



CEILING
LIGHTING
AMBIENCE

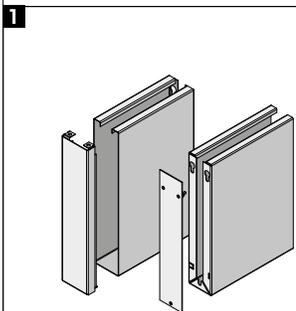
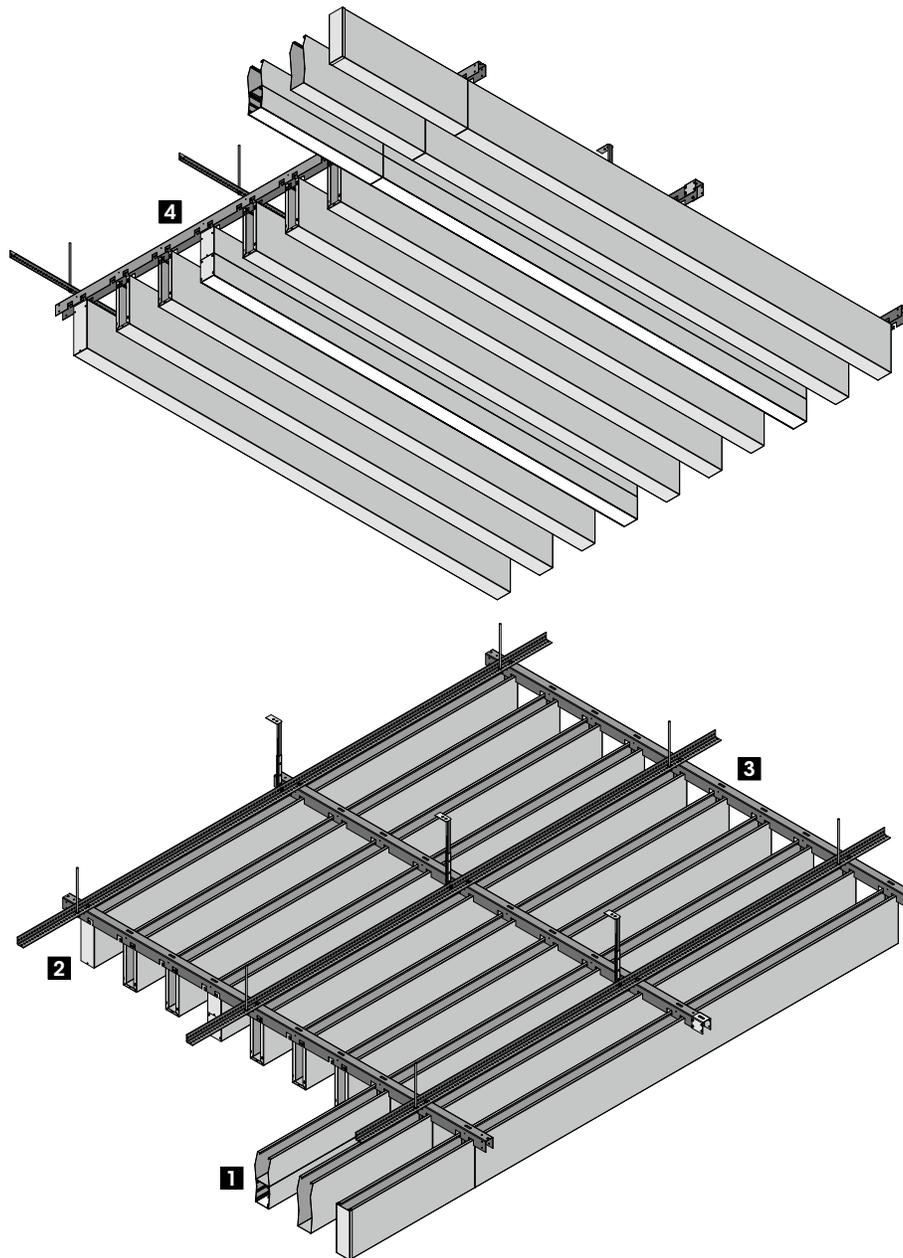


POLYLAM

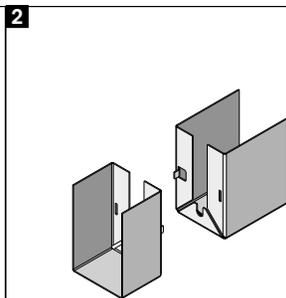
VERTICAL BAFFLE SYSTEM

PRODUCT DATA SHEET

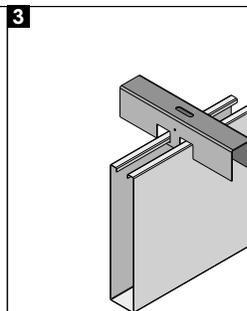
VERTICAL BAFFLE SYSTEM



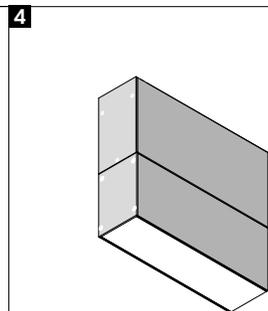
End cap / end cover with Flip



Connection detail



U-Carrier



coming soon!

VERTICAL BAFFLE SYSTEM

POLYLAM puts the architecture in the limelight. This modern vertical baffle system with acoustic properties offers varied designing options and can also be used in thermally-active building systems. The customer can choose the colour or get it printed in wood look to create individual ceiling configurations. Together with the linear OMEGA 60 lighting channel, it is possible to create completely new designs. The metal ceiling contributes directly to Green Building / LEED certification. durlum POLYLAM metal ceilings fall under the general Master Format section 09 50 00 ceilings. When perforated and with fleece, 09 51 33 Acoustical Metal Pan Ceilings is possible.

SURFACE

POLYLAM elements can be made out of galvanized sheet steel or aluminium. The surfaces are white powder-coated, similar to RAL 9016. Other RAL colours, coloured surfaces or imprinted surfaces are available, e.g. in DUROPLAN W wood design.

DIMENSIONS

Baffle width: 1 9/16", 2 15/32" or 3 15/16" [40, 63 or 100mm]
 Special requests: 1 3/16" - 3 15/16" [30-100mm]

Baffle length: 11 13/16" to 12'-5 19/32" [300 to 3800mm]

Baffle height: 3 15/16" to 1' 2 3/16" [100 to 360mm]
 Special requests: 1 3/16" to 2'-7 1/2" [30 to 800mm]

The module can be selected at random. The smallest module pitch is calculated by adding 1 31/32" [50mm] to the width of the baffle.

PERFORATION AND ACOUSTICS

Metal panels are available perforated with black acoustic fleece or non-perforated. durlum offers RV L6 perforation and RG L15 perforation as standard. For other available perforations please see durlum.us. The baffles may be designed with perforated sides as well as perforated underneath. Acoustical requirements will determine the number of baffles, their height and their width. Acoustic data sheets may be available upon request.

FIRE PERFORMANCE

In accordance with ASTM E84 Flame Spread Index for steel is 25 or less and Smoke Developed Index for steel is 50 or less.

GREEN BUILDING

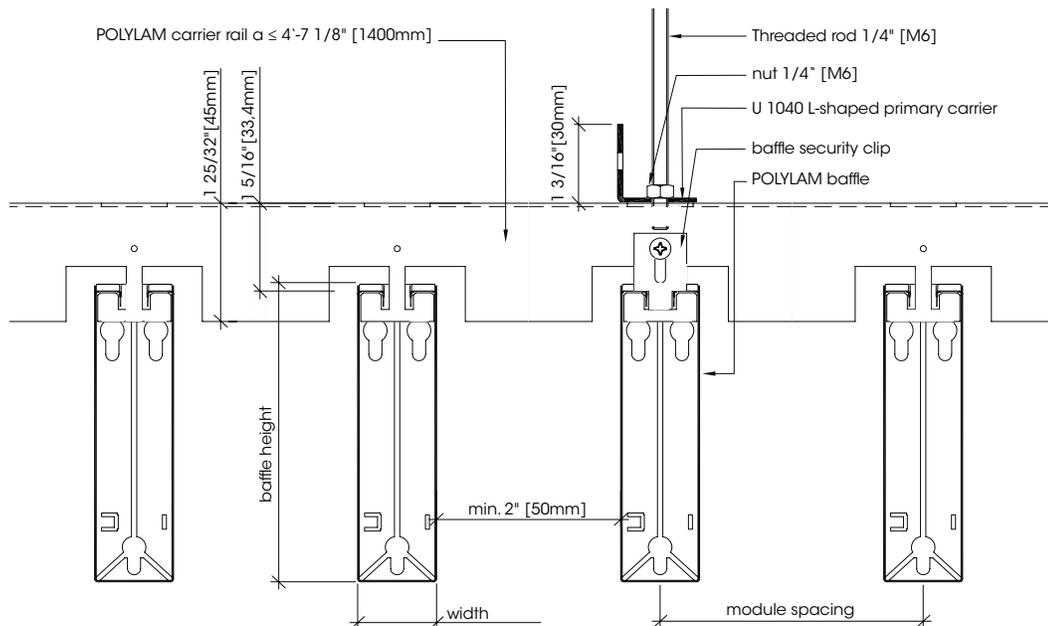
durlum metal panels contribute directly to LEED and other GREEN BUILDING certifications. Typically applicable credits under LEED v4:

- Recycled Content – post- & pre-consumer info
- VOC Emissions – conformity with VOC requirements
- Acoustic Performance – sound absorption with acoustic fleece
- Environmental Product Declaration – available

No substances as outlined in the US Living Building v.3 Red List are internationally used.

Learn more: greenbuilding@durlum.us

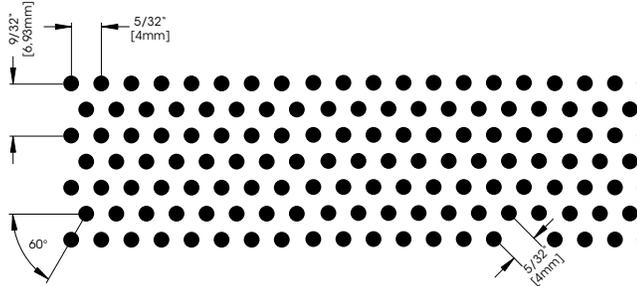
SYSTEM DETAILS



VERTICAL BAFFLE SYSTEM

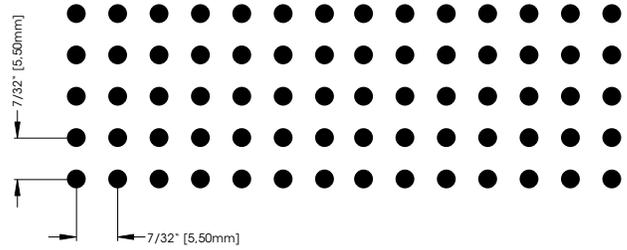
PERFORATIONS

Standard Perforation RV-L6



Hole diameter: 3/32" [2.1 mm]
 Open area: 25.00%
 Max. width of perforation: 4'-9 5/8" [1 464 mm]
 Max. plate width: 4'-7 1/8" [1 400 mm]

Standard Perforation RG-L15



Hole diameter: 3/32" [2.5 mm]
 Open area: 16.20%
 Max. width of perforation: 4'-8 3/4" [1 441 mm]
 Max. plate width: 4'-7 1/8" [1 400 mm]

IMPRINTED SURFACE WOOD PRINTS

Duroplan W150 Beech

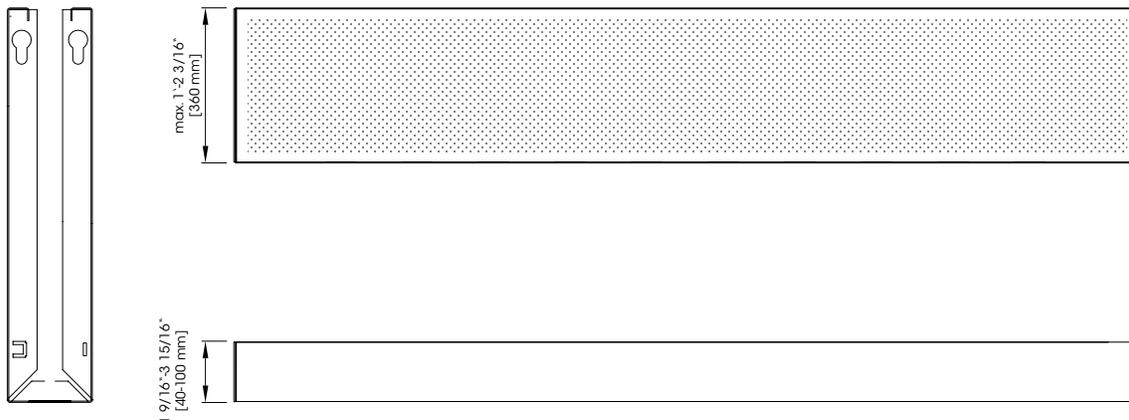


Duroplan W190 Whitewashed oak



Other graphics available upon request.

STANDARD PANEL



VERTICAL BAFFLE SYSTEM

INSTALLATION

The carrier rails run perpendicular to the baffle's axis and can be mounted via the perforated angle as cross bracing or directly via threaded rods or Nonius suspension rods. Baffle lengths less than 4'-11 1/16" [1 500mm] require two carrier rails. Baffles longer than 4'-11 1/16" [1 500mm] require an additional carrier rail, which is mounted in the centre.

The upstand at the front of the baffle has a tab in the centre; this controls alignment of the baffle in its longitudinal direction or allows for an optional threaded connection. The non-attached ends of the baffle can be closed via an end cover.

A profiled edge serves as the connection between carrier rail and baffle, that creates a secure and interlocking link. Depending on the load, it is possible to provide a security locking feature by using a retainer clip to connect the baffle with the carrier rail.

The system is also available with single point suspension, particularly for bare concrete ceilings or for rooms with low suspension height.

Please note

Installation must be carried out by qualified and trained staff according to the instructions for installation. These are available as download at www.durlum.us.

TECHNICAL STANDARDS

The parts comply with DIN EN 13964 as well as ASTM C635 and ASTM E1264.

Production complies with the TAIM and CISCA guidelines and the durlum works standards and is quality controlled by the TÜV according to ISO 9001:2008 and ISO 14001:2004.

CLEANING

As standard, durlum ceiling panels are made with an electrostatic polyester powder coating, thus providing them with a long-term finish. The powder-coated surface should always be cleaned wearing clean gloves. First clean it with a soft, dry cloth. If dirt cannot be removed by this procedure, the cloth can also be moistened, with the addition of a pH-neutral cleaner [household detergent], if necessary. Contact of the powder coating with both alkaline and acid substances must be avoided. Metallic powder coatings show a particularly sensitive reaction. Due to the risk of a change in hue or effect, for metallic coatings a suitability test must be performed.

More information: durlum.us

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