

**Distributor:**

Spectra-Con Group Inc.
90 Venture Drive, Unit 8
Toronto, ON, M1B 3L6

Contact:

Thomas Stratan
647-456-4138
thomasstratan@spectra-con.com

Substitution Procedures:

- As the only non-American mineral fiber ceiling tile readily available in our market, the German manufactured OWA products will be exempt from potential tariffs.
- We are proposing our OWA products as an alternative on the basis of competitive market pricing and high acoustical performance.
- The Substitution will not affect the Contract Price and Contract Time.
- The Substitution will not affect the performance and warranty of other parts of the Work.
- We stock the products in large quantities at our warehouse in Scarborough.
- Recent product approvals: Muslim Wellness Centre LTC, Festing Toyota, Babcock Wardsville LTC, Roberts Library, Weston Memorial JPS, Essex Townhall Addition, Ecole Elementaire Paul Demers, Trent University LTC, Excelligent Milton LTC, Prince Edward County LTC.

Request for Substitution RE: Acoustical Panel Ceilings

Project: Connor Building Renovation

Specifying Consultant: Architecture 49

Consultant's Project No: CA0011757.0343

Specification Section: 09 51 13

Comparable:	Specified Product: Not specified	Proposed Alternate: OWAcliq 15/16
ASTM Class:	Intermediate Duty	Intermediate Duty
Material:	Galvanized Steel	Galvanized Steel
Profile:	Exposed Tee	Exposed Tee
Face Width:	15/16"	15/16"
Manufactured in:	USA	Germany
Maximum Deflection:	1/360 of the span	L/500 < 4mm

Refer to <https://www.owa.de/en/> for more information

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Specification Section: 09 51 13

Comparable:	Specified Product:	Proposed Alternate:
Product:	Not specified	OWA "Brillianto A"
Material:	Mineral Fiber	Bio-soluble mineral wool, free of asbestos and produced without formaldehyde 100 % recyclable
Panel Size:	24" x 48"	24" x 48"
Thickness:	1" (25 mm)	3/4" (19 mm)
Edge:	Square	Square
Manufactured in:	Not specified	Germany
Fire Performance:	CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less	CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less
NRC:	0.90	0.95
CAC:	26	30
Light Reflectance:	88	78

Refer to <https://www.owa.de/en/> for more information

System OWAcliq 15/16" Intermediate Duty

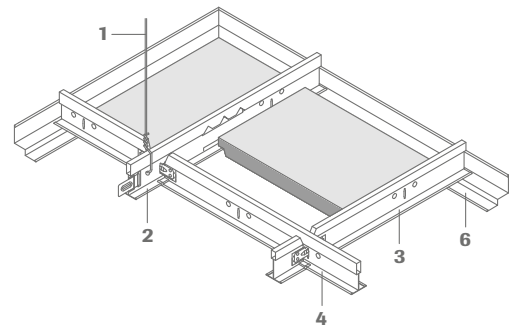
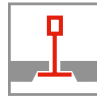
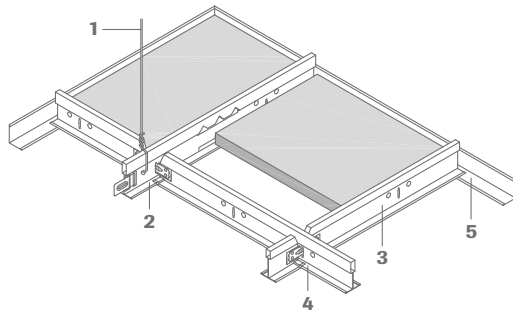


OWAcliq 15/16" Intermediate Duty
exposed

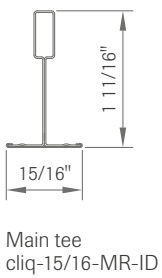
OWAlifetime collection

OWA

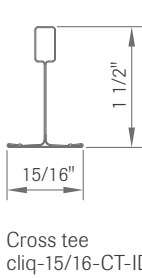
System OWAccliq 15/16" Intermediate Duty | Exposed



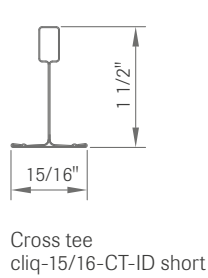
Section dimensions:



12' Main Runner



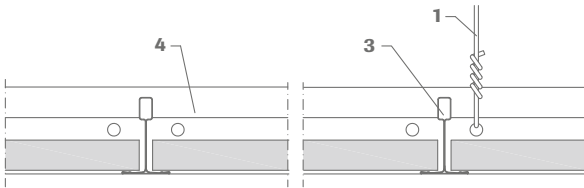
4' Cross Tee



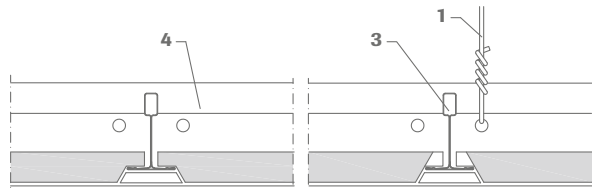
2' Cross Tee

- 1 Wire (by client)
- 2 Main tee cliq-15/16-MR-ID, slotted every 6"
- 3 Cross tee cliq-15/16-CT-ID, length 2'
- 4 Cross tee cliq-15/16-CT-ID, length 4'
- 5 Wall angle no. 51/24G
- 6 Shadow wall angle no. 50/15
- 7 Contura block no. 42/24

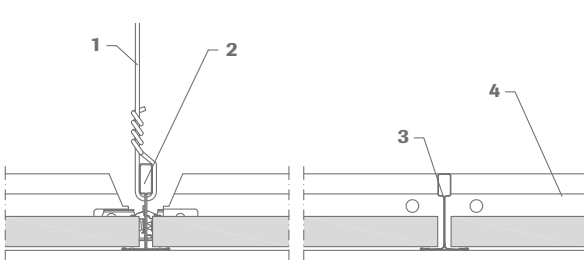
Cross-section of system with SQ tile:



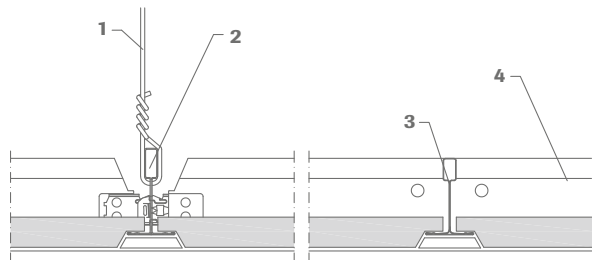
Cross-section of system with RE tile:



Section of system with SQ tile:



Section of system with RE tile:



Technical data | Mineral tiles

Module sizes

24" x 24", 48" x 24"

Edge details

SQ

RE 15/16"

Reaction to fire

OWAcoustic premium tiles: class 1 (ASTM E 84) | class A (ASTM E 1264)
OWAconstruct suspension parts: class 1 (ASTM E 84) | class A (ASTM E 1264)

Metal suspensions

All metal components listed are galvanized steel or white coated galvanized steel respectively.

Duty Rating

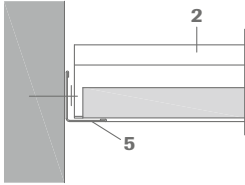
Intermediate Duty (ASTM C 635)

Suspension depth

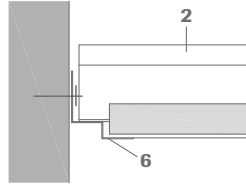
3" - 4" (depending on the existing structural ceiling) for ease of panel removal 5" is recommended

Wall angle details:

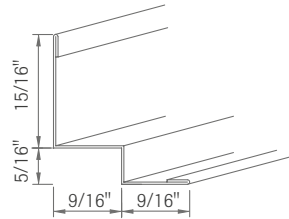
SQ tiles:



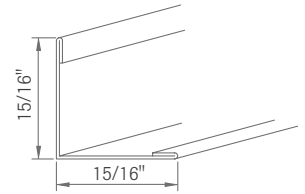
RE tiles:



Shadow mold no. 50/15



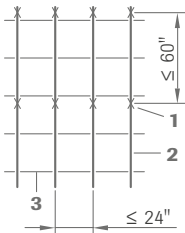
Wall angle no. 51/24G



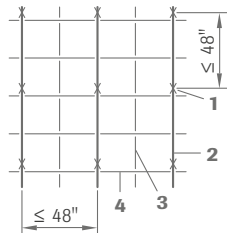
Wall Mould

For more information about installation, see [OWA-Installation Guide 9801 e](#).

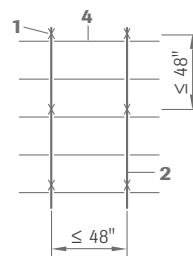
Installation examples:



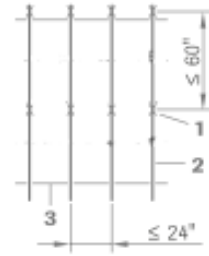
Module 24" x 24"



Module 24" x 24"



Module 48" x 24"



Module 24" x 96"

Advantages at a glance:

- easy installation of main tees and cross tees
- cross tees simply snap into place
- audible "click" confirms location
- load-bearing capacity tested in accordance with European and US standards
- proven OWA quality
- available worldwide via the global OWA distribution network
- meets LEED® standard regarding recyclability
- meets criteria for seismic design category C in accordance with ASTM E580 IBC with requirements according to ASTM E580/CISCA seismic construction handbook
- can be used with other panel products
- Intermediate Duty (ASTM C 635)

Description/rating per ASTM C-635		Pcs/ctn	LF/ctn	Weight lbs/ctn	Ctns/pallet
cliq-15/16-MR-ID	12' main tee, (Cliq system), 15/16", white	20	240	59	42
cliq-15/16-CT-ID	4' cross tee, 15/16", cliq end, white	60	240	55	50
cliq-15/16-CT-ID	2' cross tee, 15/16", cliq end, white	60	120	28	80
51/24G	12' wall angle, 15/16" x 15/16", white	30	360	48	60
50/15	12' shadow mold, 15/16" x 9/16" x 5/16" x 9/16", white	35	420	76	36

Material requirements per ft² (approximations):

Module sizes in inches

No.	Description	24" x 24"	48" x 24"
	Wire	0.06 piece	0.06 piece
cliq-15/16-MR-ID	Main tee	0.25 LF	0.25 LF
cliq-15/16-CT-ID	Cross tee short	0.25 LF	-
cliq-15/16-CT-ID	Cross tee long	0.50 LF	0.50 LF
51/24G	Wall angle (SQ tiles)	Depending on room size and shape	
50/15	Shadow wall angle (RE tiles)	Depending on room size and shape	
42/24	Contura block	Depending on room size and shape	

Weight per ft²:

	24" x 24"	48" x 24"
Suspension system approx.	0.24 lb/ft ²	0.18 lb/ft ²
Tile 5/8" approx.	0.92 lb/ft ²	0.92 lb/ft ²

System description: OWAconstruct system OWAcliq 15/16" Intermediate Duty

Quality requirements for mineral tiles:

OWAacoustic mineral tiles firmly bound with a primer coat on both sides. The tile is free from asbestos. No formaldehyde is added in the manufacturing process of the mineral tiles. The mineral wool used for the manufacture of the tile is bio-soluble. The criteria for non-classification as a carcinogenic substance in accordance with the Chemicals Prohibition Ordinance (Section 1 Appendix, Paragraph 23 biopersistent fibres) are met and guaranteed by the RAL seal of approval for mineral wool. Verification of fitness for use according to EU CPR: CE marking and Declaration of Performance (DoP).

Mineral tiles accordance with EN 13964 and DIN 18177:

Air permeability class PM 1
Formaldehyde class FH 1
Emission of VOC TVOC 1

Installation should be carried out in accordance with the information contained in system leaflet OWAcliq 15/16" us and [OWA-Installation Guide 9801 e](#). All components are CE labeled.

Component list:

Wire (by client)
Main tee cliq-15/16-MR-ID
Cross tee short cliq-15/16-CT-ID
Cross tee long cliq-15/16-CT-ID
OWAconstruct wall angle no. 51/24G
OWAconstruct shadow wall angle no. 50/15
Contura block no. 42/24

Grid LEED Information

Green building materials: OWAconstruct grid system scores according to LEED®

This OWAconstruct suspension system is designed and produced by OWA and meets the current LEED® standards. As an environmentally friendly grid the materials used for production are completely recyclable.

OWAconstruct is manufactured in accordance with the European standard EN 13964 and is 100% recyclable.

In buildings trying to achieve LEED® accreditation, the recycled content of the building materials used must be at least 20% (post-industrial + post-consumer). Where this figure is exceeded the maximum number of points according to the LEED® criteria can be attained.

OWA continually strive to achieve the optimum balance between the use of recycled materials, conservation of resources and the production of high quality performance products. We have now increased the post consumer recycled content of our grid to 23%.

When calculated in accordance with LEED® criteria the post industrial recycled content is now 27%.

The OWAconstruct grid production is continually monitored by both internal and external checks and the increase in recycled content has been achieved without sacrificing quality or performance.

* Post-industrial is the industrial waste from production. Post-consumer represents the end of product life, where the consumer can longer use the product for its intended use.



Certified Management Systems

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.** Subject to alterations!



The information in this brochure is up-to-date at the time of publication. Subject to alterations. 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 9373 201-444 or e-mail: info@owaconsult.de

OWA USA Corporation

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(800) 487-4308 | usa@owa-ceilings.com
www.owa-ceilings.com

Brochure
OWAcliq 15/16"-ID us
022400

General guidance

Our mineral tiles are manufactured in Germany according to the highest production standards and are subject to constant quality controls. This guarantees constant high quality of the materiality and performances of our products, which are tailored to the specific needs of the application area. The following section shows a general guidance of the main features of our products.

Dimensions (nom.) [Inches]

The dimensions (length x width x thickness) refers to the grid dimension of the ceiling system. Depending on the version the manufacturing dimensions can differ.

PU

Packaging unit (pieces/carton)

NRC (Noise Reduction Coefficient)

Specifies the absorption properties – viz. the degree of sound reflection – of materials in a closed space according to **american** standard ASTM E 1264. Values acc. to manufacturers declaration. Measured and calculated according to ASTM C423.

NRC*

Measured according to EN ISO 354:2003 | EN 16487. Calculated according to ASTM C423.

Absorption class

Absorption classes according to EN ISO 11654 appendix B:

A ($\alpha_w = 0.90; 0.95; 1.00$) | **B** ($\alpha_w = 0.80; 0.85$) | **C** ($\alpha_w = 0.60; 0.65; 0.70; 0.75$)

D ($\alpha_w = 0.30; 0.35; 0.40; 0.45; 0.50; 0.55$) | **E** ($\alpha_w = 0.15; 0.20; 0.25$)

not classified ($\alpha_w = 0.00; 0.05; 0.10$)

CAC (Ceiling Attenuation Class)

Specifies the sound insulation properties – viz. the room to room sound transmission through the common cavity – of a ceiling system according to the american standard ASTM E 1414. Values acc. to manufacturers declaration. Measured and calculated according to ASTM E1414.

CAC*

Measured according to ISO 10848-2. Calculated according to ASTM E1414.

Humidity resistance

The mineral tiles can temporary be subjected to the stated values without sagging. For permanent moisture load use special tiles (Mavroc®).

Cleanroom class

Many of our ceilings meet six of the nine classes that are defined via the maximum limits specified in EN ISO 14644-1 (ISO classes 4 – 9). This means that these ceiling systems are qualified for many clean room areas and even the highest risk areas in the healthcare sector.

Washability

Washability tested according to ASTM D4828.

Scrubbability

Scrubbability tested according to ASTM D2486.

Mold and mildew

Mold and mildew resistance tested according to ASTM D 3273.

Resistance to fire (up to)

Structural elements based on EN 13501-2:2016-12 encompass the whole structural element and not just the suspended ceiling. This is why this value is dependent on the chosen system, dimension, soffit and other project specific factors.

Weight approx. (lbs/sqft)

Subject to fluctuations of raw materials and production processes.

Weight approx. (lbs/carton)

Subject to fluctuations of raw materials and production processes.

Recyclability

All tiles produced from 1999 are 100 % recyclable in the course of the OWA green circle.

Recycled content

Our products have an up to 50 % recycled content (depending upon type).

Low VOC emissions

Total VOC after 28 day $\leq 50\mu\text{g}/\text{m}^3$

Warranty (years)

Terms and conditions see guaranty bond.

Legal notice

The printing-related colour and quality variations in this catalogue may result in deviations to the original product. A binding product selection should therefore always be made based on an original sample. All details and technical information in these brochures or other publications that relate to OWA ceiling systems are based on test results that were achieved under laboratory conditions. It is the customer's responsibility to ensure that this information is appropriate for their specific application. All system-related data and statements correspond to the current state of technology. They assume the exclusive application of OWA products and their interdependent behaviour which is confirmed by internal and external testing. If they are used in combination with non-OWA products, any warranties or guarantees are invalidated and liability will not be accepted. Subject to technical changes for the purpose of product or system updates. Subject to technical changes without prior announcement. Our general sales, delivery and payment terms and conditions apply. Prices are subject to change without notice.

Subject to mistakes and printing errors.

Sustainability



EPD available

Listed at Mindful Materials

OWA ceiling systems contribute to certification according to

- **LEED** (Leadership of Energy and Environmental Design)
- **BREEAM** (Building Research Establishment Environmental Assessment Methodology)
- The **WELL** Building Standard



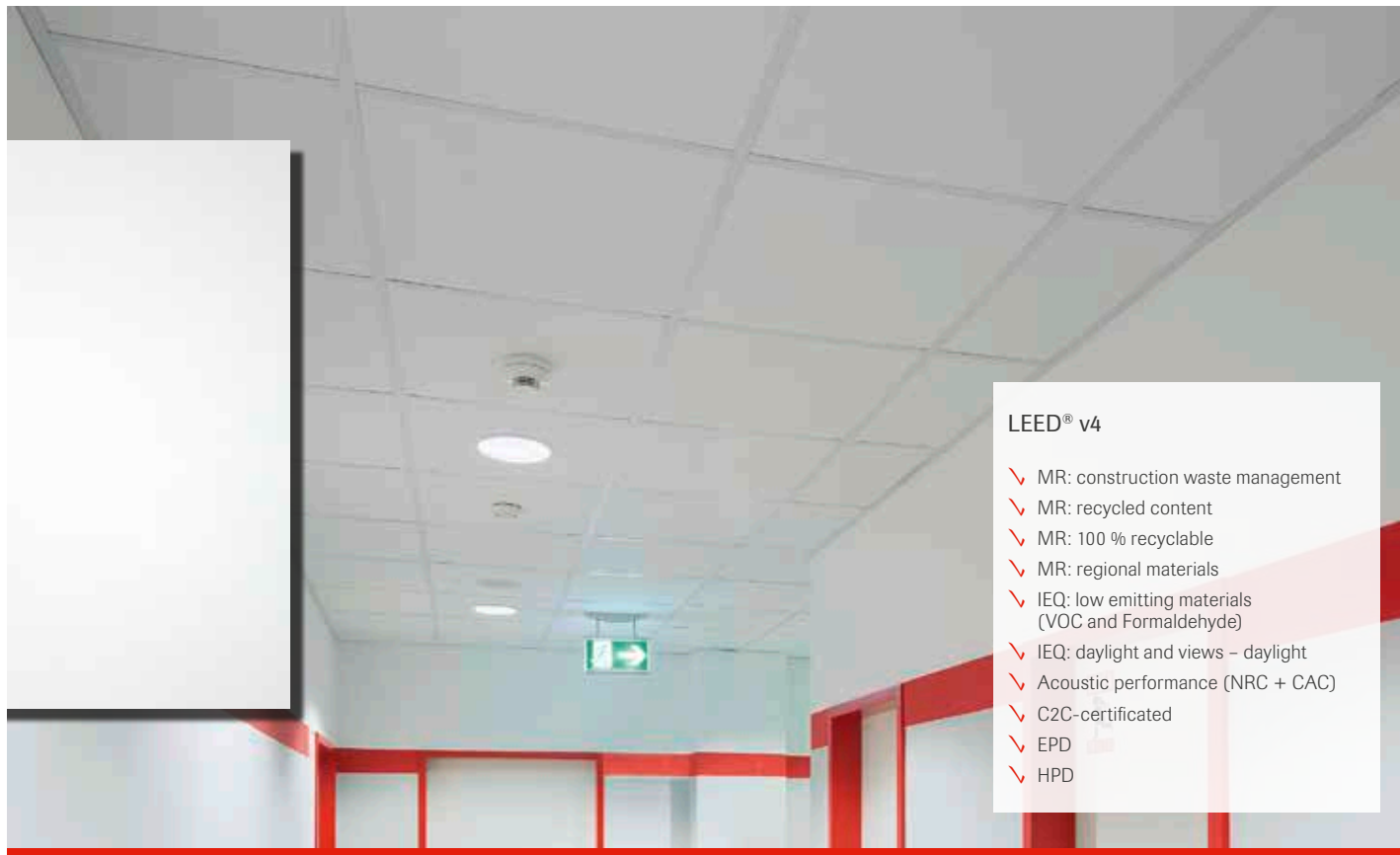
Odenwald Faserplattenwerk GmbH

Dr.-F.-A.-Freundt-Straße 3 | 63916 Amorbach | Germany

tel +49 9373 201-0 | info@owa.de

www.owa-ceilings.com

Brillianto A

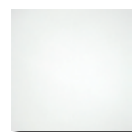


LEED® v4

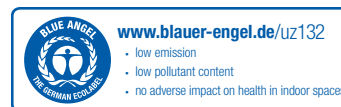
- ✓ MR: construction waste management
- ✓ MR: recycled content
- ✓ MR: 100 % recyclable
- ✓ MR: regional materials
- ✓ IEQ: low emitting materials (VOC and Formaldehyde)
- ✓ IEQ: daylight and views – daylight
- ✓ Acoustic performance (NRC + CAC)
- ✓ C2C-certificated
- ✓ EPD
- ✓ HPD

Material	Mineral tile, fleece covered ASTM E 1264 classification Type IV, Form 2, Pattern E
Reaction to fire	CAN/ULC-S102 (ASTM E84) class A (ASTM E 1264) Flame Spread Index 25 or less Smoke Developed Index 50 or less
Light reflection	approx. 78 (ISO 7724-2, ISO 7724-3)
Sound absorption	up to NRC = 0.95
Sound reduction*	up to CAC = 30 dB
Humidity resistance	up to 95 % RH
Resistance to fire*	up to REI 60 (EN 13501-2)
Cleanroom class	up to ISO 5 (ISO 14644-1)
Release of formaldehyde	OWAcoustic < 5 µg/m³ (ISO 16000) (Limit acc. to EN 13964 < 124 µg/m³)

Versions:



Brillianto A



www.blauer-engel.de/uz132

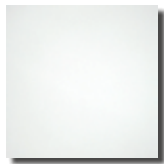
- low emission
- low pollutant content
- no adverse impact on health in indoor spaces



OWA green circle



* Dependent on dimension, design, system, soffit and other project specific factors
Detailed product features can be found on the following pages.



Item no.	Dimensions (nom.) [Inches]	PU	Sqft/carton	Cartons/pallet	NRC ASTM C423	NRC* EN ISO 11654	CAC ASTM E1414	CAC* ISO 10848-2	Humidity resistance	Cleanroom class	Mold and mildew ASTM D3273	Resistance to fire up to* ¹	Weight approx. [lbs/sqft]	Weight approx. [lbs/carton]	Recyclability	Recycled content	Low VOC emissions	Warranty (years)
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OWAcoustic® premium Brillianto A


*¹ dependent on soffit and other specific factors



Edge

SQ

For visible systems

OWAcliq 15/16 or OWAcliq 9/16



00091747	24 x 24 x 9/16		12	48	44	-	0.90	-	23 dB	95 % RH	ISO 5	✓	REI 45*	0.61	28.8	100 %	✓	✓	30
00091748	48 x 24 x 9/16		10	80	28	-	0.90	-	23 dB	95 % RH	ISO 5	✓	-	0.61	57.6	100 %	✓	✓	30

* OWAcliq 9/16 no resistance to fire

Edge

RE 15/16"

For visible systems

OWAcliq 15/16

00092465	24 x 24 x 9/16		12	48	44	-	0.90	-	23 dB	95 % RH	ISO 5	✓	-	0.61	28.7	100 %	✓	✓	30
00092464	48 x 24 x 9/16		10	80	28	--	0.90	-	23 dB	95 % RH	ISO 5	✓	-	0.61	48.1	100 %	✓	✓	30

Edge

RE 9/16"

For visible systems

OWAcliq 9/16

00092466	24 x 24 x 9/16		12	48	44	-	0.90	-	23 dB	95 % RH	ISO 5	✓	-	0.61	28.7	100 %	✓	✓	30
00092467	48 x 24 x 9/16		10	80	28	-	0.90	-	23 dB	95 % RH	ISO 5	✓	-	0.61	48.5	100 %	✓	✓	30


OWAcoustic® premium Brillianto A (3/4")



Edge

SQ

For visible systems

OWAcliq 15/16 or OWAcliq 9/16



00093153	24 x 24 x 3/4		10	40	36	-	0.95	-	30 dB	95 % RH	ISO 5	✓	REI 60*	0.82	32.8	100 %	✓	✓	30
00080422	48 x 24 x 3/4		8	64	22	-	0.95	-	30 dB	95 % RH	ISO 5	✓	-	0.82	52.5	100 %	✓	✓	30

* OWAcliq 9/16 no resistance to fire

