

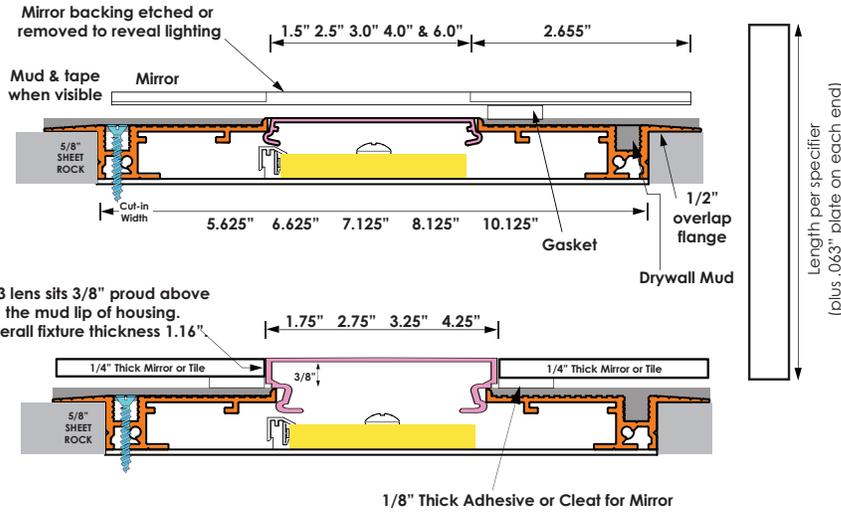


1.5", 2.5", 3.0", 4.0" or 6.0"

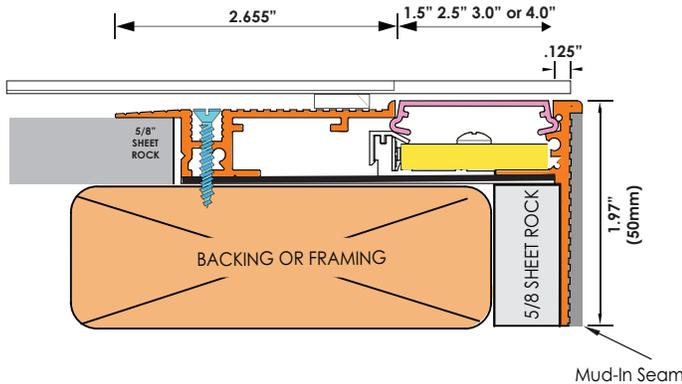
Installed behind sandblasted mirrors or where silver backing removed
 Flush lens creates a single surface to clean with light through mirror
 Tall lens allows mirror or tile sections to be mounted even with lens face & access without removing mirror
 1.5", 2.5", 3.0", 4.0" or 6.0" luminous lines of light within mirror
 Zero Cavity construction allows precise placement without special framing or interference with plumbing
 Units fits within thickness of the finished wall material
 DeadSide versions for use with corners, tile & medicine cabinets

Specification

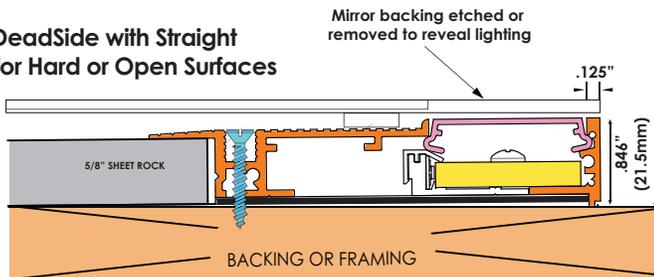
Standard Housing



DxM DeadSide with Mud-In Lip for Outside Corner



DxH DeadSide with Straight Side for Hard or Open Surfaces



Ordering

Series	MR	<input type="checkbox"/> MirrorLine (standard)
	MRD	<input type="checkbox"/> MirrorLine DeadSide
Width		<input type="checkbox"/> 1.5" <input type="checkbox"/> 2.5" <input type="checkbox"/> 3.0" <input type="checkbox"/> 4.0" <input type="checkbox"/> 6.0" (MR only)
Mounting	MC5	<input type="checkbox"/> New construction or Cut-in 5/8" drywall or thicker
Lamping	2ML	<input type="checkbox"/> 350lu/ft LED 9.8w/ft (32w/m)
Delivered Lumens	_CC	<input type="checkbox"/> Constant Current LED 2.0-8.0w/ft (up to 485lu/ft)
	6P	<input type="checkbox"/> 228Lu/ft LED 6.1w/ft for use with LUTP power supply (269 & 299 color only)
Color	269	<input type="checkbox"/> 2650K, 90+CRI, 6P lamping only
	27	<input type="checkbox"/> 2700K, 85+ CRI
	30	<input type="checkbox"/> 3000K, 85+ CRI
	279	<input type="checkbox"/> 2700K, 90+ CRI
	299	<input type="checkbox"/> 2950K, 90+ CRI, 6P lamping only
	309	<input type="checkbox"/> 3000K, 90+ CRI
	40	<input type="checkbox"/> 4000K, 85+ CRI
	409	<input type="checkbox"/> 4000K, 90+ CRI, CC lamping only
Wire Harness	1	<input type="checkbox"/> Single
	2	<input type="checkbox"/> Double (for warm dim, list hi & low colors) See Ex. #3
Lens	W	<input type="checkbox"/> White flush
	TW3	<input type="checkbox"/> 3/8" Tall White (100" max length) (Not with MR60)
Length	XX	<input type="checkbox"/> Specify length to 1/16" or mm
(with MRD series)	xxFC	<input type="checkbox"/> Allows housing to be field cut
	RECF	<input type="checkbox"/> _x_ Rectangle Flat XX" by XX"
	PAT	<input type="checkbox"/> Use to denote patterns as drawn
DeadSide Styles & Position	DLH	<input type="checkbox"/> Left side abutting hard surface, e.g. Tile or medicine cabinet
	DRH	<input type="checkbox"/> Right side abutting hard surface
	DLM	<input type="checkbox"/> Left side with mud lip for perpendicular drywall
	DRM	<input type="checkbox"/> Right side with mud lip for perpendicular drywall
Transitions	LTxx	<input type="checkbox"/> Left Turn same plane
	RTxx	<input type="checkbox"/> Right Turn same plane
	ICxx	<input type="checkbox"/> Inside Corner (wall to ceiling)
Finish	NA	<input type="checkbox"/> Nat. Anodized
DxH only	BK	<input type="checkbox"/> Black
	WH	<input type="checkbox"/> White
Units	mm	<input type="checkbox"/> mm <input type="checkbox"/> in <input type="checkbox"/> inches

Environmental Data



For High Output lamping at 3000k:
 W: 9.8W/ft (32W/m)
 LLD: 50,000hrs @ 70%lm
 10ft (3M) on one 100w driver

Temp range: 0° ~ 90°F (-20 ~ 30°C)

No Mercury, No UV, No Flicker

Warranty: 5 years

cETLus Listed Damp Location IC rated

Contact factory for construction details to install in environments with ambient temperatures above 90° F for more than 5 hours.

R-FLV Driver

Forward phase low voltage remote mounted power supply with 24Vdc Constant Voltage output for simple class 2 installation. 20W, 40W, 60W or 96W; 120V 60Hz input. Minimum 50% watt load required; e.g. 10W on ELV20
Dims to 20% with forward phase 2-wire magnetic low voltage dimmer. Short circuit and overload protected.
Non-IC installations.
Listed for 90 C conductors with 1/2" trade size knock outs.
NEMA 3R enclosure.

R-xxx-UNV Drivers

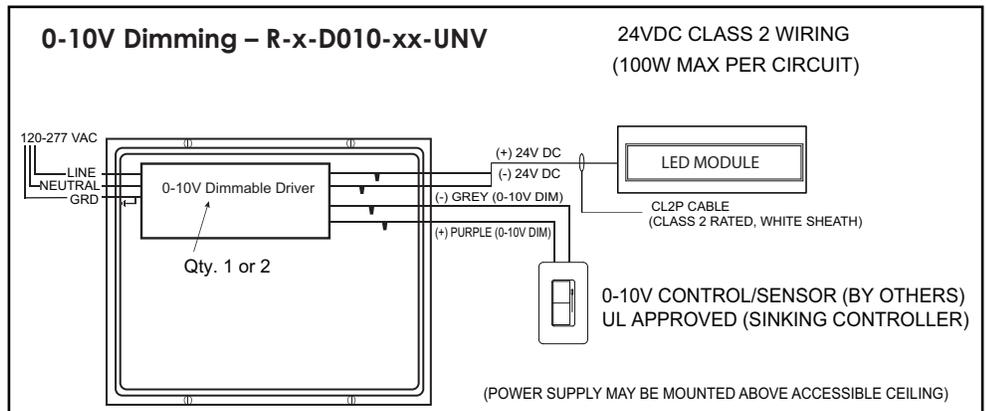
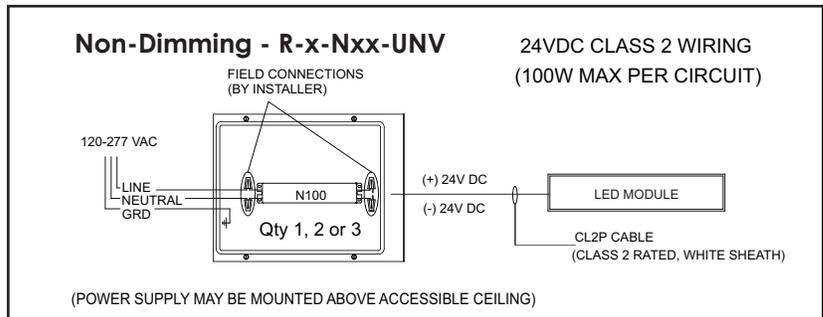
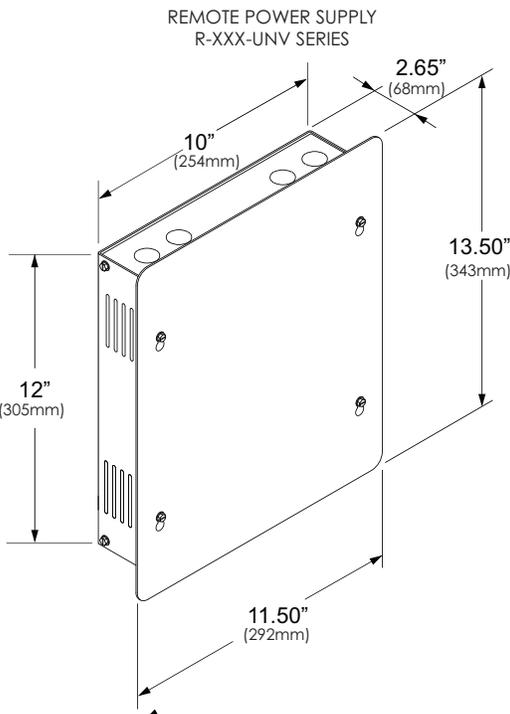
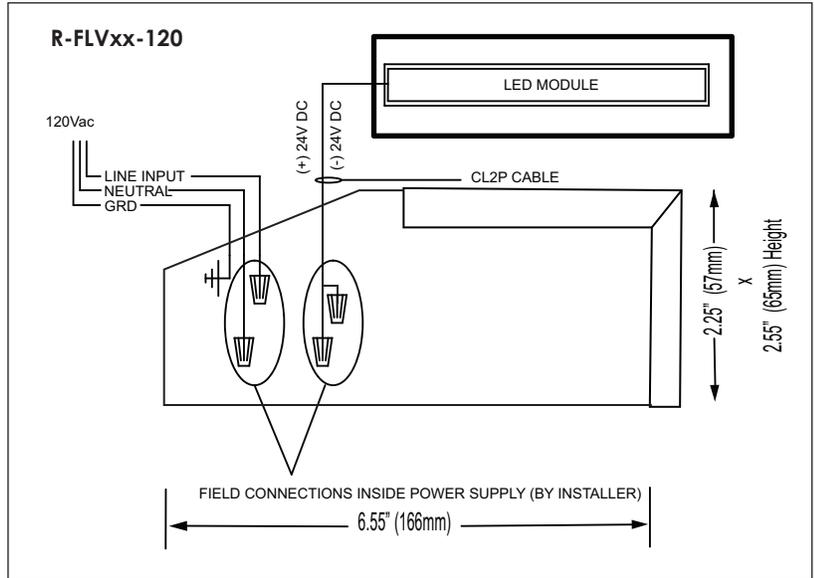
Remotely located power supply with 24Vdc Constant Voltage, or Constant Current, output for simple class 2 installation. Electronic Drivers 50/60 Hz, 120 thru 277 input. Choice of 0-10V dimming or switched on/off. Dimmable drivers with 3KL, 1ML, or 2ML may flicker below 10%. Use Constant Current version to dim to 1%.
Nxx requires 8W and D010 requires 20W minimum load
Type A Sound Rating,
Non IC installations standard; consult factory for IC installation.
May be surface mounted or recessed in 2x4 walls or above accessible ceilings.
Housing is die formed 16ga CRS with White painted after fabrication finish.
Listed for 90°C conductors with 1/2" trade size Knock Outs.

R-DLUT96-UNV Driver

* For use with 6P lamping only.
Dims to 1%
Remote power supply 24Vdc Constant Voltage Output. 50/60Hz, 120 thru 277V input.
Class A sound rated.
Rated for Damp location use. Non-IC installations.
Dims with 3-Wire dimmer or EcoSystem™ Requires 25W minimum load. For more info visit:
<http://www.lutron.com/TechnicalDocumentLibrary/369883.pdf>

Driver*	R	<input type="checkbox"/> Remote
Drive Qty Per	-	<input type="checkbox"/> Blank for FLV & DLUTP type
Power Supply	X	<input type="checkbox"/> Factory determined with Nxx or D010 type
Type	FLVxx	<input type="checkbox"/> Forward phase low voltage, 20, 40, 60 or 96W
	Nxx	<input type="checkbox"/> Non-dim 100W max.
	D010	<input type="checkbox"/> Dimming via 0-10Vdc
	D010_mA	<input type="checkbox"/> **Constant Current (mA by factory)
	DLUTP96	<input type="checkbox"/> Lutron Hi-Lume Premier 96W (6P lamping only)
Voltage	UNV	<input type="checkbox"/> Universal 120-277V for Nxx or D010 type
	120	<input type="checkbox"/> 120 only for FLV type
	CP	<input type="checkbox"/> Chicago Plenum rated enclosure

*Constant factor for DALi, DMX & Lutron driver options.
**Constant Current requires a factory programmed driver for each LED panel.



Mirror provided by others

Ensure mirror is waterwhite glass or low iron to avoid greenish cast. If Sandblasting (done by others) is of sufficient density to prevent lamp image, lens can be removed from fixture. Visit <http://angelgilding.com/other-supplies/mirror-removers.html> to strip backing for clear glass on site. Allow 1" spacing from edge of mirror for proper gasket positioning to avoid light leaks between mirror and wall surface.

Housing

All aluminum housing mounts just like drywall to framing and hat channel to create a monolithic heat sink. DeadSide versions for abutting hard surfaces (DxH) or outside corners (DxM). If located within 3" of perimeter of mirror, housing lip is mudded into surface to provide a trimless installation. Foam mud shield keeps aperture clean during install. Easily removed and re-installed as needed. Housing ships with 10ft CL2P cable attached to reach remote power supply. Longer lengths optional, or 12AWG wire can be added on site; up to 20' with D010 or 50' with Nxx & FLV ETL listed, damp location, IC rated (including polyurethane insulation).

Lens

Snap-in high transmission acrylic lens, up to 26ft per section, provides a matte white finish. Standard lens fits flush with finished wall surface. TW3 lens sits 3/8" proud of finished wall surface allowing mirror to be glued to wall & also run completely to ceiling..

Modifications

Runs can be provided to the nearest 1/16" or 1mm. "FC" Field cutting allows for a perfect architectural fit. "FC" Housings may be field cut up to 6", then LED panels ordered to fit, DO NOT CUT non-FC HOUSINGS. For unique custom work, such as corners and patterns, see additional spec sheet or consult factory for shop drawings.

Transitions

When lens changes directions on same plane or to a 2nd plane. (Minimum length 3.875" or 98mm per side). "LT" Left Turn same plane (degrees 90° to 179°) "RT" Right Turn same plane (degrees 90° to 179°) "IC" inside corner between two planes. Housings overlap and adjust for non-square corners.

LED

LED boards attached to aluminum heat sink at factory (no need to clean surface with alcohol on site to prevent air bubbles underneath). Low wattage white light LED produces even distribution with no shadows. Blending and overlap keep color and light output uniform. 2700K or 3000K LED available in 85+ or 90+ CRI. Note that 90+ CRI has R9 greater than 0, but reduces lumen output 15%.

Optics

Light guide panel diffuses multiple LED sources. Panel plugs into housing via DC quick connects & is secured with clear poly screws for quick & easy replacement.

Photometric Data

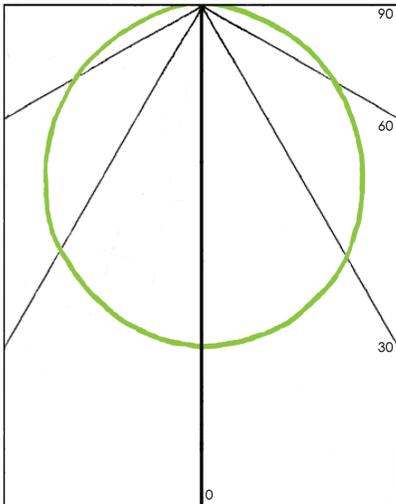
BALLabs

Independent Test No. 17940.0

Cat No.: S25-MC5-2ML-35-1-W-R-S-24-S-in
 Meanwell Driver No.: LPV-20-24 operating at 120v
 Total Lumens: 701
 * Multiply all data by .50 for 1ML, .25 for 3KL or 1.39 for 8.0CC

This is an absolute test per LM-79-08
 Luminous Length: 24"
 Width: 2.5"

Candlepower Distribution (cd)



Angle	Along	45°	Across
0°	259	259	259
5°	262	259	256
10°	256	252	251
15°	252	247	246
20°	240	236	234
25°	230	225	225
30°	219	214	211
35°	202	199	197
40°	186	180	179
45°	166	163	162
50°	149	144	145
55°	128	124	125
60°	107	105	104
65°	85	84	82
70°	65	54	64
75°	43	42	40
80°	25	24	26
85°	9	7	10
90°	0	0	0

Zonal Lumen Summary

Zone	Lumen	% Luminaire
0-30°	198	28.4%
0-40°	322	46.1%
0-60°	560	80.2%
60-90°	139	19.8%
90-180°	0	0%
0-180°	699	100%

Luminance Data (cd/m2)

Angle	Along	45°	Across
45°	6017	5905	5868
55°	5713	5529	5575
65°	5128	5065	5003
75°	4288	4186	3982
85°	2729	2122	3032

1. Mount and Level Housing. Cable to Remote Power Supply.

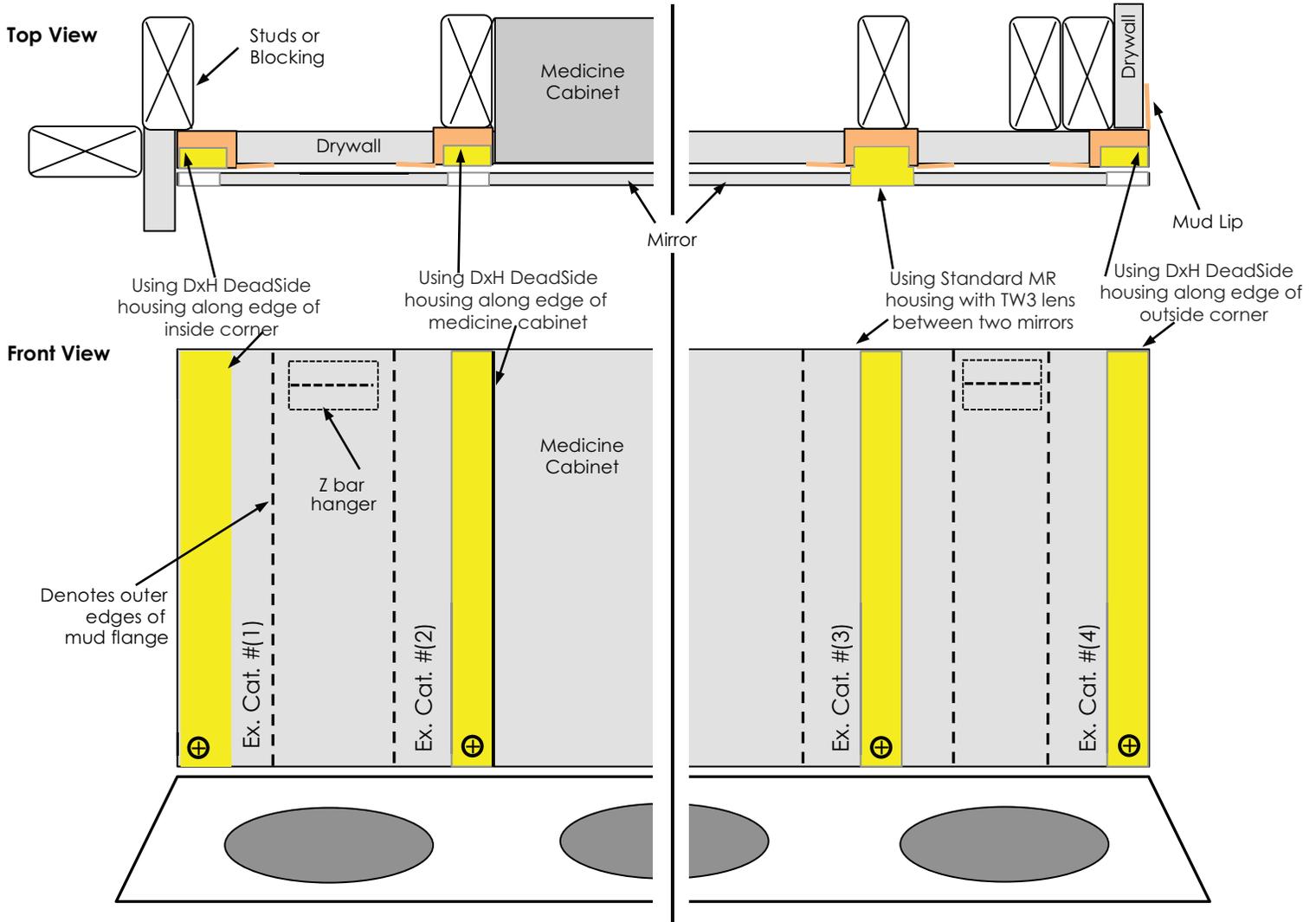


2. Install Drywall, Tape, Mud & Finish.



3. Plug in LED Module & snap in lens.





⊕ Factory attached CL2P feed cable to be run to remote power supply. Shop drawings will show length, quantity & exit location(s). Assembly drawing will detail which driver to land each cable to.

Ex. Cat#s (xx=length). Add power supplies as needed

- (1) DeadSide (on left) abutting inside corner wall
MRD30-MC5-2ML-30-1-xx-DLH-NA-in
- (2) DeadSide (on right) abutting mirror break for medicine cabinet
MRD25-MC5-2ML-30-1-xx-DLH-WH-in
- (3) Standard fixture with both mud flanges, warm dim and TW3 lens. (5.4CC = 350Lu/ft, same as 2ML lampping. Warm dim requires DALi dimming)
MR25-MC5-5.4CC-27/40-2 TW3-xx-in
- (4) DeadSide with mud lip on right to wrap outside corner
MRD25-MC5-2ML-30-1-W-xx-DRM-in
- (5) Rectangle around perimeter edge (not shown)
MRDxx-MC5-2ML-309-1-W-RECF- L x W -DxH-NA-in

Side View

