s2, s3

s1 = little or no smoke generation

s2 = medium smoke generation

s3 = heavy smoke generation

**Burning droplets** | d0, d1, d2

d0 = no droplets within 600 seconds

d1 = droplet form within 600 seconds but do not burn for more than 10 seconds

d2 = not as d0 or d1

| Country          | Test standard                   | Classification                                    |
|------------------|---------------------------------|---|
| EC member states | EN 13501-1                      | A2-s1,d0   B-s1,d0                                |
| Switzerland      | Guide to fire regulations, 1976 | VI q,3 virtually non-combustible, smoke level low |
| USA              | ASTM E 84 a / ASTM E 1264       | Class I / class A                                 |

## Resistance to fire

| Resistance to fire class EN 13501-2 | Resistance to fire duration in minutes |
|-------------------------------------|--|
| REI 30                              | ≥ 30                                   |
| REI 60                              | ≥ 60                                   |
| REI 90                              | ≥ 90                                   |
| REI 120                             | ≥ 120                                  |
| REI 180                             | ≥ 180                                  |

For European categorisation, a reaction to fire classification is always given separately.

Structural elements based on EN 13501-2 encompass the whole structural element and not just the suspended ceiling. This may consist of the roof and the suspended ceiling or the structural floor and suspended ceiling. The entire element should resist the impact of fire on its structural ability for as long as possible. The length of time this can be maintained is the fire resistance duration and will classify it in one of the classes shown.

## Test criteria

During the fire resistance test the laboratory will look out for adverse reaction as well as reporting on the following key criteria.

**R.** The structural element should not collapse or deflect beyond the permitted levels when subjected to the applied load.

**E.** The integrity of the room must be maintained. No breakthrough of flames is permitted.

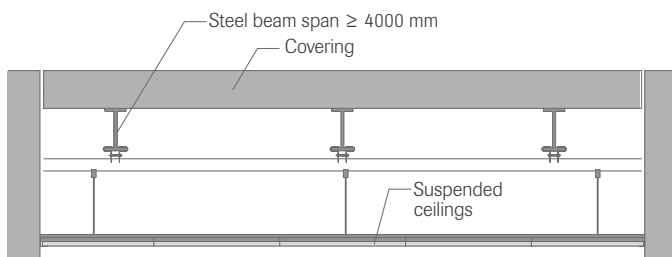
**I.** The temperature on the non-exposed side of the structural element must not rise more than 140 °K above ambient as an average measurement and no more than 180 °K at any one location.

If one of the above criteria is exceeded the test is terminated and the duration achieved prior to failure will dictate the appropriate fire resistance classification.

Due to the diversity of the various structural elements currently available it is impossible to test each individually. We therefore endeavor to test the worst case scenario in each generic construction type.

The following examples show constructions within a test furnace.

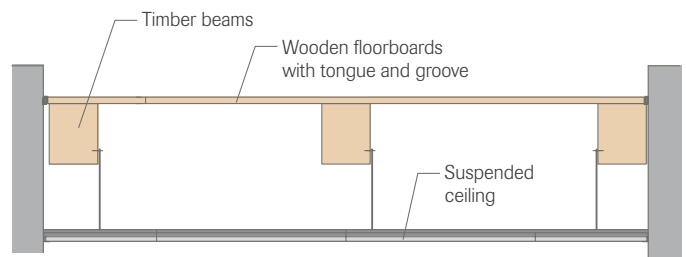
The illustration below (fig. 1) shows an example of a typical steel beam construction with the OWA ceiling below.



**Fig. 1: steel beam floor**

OWA Suspended ceilings can also be used to provide fire resistance to timber constructions.

The example below (fig 2) shows a timber floor construction with the OWA ceiling below



**Fig. 2: timber floor**

OWA have tested most standard floor and roof constructions with OWA Acoustic Ceilings to EN 13501-2 and have achieved up to REI 180 as shown in the following table.

Where an OWA acoustic ceiling is used to provide structural fire resistance it is important that the ceiling is constructed in the same manner as that used in the test. Failure to use the same components and layout may invalidate any certification and prevent us issuing a KIT declaration.

Escape and rescue routes often have services containing combustible materials installed below the structural slabs. For this reason we recommend the use of OWA acoustic self contained fire resistant ceilings (see table on page 6 and 7). With this type of ceiling it is possible to provide fire resistance of EI 30 to the services in the void as well as to the area below. The use of this system can help provide protected escape routes both from fire and smoke.



On the 1st of July 2013 the new European Construction Products Regulation (CPR) No. 305/2011 came into force and replaced the existing Construction Products Directive (CPD) 89/106/EU.

Part of the new regulation is the use of CE labelling for construction products that are regulated by a harmonised European Standard (hEN) or a European Assessment Document (EAD, formerly known as "ETAG").

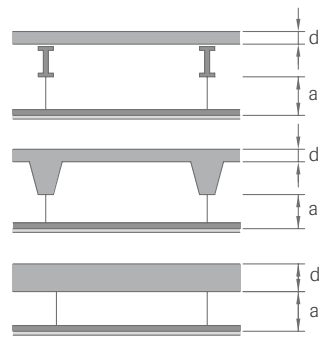
In addition a "Declaration of Performance" (DoP) will be issued for all CE labelled construction products. This declaration will show a number of key performance criteria as well as a unique identification code of the product type. This replaces the existing document known as a European Declaration of Conformity

The harmonised European Standard EN13964 (Suspended Ceilings Requirements and test Methods), covers a number of essential requirements including:

- reaction to fire
- mechanical safety
- acoustics
- others
- resistance to fire
- hygiene, health and environmental
- corrosion

**Important: in case of resistance to fire a CE label and DoP for the whole kit (ceiling tiles + subconstruction) is mandatory according to EN 13964 ZA 1.1**

## Loadbearing structure

**Important note:**

The kits listed in the following tables (KITs) can not be combined with all OWAacoustic surface patterns.

Tables 1 and 2 on pages 12 and 13 must be observed in connection with loadbearing structures types I - IV and fire resistance periods (REI 30 - REI 180).













Type I  
Steel beam floor with aerated concrete slabs

Type II  
Steel beam floor with reinforced concrete slabs

Type III  
Reinforced concrete floors including prestressed concrete structures

Type IV  
Timber structures

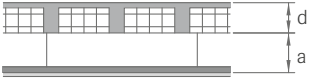
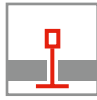

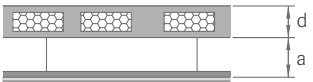
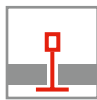
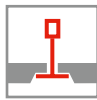

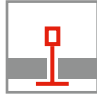
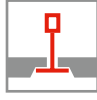
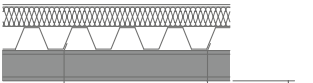
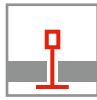

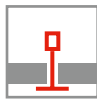
Please note that only the test certificates listed in the following tables are currently available. Expired documents and systems that are not listed are no longer available.

| Types of structure and KIT reference number                       | Min. thickness of slab (d) | Min. cavity height (a) | Type of suspended ceiling<br>OWAconstruct premium systems   |
|---|----------------------------|------------------------|---|
| Steel beam floor<br>KIT-16-01/2012 - S 3<br>KIT-16-01/2012 - S 3a | ≥ 120 mm                   | ≥ 200 mm               |  S 3                     |
| Steel beam floor<br>KIT-11-01/2008 - S 3<br>KIT-11-01/2008 - S 3a | ≥ 90 mm                    | ≥ 250 mm               |  S 3a                    |
|   |                            | ≥ 150 mm               |   |
|   |                            | ≥ 120 mm               |   |
| Steel beam floor<br>KIT-27-01/2011 - S 3<br>KIT-27-01/2011 - S 3a | ≥ 100 mm                   | ≥ 200 mm               |  S 3                     |
| Steel beam floor<br>KIT-28-01/2015 - S 3                          | ≥ 90 mm                    | ≥ 250 mm               |  S 3                    |
| Steel beam floor<br>KIT-29-01/2018 - S 3                          | ≥ 90 mm                    | ≥ 250 mm               |  S 3                   |
| Steel beam floor<br>KIT-24-01/2014 - S 3                          | ≥ 90 mm                    | ≥ 250 mm               |  S 3 with mineral wool |
| Steel beam floor<br>KIT-17-01/2013 - S 15 cliq                    | ≥ 90 mm                    | ≥ 230 mm               |  S 15 cliq             |
| Steel beam floor<br>KIT-18-01/2011 - S 15a cliq                   | ≥ 100 mm                   | ≥ 200 mm               |  S 15a cliq            |
| Steel beam floor<br>KIT-19-01/2011 - S 18p/S 6a                   | ≥ 100 mm                   | ≥ 200 mm               |  S 18p<br>= binder     |
| Steel beam floor<br>KIT-20-01/2013 - S 1                          | ≥ 90 mm                    | ≥ 185 mm               |  S 1                   |
| Steel beam floor<br>KIT-30-01/2016 - S 7                          | ≥ 90 mm                    | ≥ 250 mm               |  S 7                   |
| Steel beam floor<br>KIT-25-01/2014 - S 15 b                       | ≥ 90 mm                    | ≥ 250 mm               |  S 15 b                |

**Applicability of the tile designs depends on table 1 (page 12) and table 2 (page 13)**

| OWAcoustic tiles *                    |                     |   | Resistance to fire  |  | Tested hanger (max. distance) |                    |                | Special characteristics  |
|---------------------------------------|---------------------|---|---------------------|--|-------------------------------|--------------------|----------------|--|
| Module                                | Thickness           | Product surfaces  | Classification min. | Test report no.  | Centre of main tee            | Centre of hangers  | Hanger OWA-no. |  |
| 625 x 625 mm<br>600 x 600 mm          | 14 mm nom.<br>15 mm | Product surfaces in table 1 (page 12)                                       | <b>REI 120</b>      | No. 297270/7130/CPD<br>... and further reports                 | 1250 mm<br>1200 mm            | 1250 mm<br>1200 mm | See page 11    |  |
|                                       |                     |   | <b>REI 90</b>       | PB III/08-191-1Ä   | 1250 mm<br>1200 mm            | 1250 mm<br>1200 mm |                |  |
|                                       |                     |   | <b>REI 60</b>       |  |                               |                    |                |  |
|                                       |                     |   | <b>REI 30</b>       |  |                               |                    |                |  |
| 1250 x 625 mm                         | 15 mm               | Product surfaces in table 1 (page 12)                                       | <b>REI 60</b>       | Nr. 282291/6095/CPD<br>... and further reports                 | 625 mm                        | 1250 mm            |                |  |
|                                       | 14 mm nom.          | Product surfaces in table 1 (page 12)                                       |                     |  |                               |                    |                |  |
| 625 x 625 mm<br>600 x 600 mm          | 15 mm<br>20 mm      | Product surfaces in table 1 and 2 (pages 12/13) excepting Sinfonia Silencia | <b>REI 60</b>       | PB 3.2/14-338-1,<br>PB 3.2/15-411-1<br>... and further reports | 1250 mm<br>1200 mm            | 1250 mm<br>1200 mm | See page 11    |  |
| 625 x 625 mm<br>600 x 600 mm          | 20 mm               | Product surfaces in table 1 and 2 (pages 12/13)                             | <b>REI 45</b>       | PB 3.2/17-345-1<br>... and further reports                     | 1250 mm<br>1200 mm            | 1250 mm<br>1200 mm | See page 11    |  |
| 625 x 625 mm<br>600 x 600 mm          | 15 mm               | Product surfaces in table 1 (page 12)                                       | <b>REI 120</b>      | PB 3.2/13-320-1<br>... and further reports                     | 625 mm                        | 750 mm             | See page 11    |  |
| 625 x 625 mm<br>600 x 600 mm          | 15 mm               | Product surfaces in table 1 (page 12)                                       | <b>REI 90</b>       | PB 3.2/13-169-1<br>... and further reports                     | 625 mm<br>600 mm              | 1250 mm<br>1200 mm | See page 11    |  |
| 625 x 625 mm<br>600 x 600 mm          | 14 mm nom.<br>15 mm | Product surfaces in table 1 (page 12)                                       | <b>REI 90</b>       | No. 285878/6379/CPD<br>... and further reports                 | 625 mm<br>600 mm              | 1250 mm<br>1200 mm | See page 11    |  |
| ≤ 2050<br>(tile length) x<br>312.5 mm | 15 mm               | Product surfaces in table 1 (page 12)                                       | <b>REI 90</b>       | No. 285879/6380/CPD<br>... and further reports                 | ≤ 2130 mm                     | 750 mm             | See page 11    | - C profile no. 36/70<br>- only in combination with surface-mounted luminaires |
| 625 x 625 mm<br>600 x 600 mm          | 15 mm               | Product surfaces in table 1 (page 12)                                       | <b>REI 90</b>       | PB 3.2/13-018-1<br>... and further reports                     | 1250 mm<br>1200 mm            | 1250 mm<br>1200 mm | See page 11    |  |
| 2400 x 1200 mm                        | 20 mm               | Product surfaces in table 2 (page 13)                                       | <b>REI 60</b>       | PB 3.2/15-411-2<br>... and further reports                     | 1000 mm                       | 1000 mm            | See page 11    |  |
| 625 x 625 mm<br>600 x 600 mm          | 15 mm               | Product surfaces in table 1 (page 12)                                       | <b>REI 30</b>       | PB 3.2/13-322-1<br>... and further reports                     | 1250 mm<br>1200 mm            | 1250 mm<br>1200 mm | See page 11    |  |

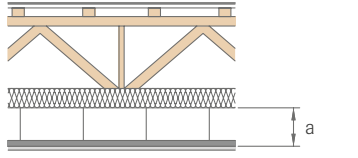


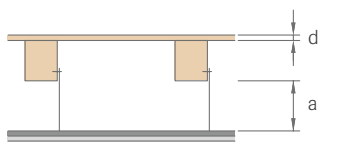

\* Please also see the corresponding data sheets

| Loadbearing structure  |   |                            |                        | Type of suspended ceiling   |
|--|---|----------------------------|------------------------|---|
|  | Types of structure and KIT reference number   | Min. thickness of slab (d) | Min. cavity height (a) | OWAconstruct premium systems  |
|    | <b>Reinforced block floor</b><br>KIT-21-01/2013 - S 3<br>KIT-21-01/2013 - S 3a                                | $\geq 200 \text{ mm}$      | $\geq 250 \text{ mm}$  |  S 3<br> S 3a     |
|    | <b>Reinforced concrete hollow slab</b><br>KIT-10-01/2007 - S 3<br>KIT-10-01/2007 - S 3a                       | $\geq 250 \text{ mm}$      | $\geq 250 \text{ mm}$  |  S 3<br> S 3a    |
|  | <b>Composite floor</b><br>KIT-22-01/2009 - S 3<br>KIT-22-01/2009 - S 3a                                       | $\geq 70 \text{ mm}$       | $\geq 200 \text{ mm}$  |  S 3<br> S 3a |
|  | <b>Steel roof construction with corrugated steel sheets insulation (Foamglas)</b><br>KIT-13-01/2007 - S 3     | -                          | $\geq 570 \text{ mm}$  |  S 3   |
|  | <b>Steel roof construction with corrugated steel sheets insulation + mineral wool</b><br>KIT-23-01/2014 - S 3 | -                          | $\geq 600 \text{ mm}$  |  S 3   |

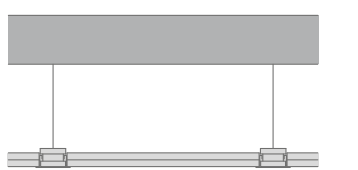
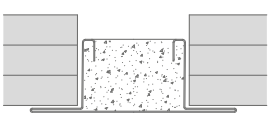
Applicability of the tile designs depends on table 1 (page 12) and table 2 (page 13)

| OWAcoustic tiles *           |                     |                                       | Resistance to fire  |  | Tested hanger (max. distance) |                    |                | Special characteristics |
|------------------------------|---------------------|---------------------------------------|---------------------|--|-------------------------------|--------------------|----------------|-------------------------|
| Module                       | Thickness           | Product surfaces                      | Classification min. | Test report no.                                | Centre of main tee            | Centre of hangers  | Hanger OWA-no. |                         |
| 625 x 625 mm<br>600 x 600 mm | 14 mm nom.<br>15 mm | Product surfaces in table 1 (page 12) | <b>REI 120</b>      | No. 311867/8160/CPR<br>... and further reports | 1200 mm                       | 900 mm             | See page 11    |                         |
| 625 x 625 mm<br>600 x 600 mm | 15 mm               | Product surfaces in table 1 (page 12) | <b>REI 180</b>      | No. 234562/2488/CPD<br>... and further reports | 1250 mm<br>1200 mm            | 1250 mm<br>1200 mm | See page 11    |                         |
| 625 x 625 mm<br>600 x 600 mm | 14 mm nom.<br>15 mm | Product surfaces in table 1 (page 12) | <b>REI 120</b>      | No. 281196/6048/CPD<br>... and further reports | 1250 mm<br>1200 mm            | 1250 mm<br>1200 mm | See page 11    |                         |
| 625 x 625 mm<br>600 x 600 mm | 14 mm nom.<br>15 mm | Product surfaces in table 1 (page 12) | <b>REI 90</b>       | PB 3611/427/07-CR<br>... and further reports   | 625 mm<br>600 mm              | 1250 mm<br>1200 mm | See page 11    |                         |
| 625 x 625 mm<br>600 x 600 mm | 15 mm               | Product surfaces in table 1 (page 12) | <b>REI 30</b>       | PB 3.2/14-140-1                                | 625 mm<br>600 mm              | 1250 mm<br>1200 mm | See page 11    | 97/30<br>97/32          |

\* Please also see the corresponding data sheets

| Loadbearing structure  |  |   |                        | Type of suspended ceiling   |
|--|--|---|------------------------|---|
|  | Types of structure and KIT reference number                                      | Min. thickness of slab (d)  | Min. cavity height (a) | OWAconstruct premium systems  |
|  | <b>Timber roof construction</b><br>KIT-01-01/2005 - S 3<br>KIT-01-01/2005 - S 3a | -   | ≥ 250 mm               |  S 3<br> S 3a |
|  | <b>Timber floor</b><br>KIT-07-01/2008 - S 3                                      | timber beam<br>wooden particle board<br>18 mm<br>+<br>gypsum fireboard<br>12.5 mm<br>alternative screed structure | ≥ 245 mm               |  S 3   |

Suspended ceiling | EI 30 self-contained fire protection units to EN 13501-2

| Ceilings with independent fire resistance  |   |  |  | Type of suspended ceiling   |
|--|---|--|--|---|
| EI 30 (a ↔ b)<br>[a = above, b = below]  | Types of structure and KIT reference number   |  |  | OWAconstruct premium systems  |
|  | Homogeneous OWAacoustic ceiling<br><b>F 30 barriere</b><br>fire resistance from above and below<br>tiles demountable<br><b>KIT-101-01/2002 - barriere B</b> | <b>F 30 barriere B</b><br>clear span, concealed grid,<br>demountable<br>element length<br>≥ 1500 - 2100 mm |  |  |



Applicability of the tile designs depends on table 1 (page 12) and table 2 (page 13)

| OWAcoustic tiles *           |                     |                                       | Resistance to fire  |   | Tested hanger (max. distance) |                    |                | Special characteristics |
|------------------------------|---------------------|---------------------------------------|---------------------|---|-------------------------------|--------------------|----------------|-------------------------|
| Module                       | Thickness           | Product surfaces                      | Classification min. | Test report no.   | Centre of main tee            | Centre of hangers  | Hanger OWA-no. |                         |
| 625 x 625 mm<br>600 x 600 mm | 14 mm nom.<br>15 mm | Product surfaces in table 1 (page 12) | <b>REI 30</b>       | PB 3222/3473-CR<br>... and further reports<br>PZ_3918_0633_CR<br>PZ_3478_731_07 | 1250 mm<br>1200 mm            | 1250 mm<br>1200 mm | See page 11    |                         |
| 625 x 625 mm<br>600 x 600 mm | 15 mm               | Product surfaces in table 1 (page 12) | <b>REI 30</b>       | 2007 - Efectis<br>RO 574 (E)<br>... and further reports                         | 1250 mm<br>1200 mm            | 1250 mm<br>1200 mm | See page 11    |                         |

\* Please also see the corresponding data sheets

| OWAcoustic tiles/ elements  |           |                                       | Resistance to fire    |   | Tested hanger (max. distance)                             |                   |                | Special characteristics   |
|---|-----------|---------------------------------------|-----------------------|---|---|-------------------|----------------|---|
| Module  | Thickness | Product surfaces                      | Classification min.   | Test report no.   | Centre of main tee  | Centre of hangers | Hanger OWA-no. |   |
| Width:<br>300 mm,<br>312.5 mm<br><br>length:<br>1800 mm,<br>2000 mm,<br>2100 mm | 44 mm     | Cosmos/N<br>Cosmos/O<br>Constellation | <b>EI 30</b><br>a ↔ b | PB 3617/3831<br>PB 3619/3851<br>MPA Braunschweig<br>... and further reports | Clear span<br>≤ 2100 mm<br>and<br>bandraster<br>≤ 2150 mm | 625 mm            | 79/75          | Wall perimeter<br>no. 51/25<br><br>for further<br>details see<br>OWA brochure<br>no. 9915 e |

## Light fittings

When installing recessed luminaires in an OWAacoustic fire resistant ceiling an OWAacoustic fire box should be installed to ensure continuity of fire resistance. It is important to ensure that the performance of the fire box matches that of the installed OWAacoustic ceiling.

### Recessed light fittings



OWAcoustic standard ceilings  
(steelbeam floor, timber roof construction, steel roof construction, timber floor)

OWAcoustic ceilings with recessed light fittings offer the same fire resistance as closed OWAacoustic ceilings, if the recessed light fittings are encased in a 15 mm thick MINOWA® firebox.

For details, see OWA installation Guide no. 9801 e.

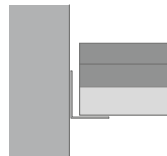
When using 40 mm thick OWAacoustic premium tiles, 40 mm thick MINOWA® tiles should be used and for 20 mm thick OWAacoustic premium tiles, 21mm thick MINOWA® tiles should be used.

Also see information sheet on fire protection enclosure no. 9905 e.

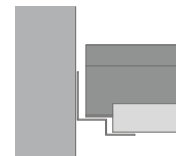
| Thickness OWAacoustic tiles | Thickness firebox |
|-----------------------------|-------------------|
| 14 mm, 15 mm                | 15 mm             |
| 20 mm                       | 21 mm             |
| ≥ 40 mm                     | 40 mm             |

## Perimeter trims

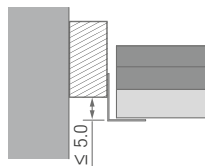
For fire resistant ceilings the perimeter trims should be installed in accordance with corresponding test report. Only approved fire resistant wall fixings should be used (ETA – European Technical Approval). Fixing centre ≤ 250 mm.



Standard wall perimeter  
for all standard ceilings

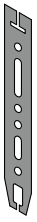


Wall perimeter  
for Contura ceilings S 3a

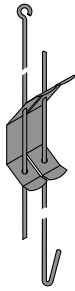


Wall perimeter  
with shadow gap

## Hangers and suspensions



No. 11  
Hangers for  
**exposed** systems



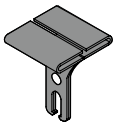
No. 12/.../...\*  
Double-adjustable hangers  
**exposed** systems



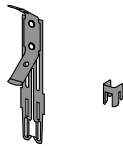
Pre-stressed wire  
 $\varnothing \geq 2.0$  mm; fixing ends are  
bound at least 3 times



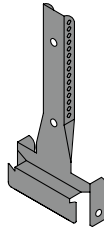
No. 17/45  
Nonius hangers for  
**exposed** systems



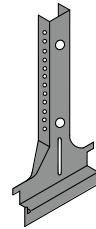
No. 90  
Hanger clips, adjustable  
for steel beams



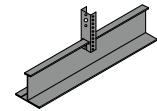
No. 12/44\*  
"Click", adjustable hangers



No. 2001  
OWAplan



No. 79/...  
Bandraster system



No. 09/10  
Nonius hanger

\* **Adjustable hangers** are **not** to be used with timber constructions REI 90.

## Top fixings

Only approved fire resistant top fixings suitable for the substrate should be used (ETA – European Technical Approval).

## Verification

For fire resistance requirements relating to OWAacoustic ceilings, it is recommended that you clarify the design for the relevant requirement prior to ordering and installing the ceiling.

When placing an order, please request the documents from your dealer by providing a completed checklist (download right). This is required in order to provide the correct documents (DoP, CE-KIT declaration).

OWA fire protection documents are only valid if OWAacoustic-tiles and original OWAconstruct system components (as tested) are used.

Table 1

| <b>Product surfaces<br/>for all KITs</b> | <b>Reinforced concrete/<br/>steel beam floor:<br/>fire resistance classification<br/>REI in accordance with<br/>EN 13501-2 up to *</b> | <b>Timber beam floor/gang-nail trusses/<br/>light roofs:<br/>fire resistance classification<br/>REI in accordance with<br/>EN 13501-2</b> |
|--|--|---|
| Bamboo                                   | 180  | 30  |
| Constellation                            | 180  | 30  |
| Cosmos                                   | 180  | 30  |
| Creaprint Constellation                  | 180  | 30  |
| Finetta                                  | 180  | 30  |
| Harmony                                  | 180  | 30  |
| Janus (Cosmos, Constellation)            | 180  | 30  |
| NEW Sandila                              | 180  | 30  |
| Plain                                    | 180  | 30  |
| Regular perforated, 20 mm                | 180  | 30  |
| Sinfonia dB                              | 180  | 30  |
| Sinfonia Privacy                         | 180  | 30  |
| Sinfonia Reflecta                        | 180  | 30  |

\* Depending on system, tile dimensions and design

Table 2

| <b>Product surfaces<br/>for KIT 28-01/2015<br/>only for steel beam or concrete floors</b> | <b>Reinforced concrete/<br/>steel beam floor:<br/>fire resistance classification<br/>REI in accordance with<br/>EN 13501-2 up to *</b> | <b>Timber beam floor/gang-nail trusses/<br/>light roofs:<br/>fire resistance classification<br/>REI in accordance with<br/>EN 13501-2</b> |
|---|--|---|
| Bolero  | 60   | -   |
| Brillianto A  | 60   | -   |
| Creaprint Sinfonia  | 60   | -   |
| Multi Alpha   | 60   | -   |
| Ocean   | 60   | -   |
| OWAlux  | 60   | -   |
| OWAplan <sup>°</sup>  | 60   | -   |
| RAW <sup>°</sup>  | 60   | -   |
| Sinfonia  | 60   | -   |
| Sinfonia Balance  | 60   | -   |
| Sinfonia Humancare  | 60   | -   |
| Sinfonia Silencia <sup>°2</sup>   | 45   | -   |

<sup>°</sup> Only applies to KIT-30-01/2016

<sup>°2</sup> Only applies to KIT-29-01/2018

\* Depending on system, tile dimensions and design





## Technical assistance

This brochure provides a very brief outline of European Standard EN 13501 and how OWAacoustic ceilings can help meet your fire resistance requirements.

If you require further information or assistance on any aspect of your proposed ceiling installation please contact us or visit our website.

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## Product warranties

The information provided in this leaflet is based on the standards and data available at the time of publication. Any performance, warranties or guarantees provided, expressed or implied, are subject to the exclusive use of OWA components and the installation of those components in accordance with our recommendations. Failure to adhere to these conditions will result in the invalidation of any performance claims, warranties or guarantees and rejection of any liability. OWA reserves the right to make any technical improvements to the products, systems or services without prior notice. **All goods and services are supplied in accordance with our current Terms and Conditions of Sale.** Errors excepted!



The information in this brochure is up-to-date at the time of publication. Errors and mistakes excepted. With the publication of this issue, all previous brochures no. 9500 eu/e are invalid. Please contact our competence team OWAconsult for specific advice. Our experts will be happy to answer your questions under the following contact details: tel: +49 93 73.2 01-4 44 or e-mail: info@owaconsult.de

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