

# The Great Lakes Construction Co.

**TRANSMITTAL  
No. 176**

925 Laidlaw Ave.  
Cincinnati, Ohio 45237

**PROJECT:** ODOT 150085 HAM 71-1.34                      **DATE:** October 30, 2017

**TO:** ODOT District 8    **REF:** Soundproofing O&M  
505 South SR 741    Line Item: #292.00 & #293.00  
Lebanon, OH 45036

**ATTN:** Marvin Lennon

WE ARE SENDING		SUBMITTED FOR:		ACTION TAKEN:	
<input type="checkbox"/>	Shop Drawings	<input type="checkbox"/>	Approval	<input type="checkbox"/>	Approved as Submitted
<input type="checkbox"/>	Letter	<input checked="" type="checkbox"/>	Your Use	<input type="checkbox"/>	Approved as Needed
<input type="checkbox"/>	Prints	<input type="checkbox"/>	As Requested	<input type="checkbox"/>	Returned after Loan
<input type="checkbox"/>	Change Order	<input type="checkbox"/>	Review and Comment	<input type="checkbox"/>	Resubmit
<input type="checkbox"/>	Plans	<input type="checkbox"/>		<input checked="" type="checkbox"/>	Submit
<input type="checkbox"/>	Samples	<b>SENT VIA:</b>		<input type="checkbox"/>	Returned
<input type="checkbox"/>	Specifications	<input checked="" type="checkbox"/>	Attached	<input type="checkbox"/>	Returned for Correction
<input checked="" type="checkbox"/>	Other: Soundproofing O&M	<input type="checkbox"/>	Separate Cover:	<input type="checkbox"/>	Due Date:

<u>SUBMITTAL</u>	<u>COPIES</u>	<u>DATE</u>	<u>DESCRIPTION</u>
TR85.15-176	1 pdf	10/30/2017	Soundproofing O&M, per sheet 365/555, Section 1.03C

**REMARKS**

CC: Joe Smithson, ODOT D8

**Signed:**

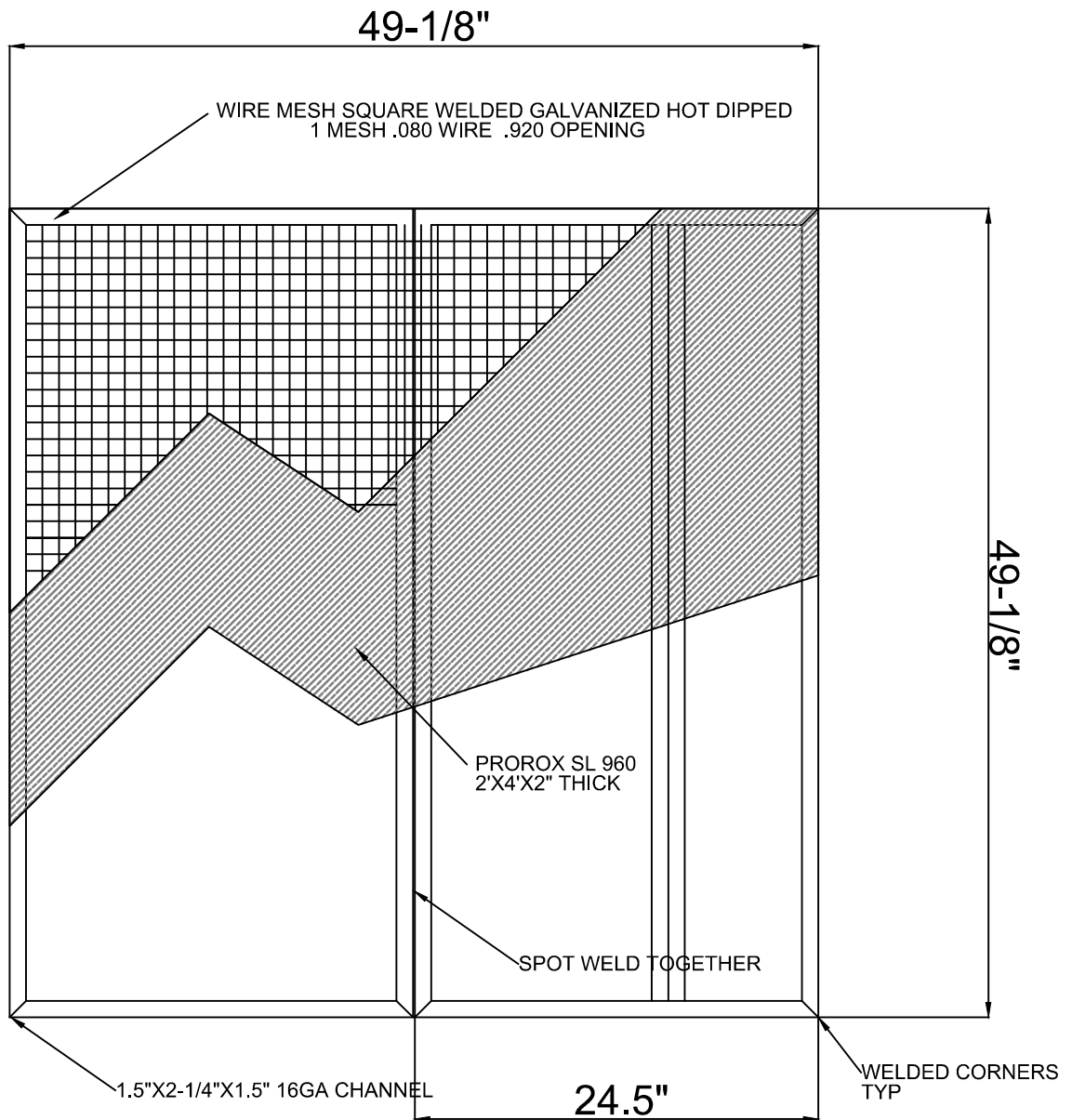


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Jacob D. Elmore.

# DeBra-Kuempel

Mechanical-Electrical  
An EMCOR Company

## SOUND PANEL ASSEMBLY DETAIL

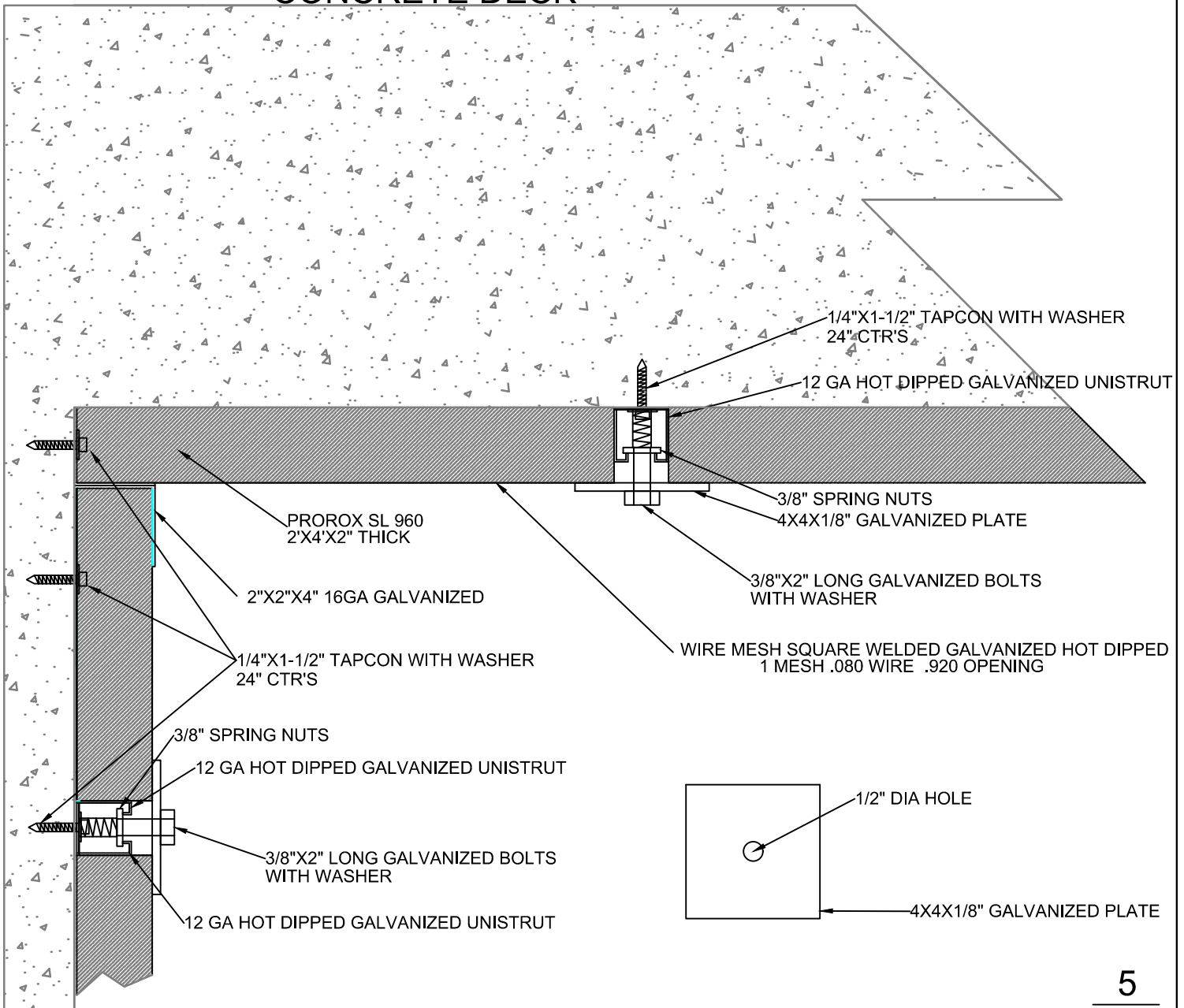


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## SOUND PANEL ASSEMBLY ROOF TO WALL DETAIL

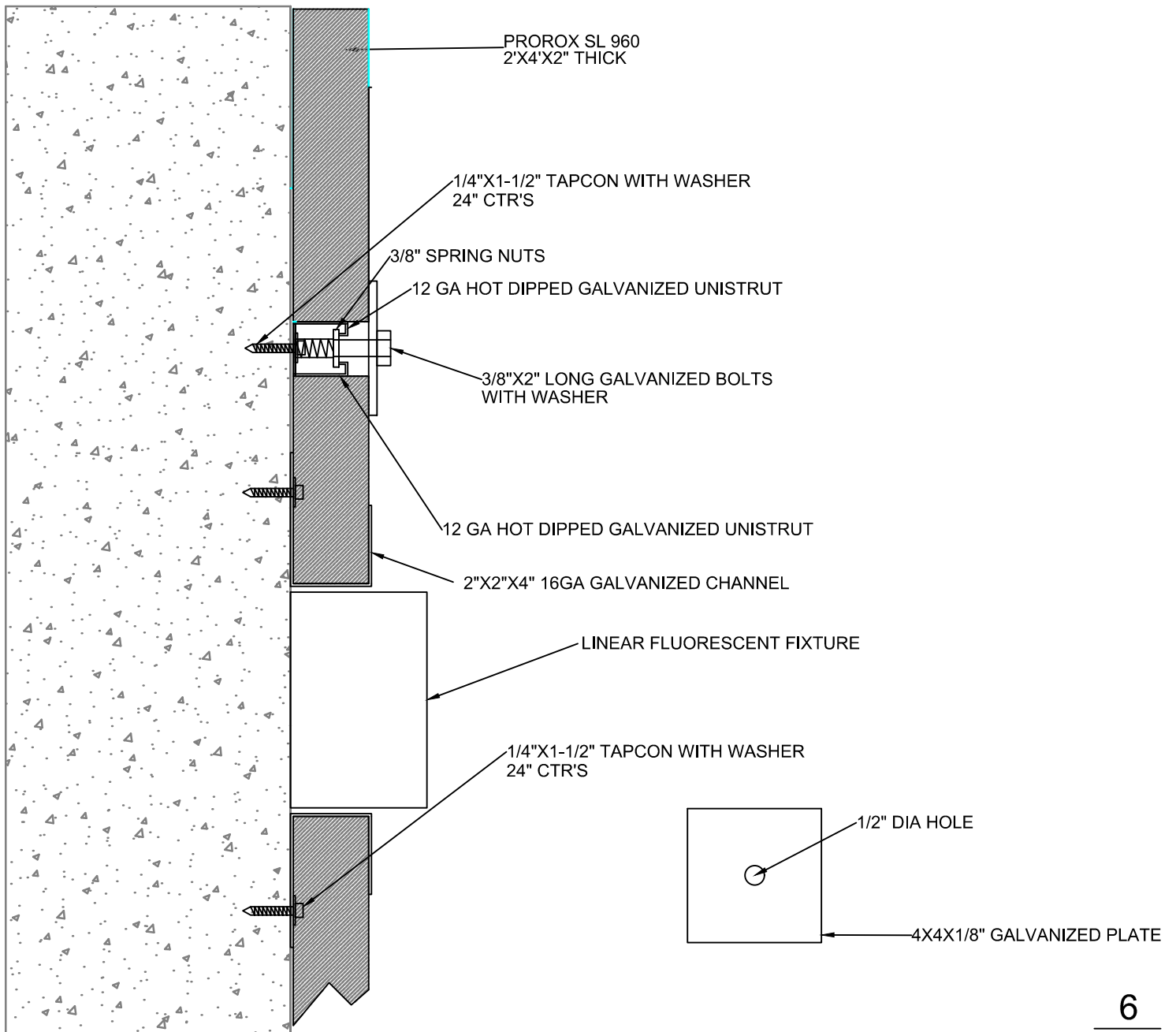
CONCRETE DECK



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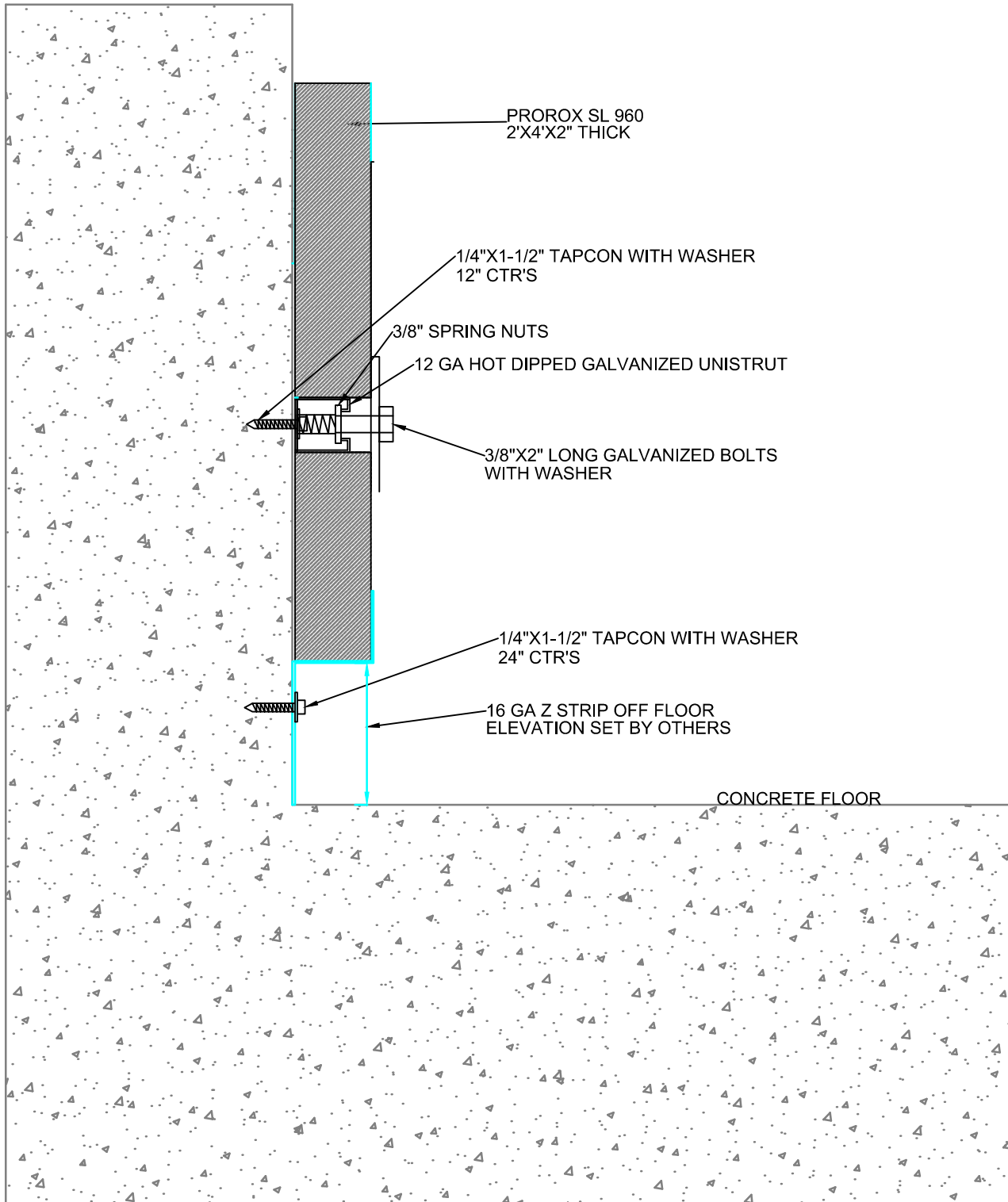
## SOUND PANEL ASSEMBLY LIGHTING DETAIL



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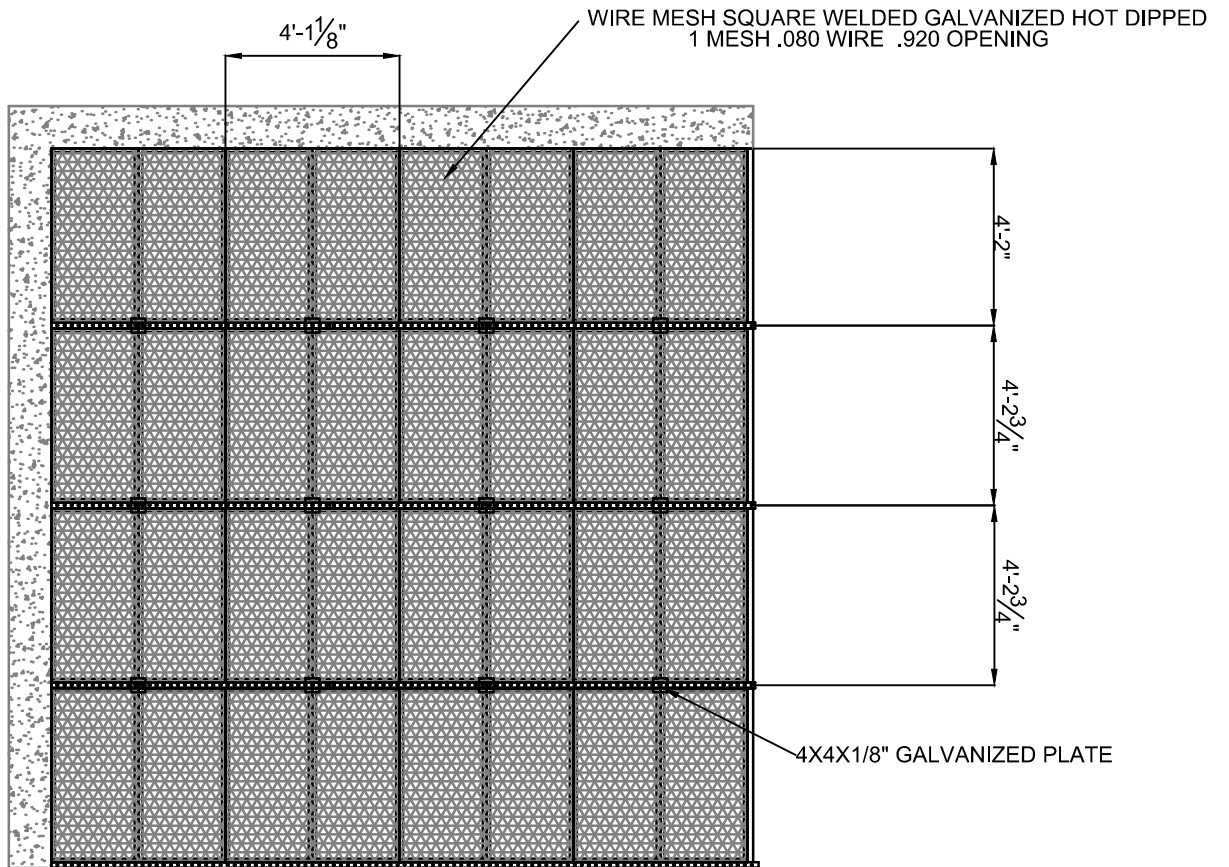
## SOUND PANEL ASSEMBLY @ FLOOR DETAIL



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An EMCOR Company

## SOUND PANELS LAYOUT STRUT LAYOUT



ProRox® SL 960<sup>NA</sup>



Old name: ROXUL RHT® 80

## Product description & application

ProRox® SL 960<sup>NA</sup> is a rigid mineral wool (stone wool) insulation board for high temperature industrial applications subject to light mechanical loads.

## Product properties in accordance with ASTM C612

	Performance							Norms	
Thermal conductivity	T <sub>m</sub> [°F]	100	200	300	400	500	600	700	ASTM C177
	λ [BTU in/hr.ft² °F]	0.24	0.29	0.35	0.41	0.47	0.56	0.68	
	T <sub>m</sub> [°C]	38	93	149	204	260	316	371	
	λ [W/mK]	0.035	0.042	0.050	0.059	0.068	0.081	0.098	
Maximum Service Temperature	Hot Surface Performance: 1200 °F- (650 °C)							ASTM C411	
	Non-Combustible							ASTM E136 / CAN4 S114	
	Linear Shrinkage ≤ 1 % at 1200 °F- (650 °C)							ASTM C356	
Reaction to fire	Surface burning characteristics Flame spread index = 0 ; Smoke development index = 0							ASTM E84 (UL 723) CAN/ULC S102	
Density	Actual Density = 5.8 lb/ft³ - (93 kg/m³) Nominal Density = 8.0 lb/ft³							ASTM C303	
Corrosion resistance **	Stress Corrosion Cracking Tendency of Austenitic Stainless Steel = Passed Corrosion of Steel = Passed							ASTM C692 ASTM C665	
Chemical Analysis **	(Salts: Cl <sup>-</sup> , F <sup>-</sup> , Na <sup>+</sup> , SiO <sub>4</sub> <sup>4-</sup> ) Results fall within acceptability limits of ASTM C795							ASTM C795 / ASTM C871	
Thermal Resistance	R-Value / inch @ 75 °F			4.2 hr. ft² °F/BTU				ASTM C518 (C177)	
	RSI value / 25.4mm @ 24 °C			0.74 m² K/W					
Water Absorption/ Vapor Sorption	< 1 % Weight							ASTM C1194	
Compressive strength	> 167psf (8kPa) @ 10% compression							ASTM C165	
Compliance	Complies with Type IVB							ASTM C612	
ROXUL offers a wide range of facings, dimensions and thicknesses. Please contact ROXUL for further information.									

Surface Burning Characteristics: UL Listed to Canadian standard CAN/ULC S102 ; UL Classified to UL 723

NOTE: \*\* Provisions for lot testing may be required, consult manufacturer.

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**ROXUL®**  
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