
JUPITER HOTEL
Portland 2016

Northwest Corner

DR Hearing Overview:

- ***4 of 5 Commissioners Fully in Support of Project Design*** with the exception of the Cladding Material

- ***WPA Responded to Questions regarding Durability and Longevity of Laminated Shingle as Cladding Material*** Fully Adhered Laminated Shingle with 40 Year Warranty is Comparable or Better than the Majority of Siding Materials

- ***WPA Responded to Concern of Moss/Algae Growth*** Shingle has a 20 year Scotchguard Warranty against Moss/Algae. Cladding is easily washed.

- ***WPA Clearly Displayed the Benefits of Asphalt Shingle in this Application*** Ability to Conform to a Distorted Facade, Material Texture and Light Quality, Minimum Skill Needed for High Quality Installation

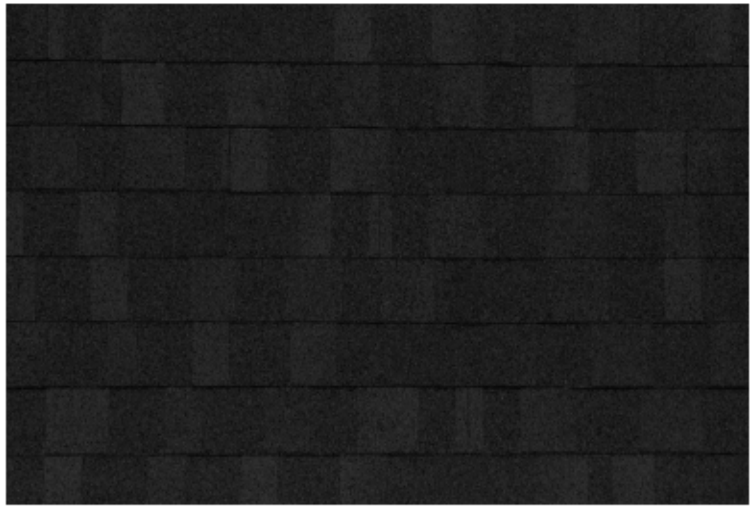
- ***WPA Displayed High Quality Detailing and Material Transitions*** Use of a conventional material in an unconventional way

- ***Design Commission Stated that they could not Set a Precedent for this Material in a Design Overlay District*** If it were elsewhere they would be in more support

- ***Design Commission Requests 2nd DR Hearing to Review Alternate Cladding Material*** Metal Shingle

Material Comparison

Laminated Asphalt Shingle



15 year Right Start Warranty

40 year Limited Lifetime Warranty

20 year Scotch Guard Warranty (Algae/Moss Resistance)

- **Minimal Skill Needed for High Quality Installation**
- **Easily Wraps and Conforms to Distorted Facade Shape**
- **Produces a Unique Texture and Aesthetic**
- **Speaks to the "Grittiness" of E Burnside**
- **Provides a "New Formal Language" Different than Projects in the Area**

Fabricated Metal Shingle

0 Year Warranty on Metal

30 year Warranty on Paint

0 year Scotch Guard Warranty (Algae/Moss Resistance)

- **Skilled Craftsman Needed for High Quality Installation**
- **Major Custom Fabrication needed for Wrapping of Distorted Facade Shape**
- **Produces a Texture and Aesthetic which is Often Repeated**
- **Less Representative of the "Grittiness" of E Burnside**
- **Provides a Formal Language Similar to Projects found throughout the city**

Laminated Asphalt Shingle

- **Laminated Asphalt Shingles are an Off the Shelf Product that Easily Conforms to the Faceted Nature of the Building Form**
- **Fabrication and Installation Requires a Low Level of Skill (Minimum Margin for Error)**
- **Asphalt Shingle Provides a consistent Patterning, Color, and Depth**
- **Asphalt Absorbs Light Minimizing Reflection Creating a Unique Texture**
- **Corner Details are Clean and Precise**
- **Mock-up was Built by Nonprofessionals in One Day**

Fabricated Metal Shingle Mock-up

- **Shingles Custom Fabricated due to the Faceted Nature of the Building Form**
- **Fabrication and Installation Requires a Highly Skilled Professional (Greater Margin for Error)**
- **Metal Shingle is Susceptible to Oil Canning and Distortion**
- **The Reflectiveness of Metal Highlights Imperfections**
- **Clean Corner Conditions are Difficult to Achieve**
- **Mock-up was built by Professional Metal Workers in 6 Days**

Building Precedents

Goldfields Dwelling

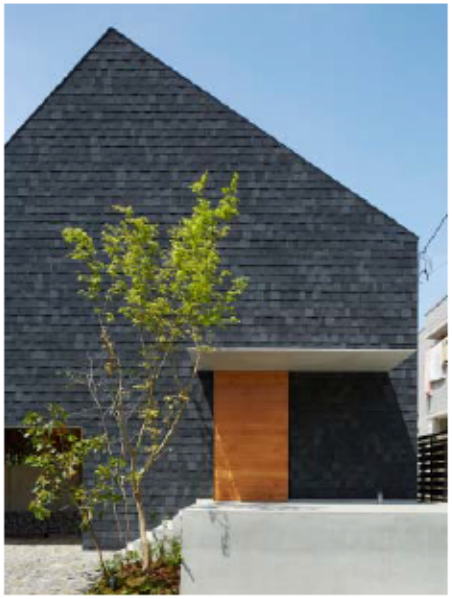
Victoria, Australia 2012

Design Office Architects

House in Anjo

Anjo, Japan 2016

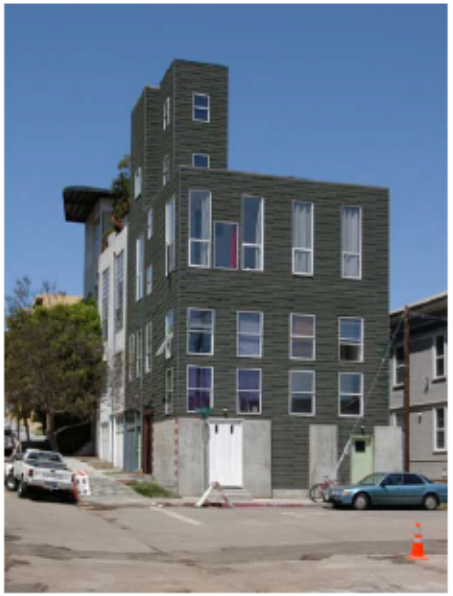
Suppose Office Architects



9th and Beech

San Diego, CA 1991

Ted Smith



The Charmer

Jonathan Segal Architects

San Diego, CA 2012

Winner 2012 residential architecture

Design Awards "Project of the Year"

Casa Maitencillo

Maitencillo, Chile 2011

Mas y Fernandez Arquitectos Asociados

Malarkey Roofing Products

Malarkey and Innovation

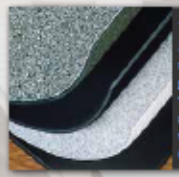
OUR HISTORY

1956
Herbert Malarkey begins a new manufacturing venture named Herbert Malarkey Paper Company, which later became Malarkey Roofing Products. Malarkey begins operation with saturated felt rolls.

1959
Malarkey begins researching the use of fiberglass mat in shingles.

1960
Malarkey produces their first 3-tab shingle.

1975
Michael Malarkey assumes the position of President of Malarkey Roofing Products and installs the first random lay inorganic fiberglass mat machine in Western North America.



1976
Malarkey introduces fiberglass mat to 3-tab shingles and gives them the first 20-year warranty in the industry. The same year, Malarkey introduces the fiberglass Built-Up Roofing (BUR) system.

1976
Malarkey starts research into using Styrene-Butadiene-Styrene (SBS) rubber modified polymers in roofing products.

1977
Malarkey introduces the first metric fiberglass shingle in North America. The same year, Malarkey introduces the first SBS polymer modified base sheet in North America.

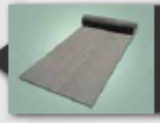
1981
Malarkey is awarded the first Class 'A' fire rating for any SBS Built-Up Roofing system over wood decking.

1984
Malarkey partners with the City of Portland and installs a methane recovery pipeline from the Columbia Boulevard Wastewater Treatment Plant. The renewable methane reduces Malarkey's natural gas consumption by over 80 percent.

1985
Malarkey receives the State of Oregon's Governor's Award for Outstanding Achievement in Energy Conservation for its methane recovery program.

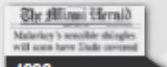
1986
Malarkey introduces the first SBS polymer modified roofing shingle, The Alaskan®, which remains a benchmark for shingle quality in North America.

1987
Malarkey introduces Styrene-Ethylene-Butylene-Styrene (SEBS) mopping asphalt, which provides improved thermal performance and resistance to UV degradation.



1988
Malarkey is the first manufacturer to convert fiberglass BUR roll products to metric.

1997
Malarkey introduces the first SBS polymer modified laminate shingle, the Legacy®.



1993
The Alaskan® shingle is a cover story in the Miami Herald for being the first shingle to meet the 110 mph Miami Dade building code requirement for wind.

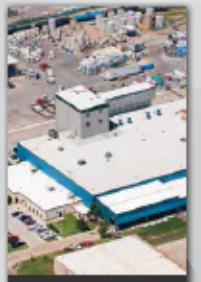
1994
Malarkey produces the first 3M Algae Block shingle, the Hurricane™, which would later be known as The Alaskan® with Scotchgard™.

2001
Malarkey obtains patent for The Zone®, which tapers and extends the laminate shingle nailing strip to 1¾" to address laminate installation issues.

2003
Malarkey becomes the first manufacturer to receive the 3M Scotchgard™ designation for algae resistant shingles.

2003
Malarkey expands with a new production facility in South Gate, California.

2006
Malarkey receives the Outstanding Service Award from the Western States Roofing Association for the creation of The Zone® nailing area.



2011
Malarkey expands from the West Coast with a manufacturing plant in Oklahoma City, Oklahoma.

2009
Malarkey releases the solar reflective Ecoasis™ shingle, which is listed with ENERGY STAR and the Cool Roof Rating Council.

2014
Malarkey releases their first designer shingle, the Windsor®, which was engineered with input from roofing contractors over a two-year period to combine quality design with ease of installation.

20 April 2016

To whom it may concern

Re: Jupiter hotel Expansion

I would like to convey the following information regarding the use of Malarkey Roofing Products on the subject project:

- Malarkey has had discussions and personally reviewed the project, mock-up and intended use of Malarkey Legacy shingles on this project with Works Partnership Architecture.
- Malarkey is excited looks forward to seeing our product used and installed in this innovative application.
- Malarkey has discussed and worked with Works Partnership Architecture to determine and insure the proper installation and application of our product on this project.
- All standard warranties offered by Malarkey will be valid and honored on the products used on this project and type of installation.
- Malarkey is a local roofing products manufacturer headquartered in Portland, OR. We have been manufacturing asphalt roofing products from the same location since 1956, and have a history of sustainable practices and strong relationships with the city of Portland and BES.
- Malarkey has recently celebrated a 30 year relationship with BES in regards to the methane recovery project in Portland.
- All Malarkey manufacturing facilities are Green Circle certified.
- Malarkey has accomplished many industry firsts and milestones, which can be found in our history brochure. We are proud to be a local business and provide quality products and innovations to the roofing industry.

Should you have any questions or would like any additional information, please do not hesitate to contact me directly.

Pat Reddaway

Commercial Sales Representative
Malarkey Roofing Products
253-222-5331
preddaway@malarkeyroofing.com

Defining Excellence.™

Columbia Boulevard Wastewater Treatment Plant

Methane Pipeline Built by Malarkey in 1985

Methane Powers 67% of Malarkey's Production Facility

- Portland's Bureau of Environmental Services (BES) and Malarkey Recently Celebrated 30th Anniversary of Business Partnership
- In 1984 Malarkey Roofing Completed a Methane Pipeline from the Columbia Boulevard Wastewater Treatment Plant, Using this By-Product to Power their Facility.
- In 1985 Malarkey won the "Governor's Energy Award" for Outstanding Achievements in Energy Conservation
- NW Natural and Malarkey are Currently Working on a Methane Delivery Solution with the Goal of Powering 90% of the Production Facility
- Malarkey is Praised for their "Holistic Approach to Eco-friendly Business and Infrastructure."

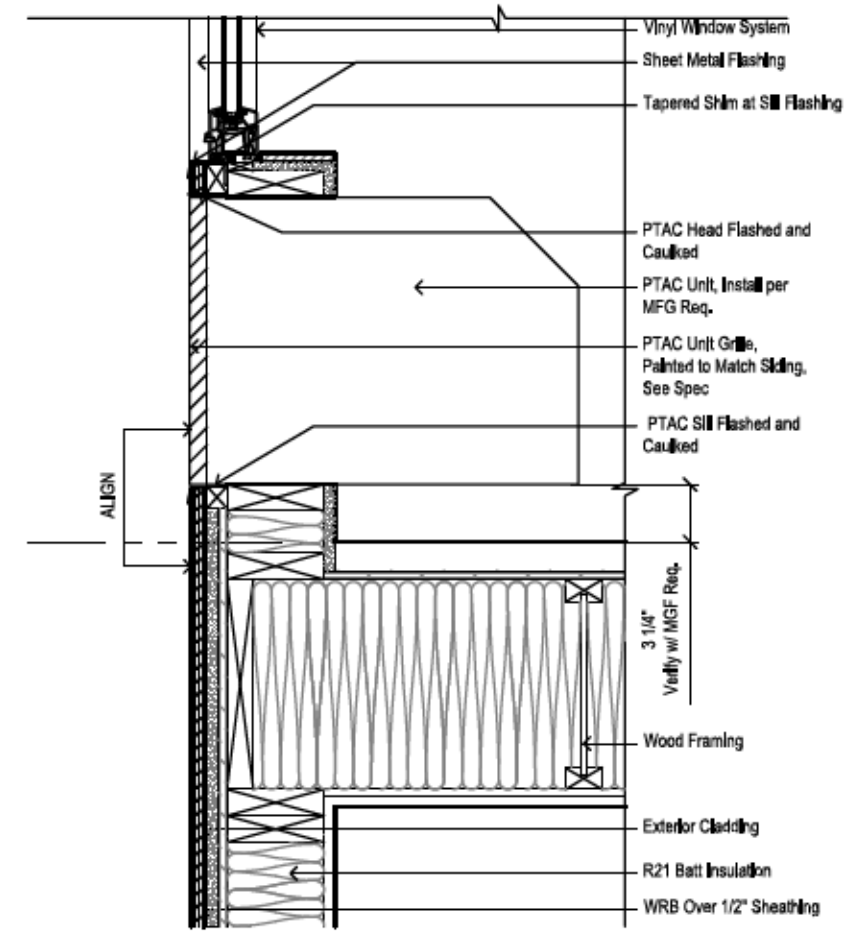
“Sustainability is a vital aspect of our commitment to our customers and local communities.” - Jim Fagan, President of Malarkey Roofing Products

Malarkey Laminated Asphalt - the Superior Material:

- ***It is a Local and Sustainable Product with a Strong Tie to the City of Portland***
- ***It's Durability is Equal or Greater than the Majority of Siding Products***
- ***It is Easily Installed with a Minimal Possibility of Error, Easily Conforms to the Uniqueness of the Building Facade***
- ***It is a Progressive and Innovative use of an Conventional Material***
- ***It Provides a Unique Texture and Aesthetic***
- ***It Speaks to the Nature of E Burnside and to the City of Portland.***
- ***It Tells a Unique Story, a Great Benefit in the Hospitality Industry***


HOTEL
JUPITER HOTEL
DRIVE SLOW

Appendix



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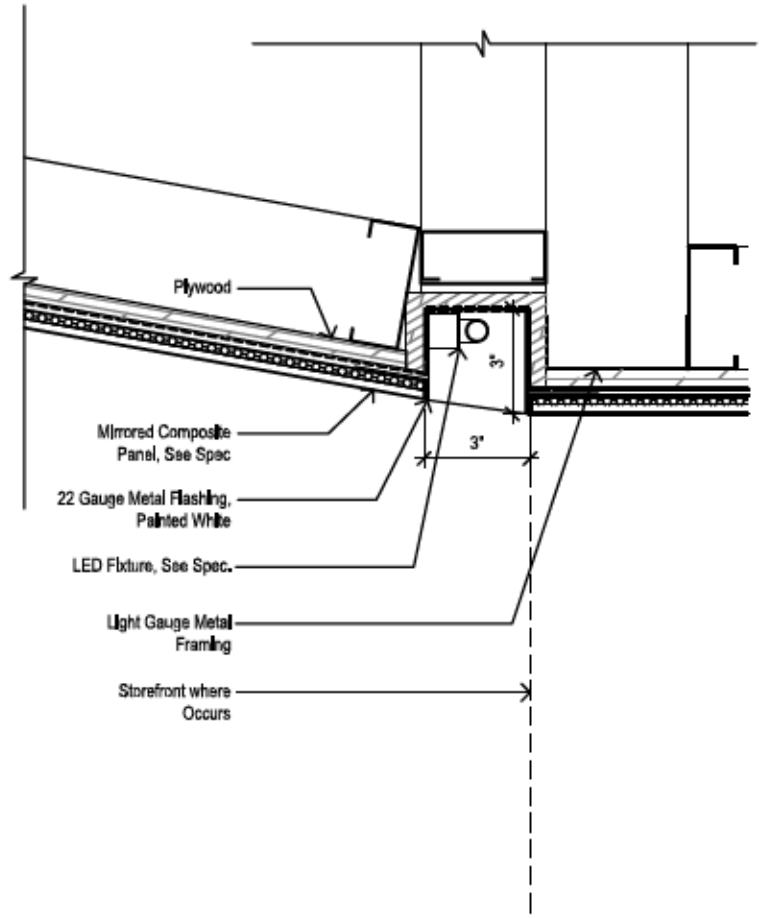
Typical Window Sill Detail @ PTAC Unit

1 1/2"=1'-0"

section detail

PTAC Detail



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Light Cove Detail

section detail

3"=1'-0"

Light Cove Detail

INFINA

DESIGNED FOR CREATIVITY, BUILT FOR SOLUTIONS

FEATURES

ARCHITECTURAL GRADE
- Incorporates JESCO's exclusive Driverless AC LED Technology
- High output 3 Step MacAdam LEDs ensure consistent color output
- Patent Pending Constant Current IC's provide uniform intensity over the entire run
- Patent Pending Keyed Connector System
- Smooth ELV Dimming

ULTRA-HIGH LUMEN OUTPUT
- Provides up to 555 Lm from 4.95W with an efficacy of 112 Lm/W†
- Patent Pending optically clear thermoplastic jacket

ULTRA LONG RUN
- 150 foot run length
- Uniform intensity and color throughout the entire run
- Quick installation with channels or clips

50,000 HOUR LIFE
- No in-line or remote drivers mean that the weakest link in the LED system is eliminated guaranteeing a long lifetime
- 5 Year Limited Warranty

DL-AC-FLEX

FLEXIBLE LINE VOLTAGE LED LINEAR STRIP

LED	120V AC	4.95 W/Ft	555† Lm/Ft
112† Lm/W	80+ CRI	ELV	160°
WET*	ETL		

Input: 120V AC 50/60Hz
Dims: ⅜" W x ¼" H
Max/Min Run: 150' / 4"
Dimming: ELV
Environment: In/Outdoors*, Dry, Damp & Wet

* Not submersible. Not intended for applications where water can puddle or product can be covered by snow.
† Based on 4000K data. Up to 1,000 Lm/Ft available – contact factory

Powered by MAG LED

TO ORDER

MODEL	-	CCT
DL-AC-FLEX	-	

27 - 2700K
30 - 3000K
40 - 4000K

MOUNTING OPTIONS

	Model	Description
	DL-AC-FLEX-CH4	4' Mounting Channel
	DL-AC-FLEX-CH8	8' Mounting Channel (clear plastic with UV inhibitors)
	DL-AC-FLEX-MC	Mounting "U" Clip (clear plastic with UV inhibitors) Dims: ½" H x 1"W x 1" L

TERMINATION OPTIONS**

	Model	Description
	DL-AC-FLEX-PC2	2' Power Plug with surge protection
	DL-AC-FLEX-PC6	6' Power Plug with surge protection
	DL-AC-FLEX-100-PC2	2' Power Plug with surge protection for runs greater than 75'
	DL-AC-FLEX-CC3	3" Connecting Cable
	DL-AC-FLEX-CC6	6" Connecting Cable
	DL-AC-FLEX-CC12	12" Connecting Cable
	DL-AC-FLEX-CC24	24" Connecting Cable
	DL-AC-FLEX-EC	End Cap Note: End cap must be used at the end of every run and siliconed.

** Surge protector must not be removed
Pending UL approved Hard Wire termination option, available January 2015.

Specifications subject to change without notice.
See spec sheet or jescolighting.com for more details.

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Linc Mann, Public Information Officer, Portland Environmental Services
Phone: 503-823-5328 Email: linc.mann@portlandoregon.gov

FOR IMMEDIATE RELEASE

PORTLAND BUREAU OF ENVIRONMENTAL SERVICES AND MALARKEY ROOFING PRODUCTS CELEBRATE 30 YEARS OF SUSTAINABLE ENERGY

Portland, OR – August 4, 2014 – This year, Malarkey Roofing Products® and the Portland Bureau of Environmental Services are celebrating a 30-year partnership of sustainable energy. The relationship began when Past President Michael Malarkey noticed methane gas being flared off at the wastewater treatment plant while on the daily commute to his roofing manufacturing facility. He saw an opportunity to utilize the sustainable energy and approached the treatment facility about forming a partnership. The initial investment for Malarkey was sizable but aligned with the core sustainable values of both facilities. In 1983, Malarkey began construction on a pipeline to transport methane gas from the Columbia Boulevard Wastewater Treatment Plant, along the Columbia Slough, and finally to the Malarkey Roofing Products manufacturing facility one mile down the road. The completion of the pipeline in 1984 began a unique public-private partnership that continues to this day.

The Columbia Boulevard plant is Oregon's largest wastewater treatment facility, cleaning about 30 billion gallons of water a year. The process generates about 1.5-million cubic feet of methane gas every day. Today, the treatment plant uses its own biogas to fuel boilers for process and building heat, and to supply fuel for two engine generators that produce heat and electricity for treatment plant operations. The two engines can generate up to 1.7-megawatts of electricity per day and they produce more than 40% of the plant's electricity. Malarkey Roofing Products is able to utilize up to 25% of the biogas fuel produced at the wastewater facility, which powers a historical average of 67% of the roofing manufacturing facility. "Most large wastewater treatment plants re-use methane but very few have an opportunity to work directly with private industry to put methane to good use," said Environmental Services Director Dean Marriott. "For the last three decades, this arrangement has benefitted both the city and Malarkey Roofing."

The partnership has proven to be both an environmentally and economically sustainable venture. Malarkey purchases the methane from Environmental Services to use as fuel in heating its manufacturing process, thus saving money over traditional fuels and providing additional income to the city. "Our industry requires a large amount of heat in the process of manufacturing asphalt shingles," states Malarkey Roofing Products President James Fagan. "We take pride in the fact that we can promote sustainability through this partnership." All of the methane consumed by Malarkey is used for the facility's product manufacturing – from curing fiberglass mat to providing the process heat source for shingles and other asphalt roofing products. In 1985, Malarkey Roofing Products won the Governor's Energy Award for Outstanding Achievements in Energy Conservation.

Both parties are working on developments to increase efficiencies and utilize more of the sustainable methane gas. Malarkey is currently working with NW Natural on a delivery solution to increase methane usage, with the goal of powering 90% of the manufacturing facility with methane. Environmental Services is also looking to increase its use of the resource. The bureau recently began studying the possibility of turning the plant's remaining methane into fuel for natural gas vehicles. "Thirty years ago this kind of a partnership was unheard of," explained Fagan. "It has been an asset to both parties and we're looking forward to seeing where these sustainable solutions can lead us in the future."

About Malarkey Roofing Products

Malarkey Roofing Products is a Portland, Oregon based company that provides technology driven residential, commercial, and sustainable roofing solutions for contractors, architects and homeowners seeking dependable roofing products.

Since 1956, Malarkey Roofing Products has consistently valued innovation and is motivated to manufacture products that improve people's lives while balancing environmental and economic interests.

About Portland Bureau of Environmental Services

The Bureau of Environmental Services works with Portland residents and businesses to protect water quality, public health, and the environment through wastewater collection and treatment, sewer construction and maintenance, storm water management, and stream and watershed restoration.