ENDURE™ LINEAR DATA SHEET

SYSTEM: ENDURE LINEAR | STYLE: EL9X0

Endure™ Linear is a tough, long-lasting ceiling system designed for a variety of applications, from adverse exterior environments to decorative interiors and more.

Endure™ Linear 9X0 is a wood-alternative, metal-alternative, or solid color virtually maintenance-free extruded polymer system with an integrated spacer and options for a matching or contrasting finish. The 9X0 ceiling system is attached to standard or corrosion-resistant carriers. Strips are installed end-to-end with perimeter, expansion, and fascia trims as required to create a continuous, monolithic appearance.

Endure™ Linear 9X0 is available in Endure™.

DESIGN

Endure™ Linear 9X0 is manufactured by the extrusion of Endure™, a proprietary engineered polymer blend, and is a fully accessible ceiling or wall system. Strips install via integrated attachment clips that affix over standard or corrosion-resistant carriers. .Primary Access Panels[1] can be coordinated with MEP locations and cut in-field.

ACOUSTICS

Endure™ Linear 9X0 is manufactured with integrated spacers between the strips and is considered **acoustically reflective**.

FIRE PERFORMANCE

Endure™ Linear 9X0 has been tested and meets **Class A** requirements as per ASTM E-84. Extrusions and carriers require no additional fire treatment.

SUSTAINABILITY

Endure™ Linear 9X0 contributes to sustainability initiatives like **WELL** and **LEED** through Indoor Advantage Gold certification.

SEISMIC

Endure™ Linear 9X0 is generally **exempt from seismic code requirements.** Local code should be consulted to determine additional seismic requirements.

RULON INTERNATIONAL
2000 RING WAY
ST. AUGUSTINE, FL. 32092

PHONE: 904-584-1400
WEB: RULONCO.COM
EMAIL: INFO@RULONCO.COM

SPECIFICATION

COMPONENTS

HANGERS

#12- gauge wire hangers, braided wire, struts, or aircraft cable (contractor-supplied).

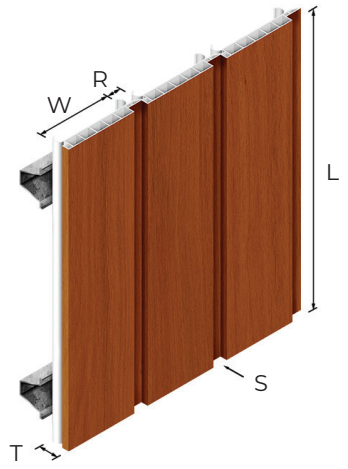
SUSPENSION SYSTEM

Rulon standard suspension carriers are manufactured from 0.7 mm thick galvanized steel. For swimming pool areas and other corrosive environments, a corrosion-resistant Rulon carrier is available to prevent deterioration of the suspension system.

SYSTEM PROFILES & DIMENSIONS

Endure™ Linear strip profiles are twin-walled to provide added structural strength, and to enhance thermal insulation. Standard widths/profiles are as follows:

SYSTEM	EL900	EL910
W (WIDTH)	3-1/4"	7-1/4"
R,S (REVEAL)	3/4" INTEGRAL SPACER	
T (THICKNESS)	1"	
L (LENGTH)	12', 14', 16', 18'	
E (EDGE)	SQUARE	



INSTALLATION

ATTACHMENT

Endure™ Linear 9X0 is attached to standard suspension carriers via the attachment legs integral to the back of the ceiling strips. Placing one attachment leg into the groove of the suspension carriers and then pressing on the face of the strip will cause it to snap into place.

SPECIAL CONDITIONS

Ceiling termination at a wall or soffit is accomplished using Rulon perimeter trim #870 (see drawing P9000002), double-stacked trim, or 4" fascia trims available for ceiling cloud conditions.

MEP INTEGRATION

Endure™ Linear 9X0 is designed to accomodate a wide range of MEPs including can (see drawing P9000008), linear (see drawing P9000009), and suspended lighting systems, air diffusers, and sprinkers.

SPECIFICATION

MATERIAL CHARACTERISTICS

DENSITY

96.8 lbs/cu.ft

YIELD STRESS & TENSILE STRENGTH

6,525 psi (Yield stress is the tension at which the Endure™ Linear strips will no longer return to their original shape). 6,525 psi (Tensile strength is the tension at which the Endure™ Linear strips break.)

MODULUS OF ELASTICITY

464,000 psi (MOE is the value used to determine the behavior of Endure™ Linear strips under various load conditions).

CHEMICAL RESISTANCE

Endure™ Linear has excellent resistance to many chemicals making it is suitable for a wide range of harsh environment applications. Additional information regarding specific chemical resistances is available upon request.

THERMAL RESISTANCE

Endure™ Linear has excellent thermal insulation characteristics compared to metal and other ceiling materials. It resists the formation of condensation and retards heat. The following is a list of specific thermal characteristics:

Insulating Properties

- Coefficient of Thermal Conductivity = 0.17W / °C × m
- Similar in value to Oak of the same thickness

Expansion & Contraction

- Coefficient of Linear Expansion = 55±5 × 10-6 / °C
- For every +10°F, an 18’ piece of Endure™ Linear will expand by .066” [2 mm] (approx. 1/16”)

IMPACT & GRAFFITI RESISTANCE

Endure™ Linear is naturally resistant to denting or marking from impacts. It is recommended that carrier spans be reduced to provide added stiffness to ceilings where regular impacts are likely. Similarly, where exterior conditions allow substantial wind loads to occur, carrier spans should be reduced for additional strength. Endure™ Linear is inherently anti-graffiti which can simply be removed with pressure washing. Graffiti prone installations should include appropriate carrier spacing, contact Rulon International Engineering.

CLEANING

Once installed, Endure™ Linear can be wiped clean with a damp cloth or a very mild detergent solution reduced for additional strength.

SPECIFICATION

FENESTRATION & WIND LOAD TESTING

Endure™ Linear profiles may meet ASTM E330/E330 M-14, Standard test method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference, tested up to 112.5 P.S.F. (207 MPH Wind Load). Contact Rulon Technical Department for Carrier/Compression Strut spacing based upon project specific criteria.

FOOD PROCESSING

Endure™ Linear's smooth surface meets USDA/FSIS guidelines for use in food processing areas.

FINISHES

ENDURE™ FINISHES

Endure™ Linear is available in a variety of standard colors, woodgrain films, and metallic films. A full range of finishes can be found at **rulonco.com/endure-fs**. Endure™ Linear colors are very stable for interior and exterior use, and will exhibit insignificant change or fading with time.

SHIPPING & STORAGE

SHIPPING

Endure™ Linear is shipped in full-box cartons either on skids or floor load depending on size of order.

STORAGE

Endure™ Linear shall be stored flat and level, either inside or outside. If material is stored outside and left on the skid(s), a tarp is required to cover the material to prevent water saturation.

SPECIFICATION

NOTES

SPECIAL NOTES

[1] Primary Access Panels are sections of a system that have been removed and assembled into a lift & shift panel for required-access locations.

TYPICAL DETAILS