A Subsidiary of Garland Industries

Submittal Package

07 13 26

TegoBloc SA
Self-Adhered Sheet Waterproofing

GMX, Inc.
866-228-7743
WWW.GMXCO.COM

SECTION 07 13 26

TegoBloc SA
Self-Adhered Waterproofing Membrane

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Self-adhering sheet waterproofing membranes.

1.2 RELATED SECTIONS

A. Section 03300 - Cast-In-Place Concrete.

B. Section 04800 - Masonry Assemblies.

1.3 REFERENCES

A. ASTM International:
1. ASTM D 412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension.
2. ASTM D 779 - Standard Test Method for Water Resistance of Paper, Paperboard, and Other Sheet Materials by the Dry Indicator Method.
3. ASTM D 882 - Standard Test Method for Tensile Properties of Thin Plastic Sheeting.
4. ASTM D 1970 - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.
5. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials.

1.4 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

C. Shop Drawings: Submit shop drawings including details of construction and relationship with adjacent construction.

D. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.

E. Warranty: Submit manufacturer's standard warranty.

F. Verification Samples: For each finish product specified, two samples, minimum size 3 inches (75 mm) x 4 inches (100 mm), representing actual product, color, and patterns.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Experienced in installation of specified material type with working knowledge of specified products and Project specific application requirements.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Storage:
   1. Store materials in clean, dry, heated area indoors in accordance with manufacturer's instructions.
   2. Store cartons on end and protect from moisture and damage.
   3. Protect from temperatures above 100 degrees F (38 degrees C).
   4. Do not remove rolls from cartons until application.

1.7 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.8 WARRANTY

A. Limited Warranty:

   1. Manufacturer warrants materials to be free from leaks caused by defects in material or manufacturing for a period of 10 years from the date of purchase when applied according to published directions.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: GMX, Inc., 3014 Chamber Dr., Monroe, NC 28110, USA. Phone (866) 228-7743, Fax (704) 334-4202, Website: WWW.GMXCO.COM

B. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 WATERPROOFING MEMBRANE

A. TegoBloc SA is a prefabricated, self-adhering sheet-type waterproofing membrane. It is composed of a tough, multi-layer, cross-laminated film that is coated with a rubberized asphalt adhesive. It is a high performance, multi-purpose waterproofing membrane intended for use in below-grade applications, and under siding, exterior plaster, as a through-wall flashing or anywhere it will be protected from ultraviolet exposure.

B. TegoBloc SA adheres aggressively to most clean, dry substrates including metal, wood, vinyl, masonry, ICF foundations, Gold Bond® e^{2}XP™ and rigid insulation boards.

C. TegoBloc SA may be used to waterproof foundations and other below-grade structures, plaza decks, balconies, under siding, and exterior plaster. Other uses include wall, floor and planter waterproofing, under stucco and at head, sill chimney shoulders, pot shelves, parapets and pony walls.

D. TegoBloc SA seals SIPS building panels and around doors, windows and other potential leak areas. Waterproofs and protects ICF foundations from damage. This advanced system bonds to the substrate and self-seals around nails, staples and other fasteners to prevent damage caused by water penetration.

E. Product: TegoBloc SA as manufactured by GMX, Inc.

1. Description: Prefabricated, 60-mil (1.5 mm) self-adhering sheet-type waterproofing membrane.
2. Composition: Multi-layer high-strength polymer film that is coated with a layer of specially formulated rubberized asphalt adhesive.
3. Sealing: Mastic selvedge on both edges for sealing.
4. Release Liners: Protect asphalt, removed as membrane is installed.
5. Technical Properties:
    a. Complies with AAMA 711-13, Level 2.
    b. Material Thickness (ASTM D 1970): 60 Mils (1.5 mm) Nominal.
    c. Pliability (ICC-ES AC 38): Pass.
    d. Vapor Permeance (ASTM E 96): 0.02 g/m^2 Maximum.
    e. Water Resistance (ASTM D 779): Greater than 30 hours
    f. Nail Sealability (ASTM D 1970): Pass.
    g. Tensile Film (ASTM D 882): 7,000 psi
    h. Tensile Membrane (ASTM D 412): 580 psi
    i. Elongation (ASTM D 412): 450%
    j. Installation Temperature Range: Greater than 50 degrees F (10 degrees C).
    k. Material Color: Black.

2.3 ACCESSORIES

A. Primers:
1. Ultra-Guard Primer is a solvent based, non-fibered, quick drying, asphalt-based primer manufactured by GMX, Inc.
2. Ultra-Guard NS Primer is a non-solvent, polymer emulsion-based primer designed to improve the adhesion of self-adhered membranes. NS Primer is applied to cinder block, concrete, OSB, plywood, DensGlass Gold®, Securock, DensDeck® Prime and prepared metal surfaces.

B. Detail Sealant:
1. Ultra-Guard EFS is a high-performance detail and joint sealant for a wide range of construction applications. Ultra-Guard EFS delivers tough, elastic sealing performance, for applications requiring compression and extension greater than 35%.

C. Drainage:
1. Drain-Max 200/220, 500/520 composite mats designed for high compression and high-volume drainage, when used in a vertical application. Choose based on specific project requirements.
2. Drain-Max 680 for a horizontal Plaza Deck,
3. Drain-Max 380 for a Paver Deck,
4. Drain-Max 650 inside a Planter,
5. Drain Max 50 & Drain-Max 100 Green Roof.

D. Termination Bar
1. By Others

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

A. Inspect and prepare substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions.

B. Clean surfaces thoroughly prior to installation. Do not proceed with installation until substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.

C. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.

D. TegoBloc SA adheres to most clean, dry substrates including metal, wood, rigid vinyl, masonry, poured concrete, concrete block, wallboard/mortarboard, foam insulation board and other common building materials such as house wrap. Concrete, OSB, masonry, Densdeck® and Fiberock® must be dry, fully cured and primed with an asphalt-based primer before applying.

E. A primer helps to remove any surface dust or loose material that would inhibit good adhesion. Clean, dry wood and metal surfaces do not require priming. Prime weathered surfaces as needed.

F. It is the contractor's responsibility to ensure adequate adhesion. When applying on vertical concrete surfaces, a termination bar is recommended around the top.

3.2 INSTALLATION

Install in accordance with manufacturer's instructions including the following:

1. Apply in clear, dry weather.
2. Surface must be clean, dry, continuous and free from oil.
3. Masonry must be clean, fully cured and primed with an asphalt primer, or a smooth parge coat of grout that forms a flat surface.
4. Prime weathered surfaces as necessary - clean, dry, wood and metal surfaces do not require priming.
5. Use 3 inches (76 mm) side laps and 6 inches (152 mm) head laps.
6. Apply uniform pressure with a 2 to 3 inches (51 to 76 mm) hand roller to entire surface.
7. Do not install over solvent-based sealants unless the sealants are fully cured - active solvents may liquefy adhesive surface.
8. Test for compatibility with caulks and sealants.
9. Do not install over flexible vinyl gaskets.
10. Horizontal installations require two courses of membrane installed perpendicular to each other.
11. Do not expose installed product to direct sunlight for more than 90 days.

3.3 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION 07 13 26

TegoBloc SA

7 FLUID APPLIED | Membrane Waterproofing

PRODUCT DESCRIPTION

TegoBloc SA is a prefabricated, self-adhering waterproofing sheet. It is composed of a durable, multi-layer polymer film which is coated with a proprietary rubberized asphalt adhesive. A release sheet protects the asphalt membrane and prevents the roll from sticking to itself while it is stored and handled. The release sheet is removed as the membrane is installed.

TegoBloc SA is specifically engineered for vertical and horizontal below grade waterproofing applications where the membrane is protected from long term ultraviolet exposure. It adheres aggressively to most clean, dry substrates including metal, wood, vinyl and masonry. Typical applications include waterproofing foundation walls, plaza decks, and balconies. It can also be used under siding, exterior plaster and as a through wall flashing.

TegoBloc SA is available in both 40 and 60 mil thicknesses. The 60-mil version is also available in a low temperature formulation.

Additional product benefits include:

- Factory formulation which ensures uniform film thicknesses and dependable waterproofing protection.
- A rubberized adhesive layer with self-sealing capability to accommodate the use of fasteners, staples and screws.
- A rubberized adhesive layer with excellent elongation capability and tensile strength to accommodate the expansion and contraction of the substrate.
- Compatibility with most construction sealants and primers.
- Multiple layers of flexible, rubberized asphalt waterproofing protection which provide a belt and suspenders approach to leak control.
- Superior adhesion to poured concrete and concrete block which simplifies installation and eliminates water migration under the Ultra-Shield Self-Stick Membrane.
- It is compatible with a wide range of insulation, drainage and protection products.

Storage and Handling Considerations: Store materials in a dry area and protect from direct sunlight. Ideally, the materials should be stored inside in a temperature-controlled environment (interior temperatures between 60–80°F). Any materials exposed to the elements should be elevated above the ground and covered by a tarpaulin. Materials should not be exposed to excessive heat or direct flame.

TegoBloc SA should not be applied during inclement weather and the installation should not proceed if precipitation is probable during the application. Consult your local GMX representative or the GMX Technical Department for application recommendations when application temperatures are less than 25°F. Store waterproofing materials at room temperature until immediately prior to use when the ambient temperature is less than 40°F.

INSTALLATION

The surface over which the membrane is to be applied should be clean, dry, reasonably smooth and free of dust, dirt, voids, cracks and sharp projections. The surface must be structurally sound. Shrinkage and stress cracks should be addressed separately with an additional ply of membrane prior to the application of the primary waterproofing systems. New concrete surfaces must cure a minimum of 7 days for normal structural concrete and 14 days for lightweight structural concrete. Remove forms as soon as possible form below horizontal slabs to prevent moisture entrapment. Cure concrete with clear, resin-based curing compounds containing no oil, wax or pigment. On masonry surfaces, apply a large coat to the concrete block.

Horizontal Surface Application: Prime the surface to be waterproofed with Ultra-Guard Primer applied at a rate of 1 gallon per 100 sq.ft.. Apply the membrane from the low point to the high point so that the laps shed water. Remove the release paper from the underside of the sheet and roll the sheet directly onto the primed substrate in a manner that minimizes voids and wrinkles. Take care to ensure proper lap alignment. Side laps are 3 inches and head laps are 6 inches. Stagger all end laps. The adhesive is pressure activated. Seal membrane laps together as the sheet is applied taking care to apply pressure to both the sheet and lap. Roll the entire membrane firmly as soon as possible after application.

Use a linoleum roller or standard water filled garden roller to ensure proper adhesion. Apply sufficient pressure to ensure that there are no voids, wrinkles or fish mouths.

Flash all membrane penetrations according to the installation details outlined in the waterproofing section of the current edition of the National Roofing and
Waterproofing Contractors Manual. Seal all T joints and membrane terminations with an appropriate mastic.

Vertical Surface Application: Prime the surface to be waterproofed with Ultra-Guard Primer applied at a rate of 1 gallon per 100 sq.ft. Apply the membrane in lengths up to 8 feet. On higher walls, apply the membrane in two or more sections. Overlap all seams a minimum three inches. Roll the membrane with a hand roller to ensure complete adhesion with no voids, wrinkles or fish mouths. Terminate the membrane at grade level. The top edge of the membrane should be secured with a termination bar or secured into
a regret. Seal all membrane laps with an appropriate asphalt-based mastic. Flash all membrane penetrations according to the installation details outlined in the waterproofing section of the current edition of the National Roofing and Waterproofing Contractors Manual.

Protection, drainage or insulation board must be installed over TegoBloc SA to protect the membrane from damage by the backfill, to assist in draining water away from the foundation and/or to insulate the foundation wall. On horizontal surface applications, install the wearing surface or backfill within 24 to 72 hours after completion of the waterproofing membrane. If surfaces are exposed to the sun or if the waterproofing is being performed
in extremely hot weather, backfilling should be done within 24 hours after membrane installation.

AVAILABILITY AND COST

GMX materials are produced in and shipped from our plant in Monroe, NC. For the name and number of the nearest GMX representative, call us at 866-228- 7743. Our representatives can provide pricing and put you in contact with our nearest stocking distributor.

TegoBloc SA

7 FLUID APPLIED | Membrane Waterproofing

WARRANTY

GMX warrants its material, and its systems provided our materials are applied in accordance with the published installation guidelines in effect at the time of application. For specific warranty terms and conditions, contact your local GMX representative.

TECHNICAL SERVICES

Your local GMX representative is available to assist you in selecting the appropriate product and to provide on-site application assistance. For further information, please contact our Technical Service Dept. at 866-228-7743.

May help to contribute to LEED® credits:	
EA Credit 1:	Optimize Energy Performance
EQ Credit 3.1:	Construction IAQ Management Plan: During Construction
EQ Credit 4.2:	Low Emitting Materials: Paints and Coatings
MR Credit 5.1:	Regional Materials: 10% Extracted, Processed and Manufactured Regionally
MR Credit 5.2:	Regional Materials: 20% Extracted, Processed and Manufactured Regionally

TECHNICAL SERVICES | PRODUCT SPECIFICATIONS

Type: TegoBloc SA60 | 40

	60	**40**
Thickness (ASTM D 3767)	60 mils min.	42 mils +/- 5 mils
Tensile Strength (ASTM D 412)	580 p.s.i.	580 p.s.i.
Elongation (ASTM D 412)	450% min.	450% min.
Water Absorption (ASTM D 1228 0.21%)	No effect	0.0021
Pliability @ -35˚ F (-35˚C) (ASTM D 1970)	0.008 max	0.008 max
Crack Cycling (ASTM C 836/C 836M) Unaffected after 100 cycles of 1/8" movment	unaffected	unaffected
Puncture Resistance (ASTM E154/M154M) 40 lbf min	> 50 lbs	> 50 lbs
Low-Temperature Flexibility (ASTM D 1970/D1970M)	pass	pass
Hydrostatic-Head Resistance (ASTM D5385) 200 ft min.	>200 ft.	>200 ft.
Application Temperature	> 50°F 25–55°F	> 50°F 25–55°F
Color	Black	Black
Roll Length	60 ft. 60 ft.	60 ft. 60 ft.
Roll Width	36" 36"	36" 36"
Carton Weight	70 lbs. 70 lbs.	70 lbs. 70 lbs.
Coverage	180 sq.ft. 180 sq.ft.	180 sq.ft. 180 sq.ft.

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ULTRA-GUARD PRIMER

7 FLUID APPLIED | Membrane Waterproofing

PRODUCT DESCRIPTION

Ultra-Guard Primer is a non-fibered, quick drying, asphalt-based primer used in many applications with different membrane systems. It is formulated from specially refined asphalt and top-quality penetrating oils. Ultra-Guard Primer penetrates deep into the pores of masonry and concrete to give an elastic bonding surface for GMX membrane systems. It can also be used to prime metal, masonry surfaces and bare concrete roof decks. Ultra-Guard Primer meets and exceeds ASTM D 41.

PRODUCT ADVANTAGES

Self-Adhered and Hot Fluid Applied: Ultra-Guard Primer's penetrating oil allows for a long-lasting flexible bond between GMX Hot Fluid-Applied & GMX Self-Adhered Waterproofing Membrane Systems.

Economical: Ultra-Guard Primer is formulated to provide maximum per gallon coverage.

Provides Maximum Surface Adhesion: Ultra-Guard Primer ensures a long-lasting flexible bond between the substrate and the GMX waterproofing membrane.

Dries Quickly, Reduces Total Job Time: Ultra-Guard Primer is formulated to dry tack-free within 30 – 40 minutes at 77°F (25°C).

APPLICATION

The surface should be clean and dry prior to an application of Ultra-Guard Primer. Any failed previous coating or improperly bonded material must be removed. Ultra-Guard Primer can be applied by spray, brush, or roller. In cold weather, keep the material in a heated area prior to use.

Please refer to the specific membrane application instructions for detailed information about installation and temperature constrains for that specific GMX waterproofing system.

AVAILABILITY AND COST

GMX materials are produced in and shipped from our Monroe, NC plant. For the name and number of the nearest GMX representative and/or pricing, call us at 866-228-7743.

WARRANTY

GMX warrants its material to be from defects at the time of delivery and may offer a commercial warranty, provided our materials are applied in accordance with the published specifications in effect at the time of installation. For specific warranty terms and conditions, contact your local GMX representative.

TECHNICAL SERVICES

Your local GMX representative is available to assist you in selecting the appropriate product and to provide onsite application assistance. For further information, please contact our Technical Service Dept. at 866-228-7743.

ULTRA-GUARD PRIMER

7 FLUID APPLIED | Membrane Waterproofing

TECHNICAL DATA | PRODUCT SPECIFICATIONS
Type: Ultra-Guard Primer

Viscosity (ASTM D 4212) by Zahn Cup #2	18/21 sec.
Distillation (ASTM D 402) Volume @ 370°F (188°C) Volume to 380°F (193°C) Penetration of Residue, mm/10 Softening Point of Residue	35% min 55% max 10 – 30 170 – 190°F (77°C-88°C)
Wet Film Thickness @ 1/2-1 gal. (1.9-3.8 l)	8-16 mils (203.2-406.4 microns)
Coverage	75 – 125 sq. ft./gal (1.84 – 3.07 m2/l)
Packaging	5-gallon pail (19 l)

May help to contribute to LEED® credits:

EA Credit 1:	Optimize Energy Performance
EQ Credit 3.1:	Construction IAQ Management Plan: During Construction
EQ Credit 4.2:	Low Emitting Materials: Paints and Coatings
MR Credit 5.1:	Regional Materials: 10% Extracted, Processed and Manufactured Regionally
MR Credit 5.2:	Regional Materials: 20% Extracted, Processed and Manufactured Regionally

Eco-Facts:

VOC	450 g/l

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ULTRA-GUARD NS PRIMER

7 FLUID APPLIED | Membrane Waterproofing

PRODUCT DESCRIPTION

NS Primer is a polymer emulsion-based primer designed to improve the adhesion of self-adhered membranes. NS Primer is applied to cinder block, concrete, OSB, plywood, DensGlass Gold®, Securock, DensDeck® Prime and prepared metal surfaces.

Improved Adhesion: NS Primer increases the adhesion of all self-adhering membranes and, in some cases, even increases the adhesion by as much as four times the adhesion without primer.

Reduces Total Job Time: NS Primer is formulated to dry tack-free within 2 hours at 77°F (25°C).

Environmentally Friendly: NS Primer eliminates the flammability and toxicity hazards associated with solvent-based primers. NS Primer has no irritating or unpleasant odors.

APPLICATION INSTRUCTIONS

All surfaces must be in sound condition and free of dirt, debris, and dust. Do not apply to wet surfaces, as this will dilute the primer, reducing its effectiveness. Apply NS Primer at a rate of 0.5 gal/square (0.21 l/m2) to properly prepared substrates using a medium nap roller or spray equipment (a 0.0155-0.021 inch spray tip orifice and a minimum spray pressure of 500 psi are recommended). Avoid “puddling” the primer. One coat is recommended.

Immediately rinse equipment and tools with water after use. If the material has cured, clean with mineral spirits, using flammable liquid precautions. If skin contact is made, rinse using waterless hand cleaner.

AVAILABILITY AND COST

GMX materials are produced in and shipped from our North Carolina plant. For the name and number of the nearest GMX representative and/or pricing, call us at 866-228-7743.

WARRANTY

GMX warrants its material to be free from defects at the time of installation and will offer a commercial warranty provided our materials are installed in accordance with the published application guidelines in effect at the time of installation. For specific warranty terms and conditions, contact your local GMX representative.

PRECAUTIONS

- Do not allow the product to freeze, do not store in temperatures above 120˚F (48˚C).
- Do not place in contact with potable water.
- Do not thin.
- Exterior use only.
- Do not use if heavy rain or dew is expected or if temperatures are expected to drop below 50°F (10°C) within 6 hours of application
- Do not install if the outside air temperature is above 95˚F (35˚C)
- Primer must be covered within 48 hours of application, or an additional coat of primer must be applied.

TECHNICAL SERVICES

Your local GMX representative is available to assist you in selecting the appropriate product and to provide on-site application assistance. For further information, please contact our Technical Service Dept. at 866-228-7743.

NOTE: May help to contribute to LEED® credits

TECHNICAL DATA | PRODUCT SPECIFICATIONS
Type: Ultra-Guard NS Primer

Density: (ASTM D 1475)	8.75 lbs./gal
Non-Volatile (ASTM D 3960) by Weight by Volume	42-46% 40-44%
Viscosity @77°F (25°C) Brookfield RVT, #4 Spindle; 10 rpm (ASTM D 2196)	2000-4000 CPS
Drying Time @ 70°F (21.1°C); 50% RH To Touch	2 hours
Color	Blue
Shelf Life	1 year
Coverage dependant on the substrate	1/3 to 1/2 gal. per 100 sq. ft. (0.13-0.20 l/m^2)
Packaging	5 gal. pail (18.9 l) 55 gal pail (208.2 l)
VOC	< 50 g/L

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ULTRA-GUARD EFS

Multi-purpose Sealant

PRODUCT DESCRIPTION

Ultra-Guard EFS is a high-performance joint sealant for a wide range of construction applications. Ultra-Guard EFS delivers tough, elastic sealing performance, for joints requiring compression and extension greater than 35%.

PRODUCT INFORMATION: FEATURES & BENEFITS

- Solvent and isocyanate free, 100% solids
- Non-silicone
- Non-flammable
- Fast-curing
- Primerless bonding to most surfaces
- Paint compatible
- Low odor
- Extremely low shrinkage
- Non-staining
- Mildew resistant

STANDARDS & COMPLIANCE

- May contribute to LEED V4 EQ Material Resource Credit 4.1 - Adhesives and Sealants
- ASTM C920, Type S, Grade NS, Class 35 Uses NT, T, G, A & O
- Federal Specification TT-S-00230-C Type II, Class B
- Corps of Engineers CRD-C-541, Type II, Class B
- Conforms to OTC Rule for Sealants and Caulks
- Meets requirements of California Regs: CARB, BAAQMD and SCAQMD
- Conforms to USDA Requirements for Non-food Contact

COMMON APPLICATIONS

- Roofing
- Parapets
- Window and door frames
- Block and Masonry
- Expansion Joints
- Siding
- Weather Sealing
- Cove Joints
- Below-grade Waterproofing penetrations and transition details

HIGH PERFORMANCE DURABILITY

- Ultra-Guard EFS can be installed on damp surfaces which is defined as when no moisture is transferred to the skin when the substrate is touched.
- The cured bead exhibits excellent long-term adhesion to the porous surfaces.
- Does not dry or become brittle.
- Low odor, ideal for indoor and outdoor use

TYPICAL PROPERTIES

Please contact your GMX Sales Representative before writing specifications around this product. Product properties are as follows:

Property	Typical Value	Units	Test Method
VOC's	34.5 g/L		EPA Test Method 24
Skinover time @ 50% R.H. 70 deg F	30	Min.	ASTM C679
Density	127	#/gal	
Hardness	50	Shore A	
Shear Strength	185.7	psi	ASTM D1002
Peel Strength ABS Plastic Aluminum Mortar Glass Pine PVC Cold Rolled Steel	 12.7 25.1 25.7 26.7 24.0 25.8 23.9	lbf/in.	ASTM D903
Tensile	268	psi	ASTM D412
Elongation at Break	259	%	ASTM D412
Chemistry	Hybrid Polymer		
Movement	+/- 35%		ASTM C920
Shrinkage	0%		
Service Temperature	40°F - 200°F		
Viscosity	2,730,000 1,555,000 460,000	cps @ 1 rpm cps @ 2 rpm cps @ 10 rpm	ASTM D2196-10

Ultra-Guard EFS typical values represent data from multiple batches. Values will be refreshed, as necessary, upon data collection from additional campaigns and long-term variability discernment.

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ULTRA-GUARD EFS

APPLICATION
Remove all dirt, oil, loose paint, frost and other contamination from all working surfaces. Maintain Ultra-Guard EFS at room temperature before applying to ensure easy gunning and tooling. Test and evaluate to ensure adequate adhesion. Carefully gun the sealant with a smooth, continuous bead. If tooling is needed, do so within fifteen minutes of application.

CONCRETE
Prior to application remove any residual contamination by mechanical abrasion, sand blast- ing or power washing. On green concrete, remove all release agents and loose concrete.
Dry all visible and/or standing water. Install an appropriate backer rod to avoid three-point bonding.

METAL
Prepare all metal to ensure maximum adhesion. Remove all rust, scale and residue using a wire brush. Remove films, loose or inappropriate coatings and oils with an appropriate solvent such as alcohol.

*GMX recommends that coated substrates be tested for proper adhesion prior to starting a project to determine suitability for use.

WOOD
Wood should be clean, sound and dry prior to sealant application. Allow treated wood to weather for six months prior to application. Remove all coatings and paint to ensure proper adhesion. Ultra-Guard EFS is not recommended for use on fire retardant lumber.

PRIMING
In most applications Ultra-Guard EFS will not require a primer. However, certain substrates may require a primer to ensure a long-lasting bond and weatherproof seal. It is the applicator's responsibility to determine whether or not a primer is needed in their specific application.

CLEAN-UP
Clean tools and any uncured adhesive with mild solvent such as mineral spirits.

MATERIAL STORAGE/DISPOSAL
Store securely between 60° F - 80° F in unopened container. Recommended shelf life is 12 months from date of manufacture on bottom of tube. Keep tube tightly sealed. Dispose of contents/ container in accordance with Local/Regional/National/International Regulations. Refer to Safety Data Sheet (SDS) for further information.

SHELF LIFE AND STORAGE
The shelf life is 12 months for an unopened container from the date of manufacture. Reference the date of manufacture. YYMMDD ex. 190522 is May 22, 2019.

COLORS
Available only in BLACK

PACKAGING
There are 12, 20 oz. sausages in a case.

WARRANTY
GMX warrants that our products are manufactured and conform to strict quality assurance specifications. For warranty information visit: www.gmxwaterproofing.com/terms

LIMITATIONS
Ultra-Guard EFS should not be used in applications in which it will be permanently exposed to liquid water.

PRECAUTIONARY STATEMENTS
Do not use until all instructions and safety precautions have been read and understood. Wear protective gloves, protective clothing and eye protection. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.
IF ON SKIN: Wash exposed body areas with soap and water.
IF IN EYES: Rinse with water, remove contact lenses and continue rinsing. If exposed or concerned get medical advice/attention.
Refer to Safety Data Sheet (SDS) for further information.

A Subsidiary of Garland Industries
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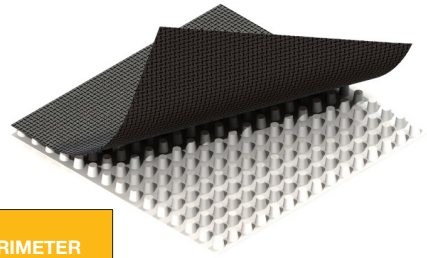
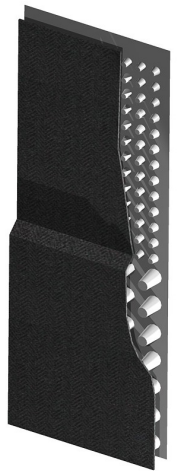
DRAIN-MAX®

GMX COMMERCIAL

DrainMax prefabricated drains combine a formed polymeric drainage core with a filter fabric bonded to one side. The filter fabric is bonded to each dimple to prevent soil intrusion into the core flow channels while allowing water to freely enter the drain core. The core provides an uninterrupted path for water to flow to designated drainage exits.

The GMX DrainMax Sheet & Total Drain are an economical solution for reducing hydrostatic pressure against structures and protecting & enhancing the life and performance of waterproofing membranes.





TYPICAL PROPERTY VALUES	ASTM Test Method	Unit of Measure	VERTICAL (4' x 50' Rolls)			HORIZONTAL (4' x 50' Rolls)		VERTICAL (6' x 50' Rolls)			HORIZONTAL (6' x 50' Rolls)	PERIMETER
FABRIC			**200**	**500**	**520**	**350**	**650**	**P-200**	**P-500**	**P-520**	**P-650**	**TOTAL DRAIN**
Material [1]			PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
Water Flow Rate	D 4491	gpm/ft²	165	165	165	160	160	150	150	150	160	150
		Lpm/m²	6,724	6,724	6,724	6,520	6,520	6,113	6,113	6,113	6,520	6,113
Grab Tensile Strength	D 4632	lbs	100	100	100	385 x 220	385 x 220	115	115	115	385 x 220	115
		N	445	445	445	1,713 x 979	1,713 x 979	512	512	512	1,713 x 979	512
CBR Puncture Strength	D 6241	lbs	275	275	275	725	725	320	320	320	725	320
		kN	1.22	1.22	1.22	3.22	3.22	1.41	1.41	1.41	3.22	1.41
Apparent Opening Size	D 4751	sieve	70	70	70	45	45	70	70	70	45	70
		mm	0.21	0.21	0.21	0.35	0.35	0.21	0.21	0.21	0.35	0.21
Grab Elongation	D 4632	%	65	65	65	15	15	70	70	70	15	70
UV Resistance	D 4355	% / 500 Hrs	70	70	70	90	90	70	70	70	90	70
CORE			**200**	**500**	**520**	**350**	**650**	**P-200**	**P-500**	**P-520**	**P-650**	**TOTAL DRAIN**
Material [1]			HIPS	HIPS	HIPS	HIPS	HIPS	PP	PP	PP	PP	HIPS
Thickness	D 1777	in	0.25	0.44	0.44	0.25	0.44	0.40	0.44	0.44	0.40	0.44 / 1.0
		mm	6.35	11.0	11.0	6.35	11	10	10	10	10	11 / 25.4
Compressive Strength	D 1621	psf	11,000	15,000	15,000	30,000	18,000	11,000	15,000	15,000	18,000	9,000
		kPa	527	718	718	1,436	862	527	718	718	862	431
Flow Rate [2]	D 4716	gpm/ft	12.5	17.0	17.0	13	13	18	18	18	21	80
		Lpm/m	155	211	211	161	161	224	224	224	261	994
Recycled Content		% Weight	74%	77%	74%	74%	74%	–	–	–	–	83%

1 - PP = Polypropylene; HIPS = High Impact Polystyrene
2 - In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 1.0.

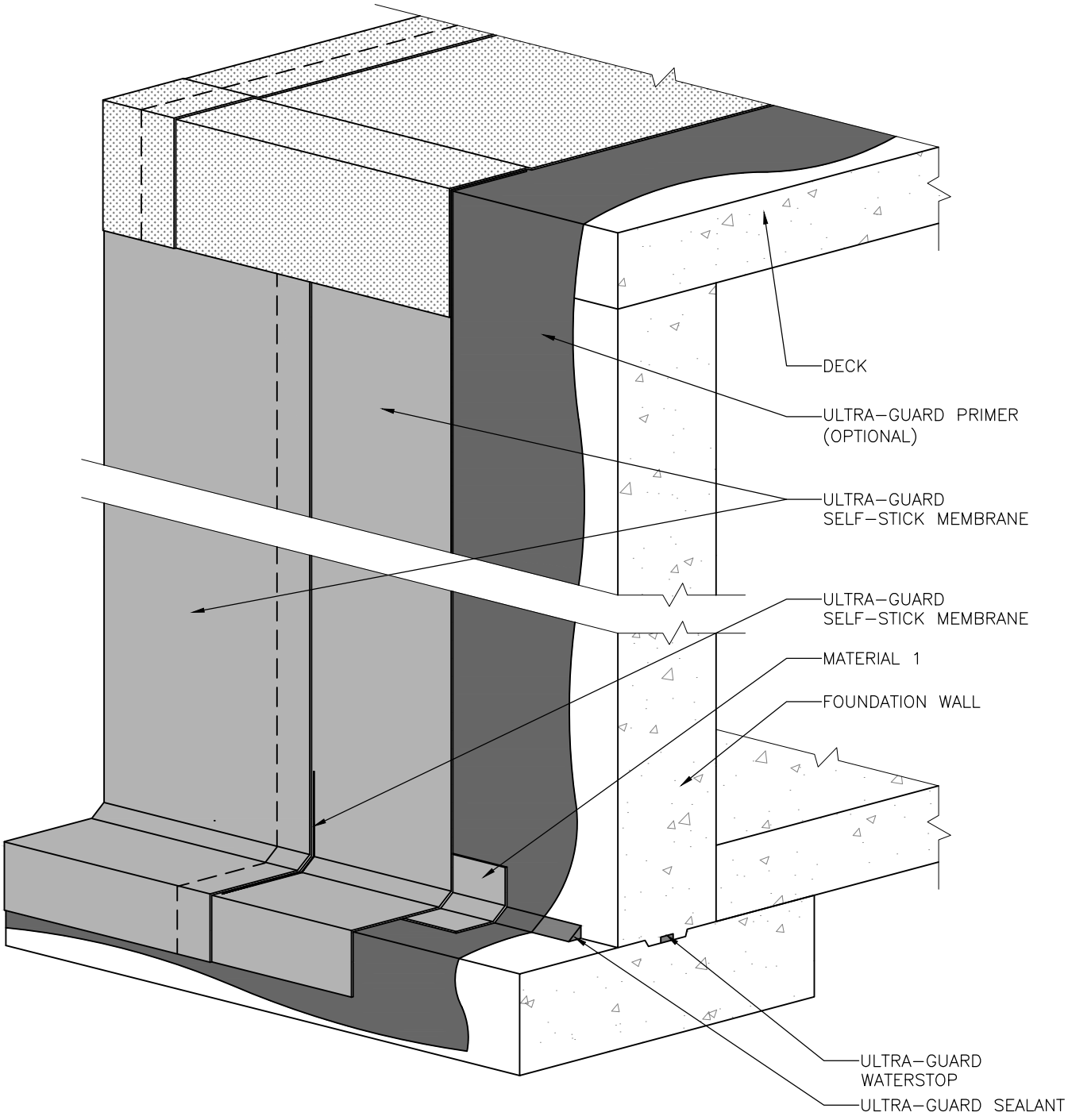
GMX A Subsidiary of Garland Industries

GMX, INC. ISO 9001:2015 REGISTERED CO

GMX, Inc.
3014 Chamber Dr.
Monroe, NC 28110
Toll Free: 866-228-7743
www.gmxwaterproofing.com

FILENAME: SelfStick_all dtls.dwg

NOTES:
1. SYSTEM DETAIL SHOWN AS TYPICAL APPLICATION FOR A CONCRETE FOUNDATION WALL AND DECK.
2.



DRAWINGS ON $8\frac{1}{2}$"x11 TITLE BLOCKS ARE NOT TO SCALE.

ULTRA-GUARD SELF-STICK MEMBRANE SYSTEM DETAIL

GMX
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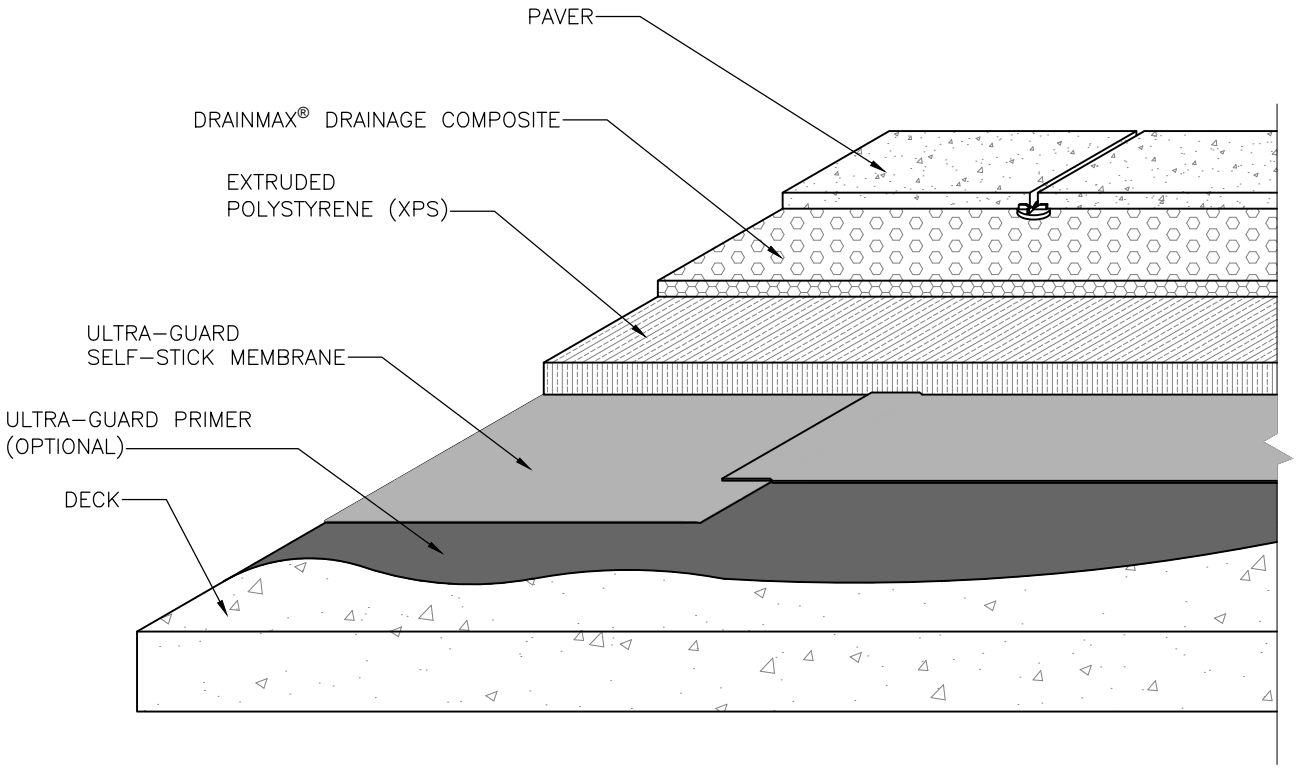
DETAIL ID:	SS-01a
REPRESENTATIVE:	
DATE: 12-02-21	SHT: OF

FILENAME: SelfStick_all dtls.dwg

NOTES:
1. SYSTEM DETAIL SHOWN AS TYPICAL APPLICATION FOR AN INSULATED CONCRETE PLAZA DECK.
2. APPLICATION OF ULTRA-GUARD SELF-STICK MEMBRANE BEGINS IN THE DRAIN AND PROCEEDS TOWARD THE HIGH POINT IN A SINGLE FASHION.
3. DRAINAGE MAY BE FACILITATED BY USING DRAINAGE TYPE POLYSTYRENE INSULATION. ON NON-INSULATED ASSEMBLIEDS, A GEOCOMPOSITE DRAINAGE BOARD MAY BE USED.



DRAWINGS ON $8\frac{1}{2}$"x11 TITLE BLOCKS ARE NOT TO SCALE.

ULTRA-GUARD SELF-STICK MEMBRANE SYSTEM DETAIL

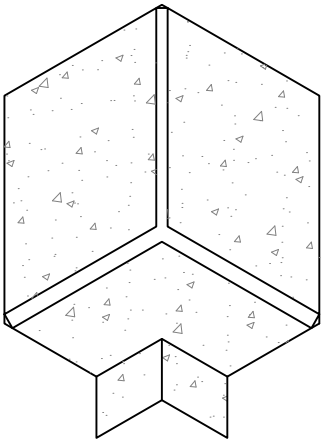
GMX
A Subsidiary of Garland Industries

DETAIL ID:	SS-01b
REPRESENTATIVE:	
DATE: 12-02-21	SHT: OF

FILENAME: SelfStick_all dtls.dwg

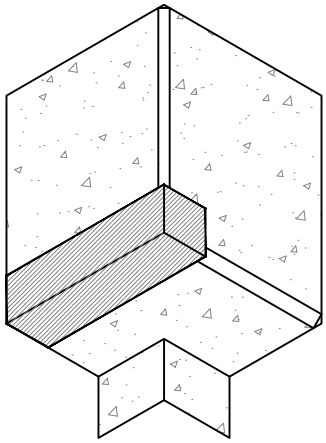
NOTES:

1. ALL SUBSTRATES TO RECEIVE ULTRA–GUARD SELF–STICK MEMBRANE MUST BE PRIMED WITH ULTRA–GUARD PRIMER.
2. A 9" REINFORCING STRIP OF ULTRA–GUARD SELF–STICK MEMBRANE IS APPLIED AT 90 DEGREE CHANGES IN PLANE.
3. FIRMLY ROLL MEMBRANE WITH COUNTERTOP–STYLE ROLLER IMMEDIATELY AFTER INSTALLATION.
4. SEAMS WITHIN 12" OF CHANGE–IN–PLANE MUST BE SEALED WITH ULTRA–GUARD SEALANT.
5. SEE SPECIFICATIONS FOR COMPLETE REQUIREMENTS.



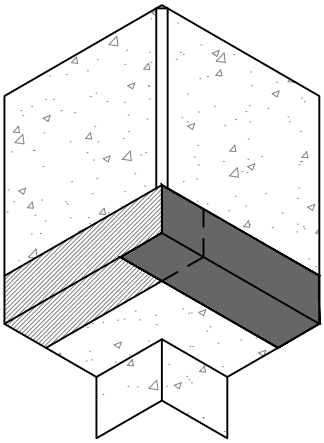
STEP 1

AT HORIZONTAL AND VERTICAL CORNERS, APPLY FILLET BEAD OF ULTRA–GUARD SEALANT TO CLEANED, PREPARED AND PRIMED SUBSTRATE



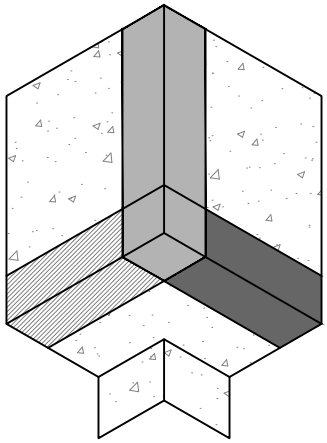
STEP 2

PRESTRIP TRANSITION AREA AS SHOWN WITH 9" MIN. WIDE ULTRA–GUARD SELF–STICK MEMBRANE PAST INSIDE CORNERS



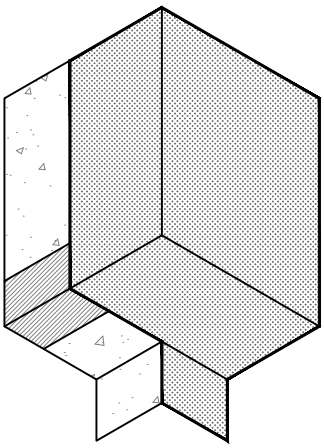
STEP 3

CONTINUE TO PRESTRIP TRANSITION AREA AS SHOWN WITH 9" MIN. WIDE ULTRA–GUARD SELF–STICK MEMBRANE INTO CORNER. SEAL CUT EDGES WITH ULTRA–GUARD SEALANT



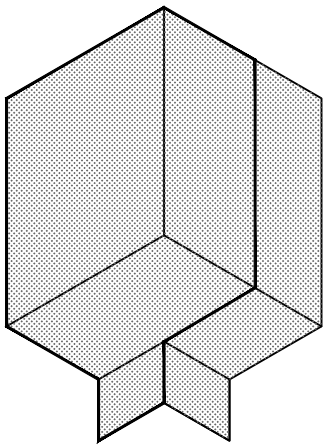
STEP 4

APPLY 9" MIN. WIDE ULTRA–GUARD SELF–STICK MEMBRANE VERTICALLY AS SHOWN TO INSIDE CORNERS



STEP 5

EXTEND ULTRA–GUARD SELF–STICK MEMBRANE A MIN. OF 8" PAST INSIDE CORNER AND DOWNWARD OVER FOOTING AS SHOWN. CREATE FLAP IN EXCESS MEMBRANE AS SHOWN AND FOLD DOWNWARD ONTO HORIZONTAL SURFACE. SEAL EDGES WITH ULTRA–GUARD SEALANT



STEP 6

CONTINUE FIELD APPLICATION WITH ULTRA–GUARD SELF–STICK MEMBRANE EXTENDING DOWNWARD OVER FOOTING AS SHOWN. SEAL ALL SEAMS AND TERMINATIONS LOCATED WITH 12" OF CHANGE–IN–PLANE WITH ULTRA–GUARD SEALANT

DRAWINGS ON $8\frac{1}{2}$"x11 TITLE BLOCKS ARE NOT TO SCALE.

ULTRA-GUARD SELF-STICK MEMBRANE INSIDE CORNER DETAIL

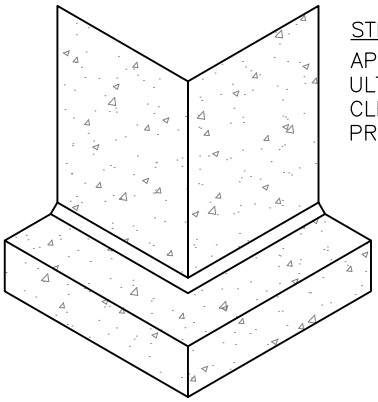
GMX
A Subsidiary of Garland Industries

DETAIL ID:	SS-
REPRESENTATIVE:	
DATE: 12-02-21	SHT: OF

FILENAME: SelfStick_all dtls.dwg

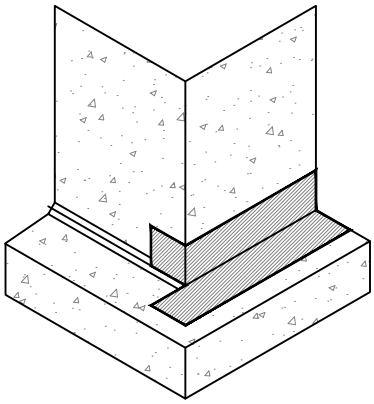
NOTES:

1. ALL SUBSTRATES TO RECEIVE ULTRA–GUARD SELF–STICK MEMBRANE MUST BE PRIMED WITH ULTRA–GUARD PRIMER.
2. A 9" REINFORCING STRIP OF ULTRA–GUARD SELF–STICK MEMBRANE IS APPLIED AT 90 DEGREE CHANGES IN PLANE.
3. FIRMLY ROLL MEMBRANE WITH COUNTERTOP–STYLE ROLLER IMMEDIATELY AFTER INSTALLATION.
4. SEAMS WITHIN 12" OF CHANGE–IN–PLANE MUST BE SEALED WITH ULTRA–GUARD SEALANT.
5. SEE SPECIFICATIONS FOR COMPLETE REQUIREMENTS.



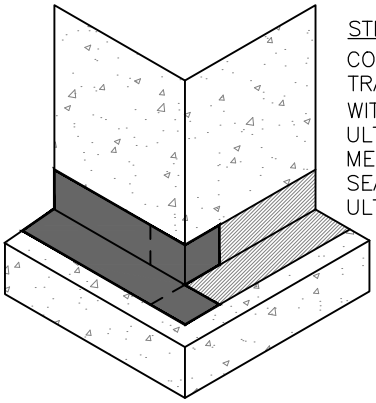
STEP 1

APPLY FILLET BEAD OF ULTRA–GUARD SEALANT TO CLEANED, PREPARED AND PRIMED SUBSTRATE



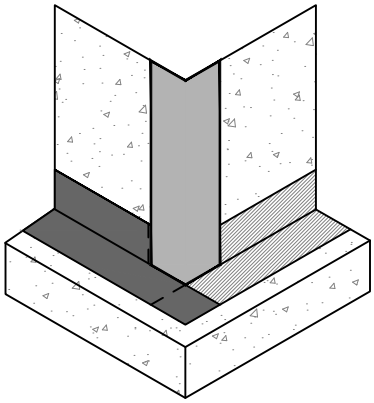
STEP 2

PRESTRIP TRANSITION AREA AS SHOWN WITH 9" MIN. WIDE ULTRA–GUARD SELF–STICK MEMBRANE AROUND OUTSIDE CORNERS



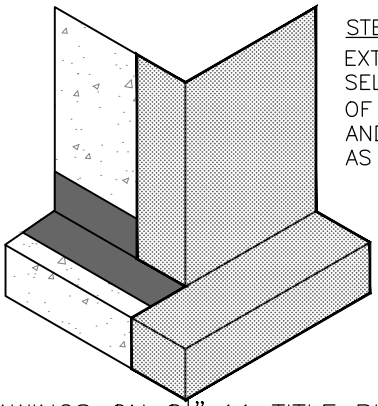
STEP 3

CONTINUE TO PRESTRIP TRANSITION AREA AS SHOWN WITH 9" MIN. WIDE ULTRA–GUARD SELF–STICK MEMBRANE AROUND CORNER. SEAL CUT EDGES WITH ULTRA–GUARD SEALANT



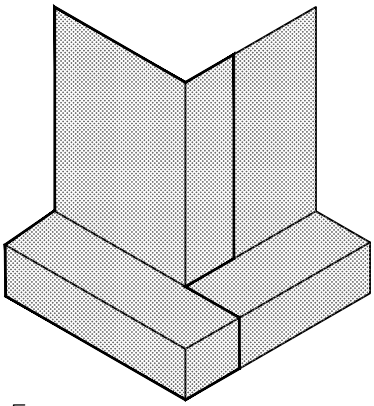
STEP 4

APPLY 9" MIN. WIDE ULTRA–GUARD SELF–STICK MEMBRANE VERTICALLY AS SHOWN TO OUTSIDE CORNER



STEP 5

EXTEND ULTRA–GUARD SELF–STICK MEMBRANE A MIN. OF 8" PAST OUTSIDE CORNER AND DOWNWARD OVER FOOTING AS SHOWN.



STEP 6

CONTINUE FIELD APPLICATION BY APPLYING FULL WIDTH OF ULTRA–GUARD SELF–STICK MEMBRANE EXTENDING DOWNWARD OVER FOOTING AS SHOWN.

DRAWINGS ON 8$\frac{1}{2}$"x11 TITLE BLOCKS ARE NOT TO SCALE.

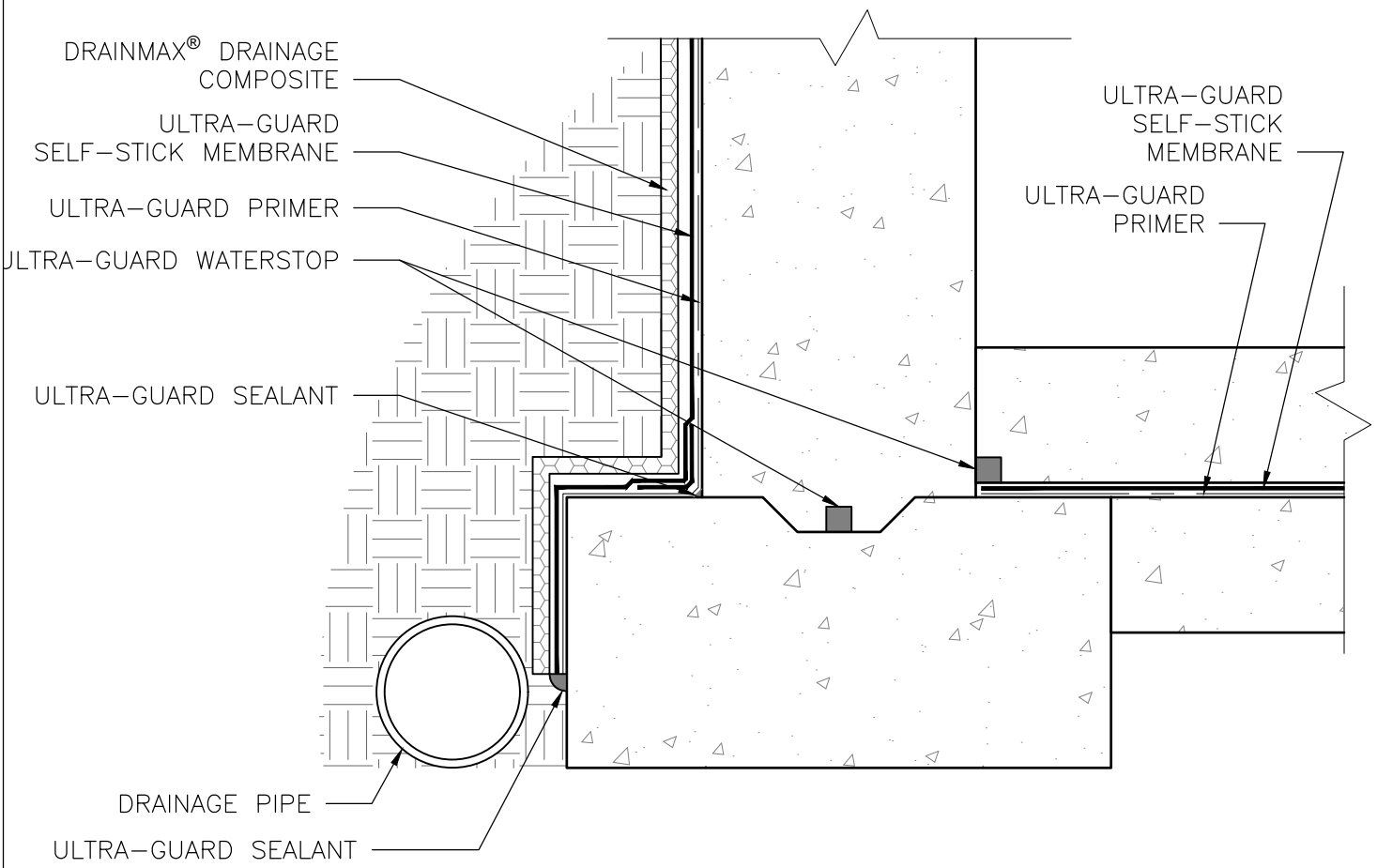
ULTRA-GUARD SELF-STICK MEMBRANE OUTSIDE CORNER

GMX
A Subsidiary of Garland Industries

DETAIL ID:	SS-
REPRESENTATIVE:	
DATE: 12-02-21	SHT: OF

FILENAME: SelfStick_all dtls.dwg

NOTES:
1. A 9" REINFORCING STRIP OF ULTRA-GUARD SELF-STICK MEMBRANE IS APPLIED AT 90 DEGREE CHANGES IN PLANE.
2. TERMINATIONS IN THE MEMBRANE ARE SEALED USING ULTRA-GUARD SEALANT.



FOUNDATION WALL/FOOTING DETAIL

DRAWINGS ON 8½"x11 TITLE BLOCKS ARE NOT TO SCALE.

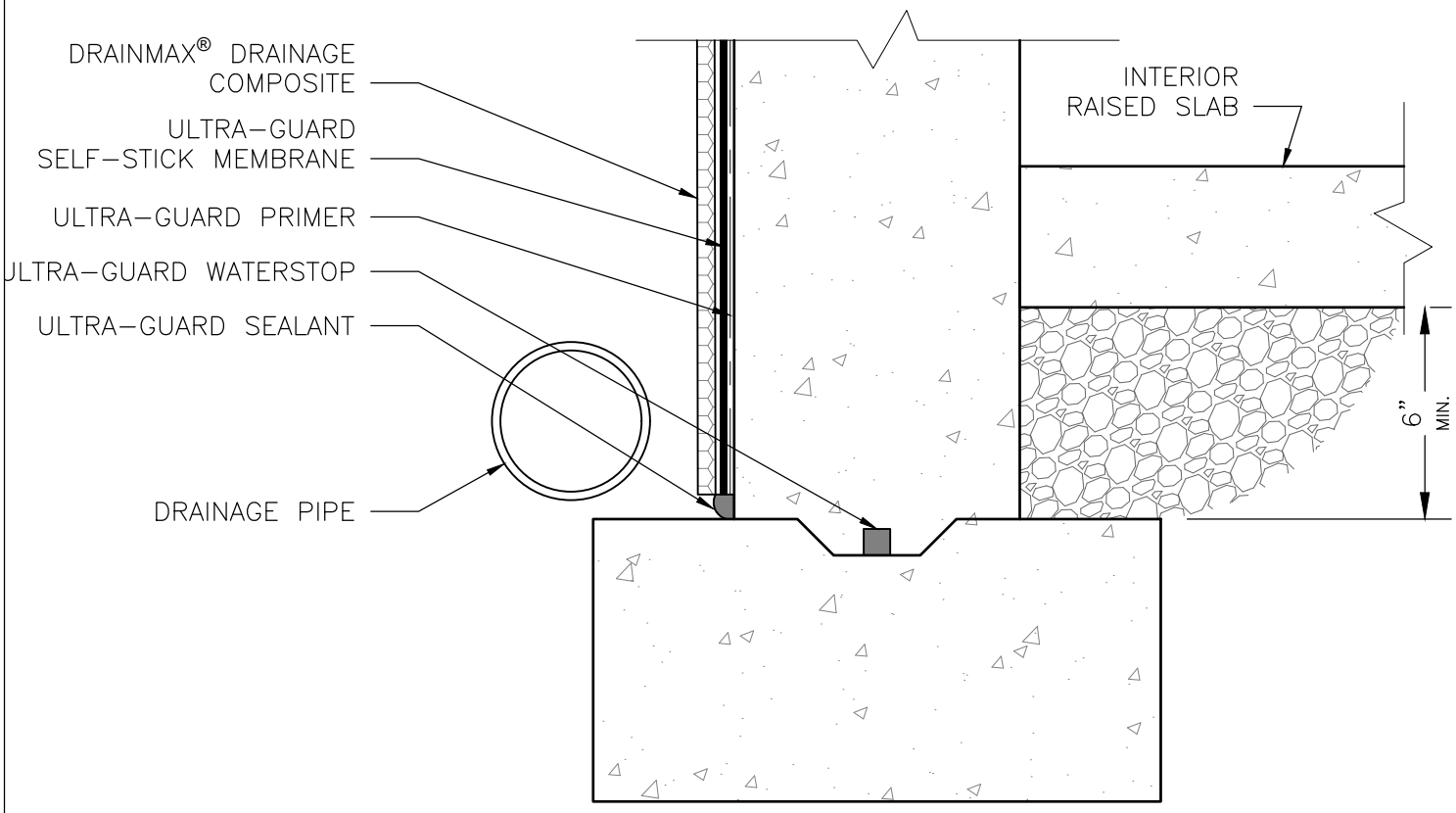
ULTRA-GUARD SELF-STICK MEMBRANE FOUNDATION WALL/FOOTING DETAIL

GMX
A Subsidiary of Garland Industries

DETAIL ID:	SS-
REPRESENTATIVE:	
DATE: 12-02-21	SHT: OF

FILENAME: SelfStick_all dtls.dwg

NOTES:
1. DETAIL APPLICABLE TO CONDITIONS WHERE THE BOTTOM OF THE INTERIOR FLOOR SLAB IS RAISED A MINIMUM OF 6" ABOVE THE TOP OF FOOTING AS SHOWN.
2. TERMINATIONS IN THE MEMBRANE ARE SEALED USING ULTRA-GUARD SEALANT.



RAISED SLAB DETAIL

DRAWINGS ON 8½"x11 TITLE BLOCKS ARE NOT TO SCALE.

ULTRA-GUARD SELF-STICK MEMBRANE
RAISED SLAB DETAIL

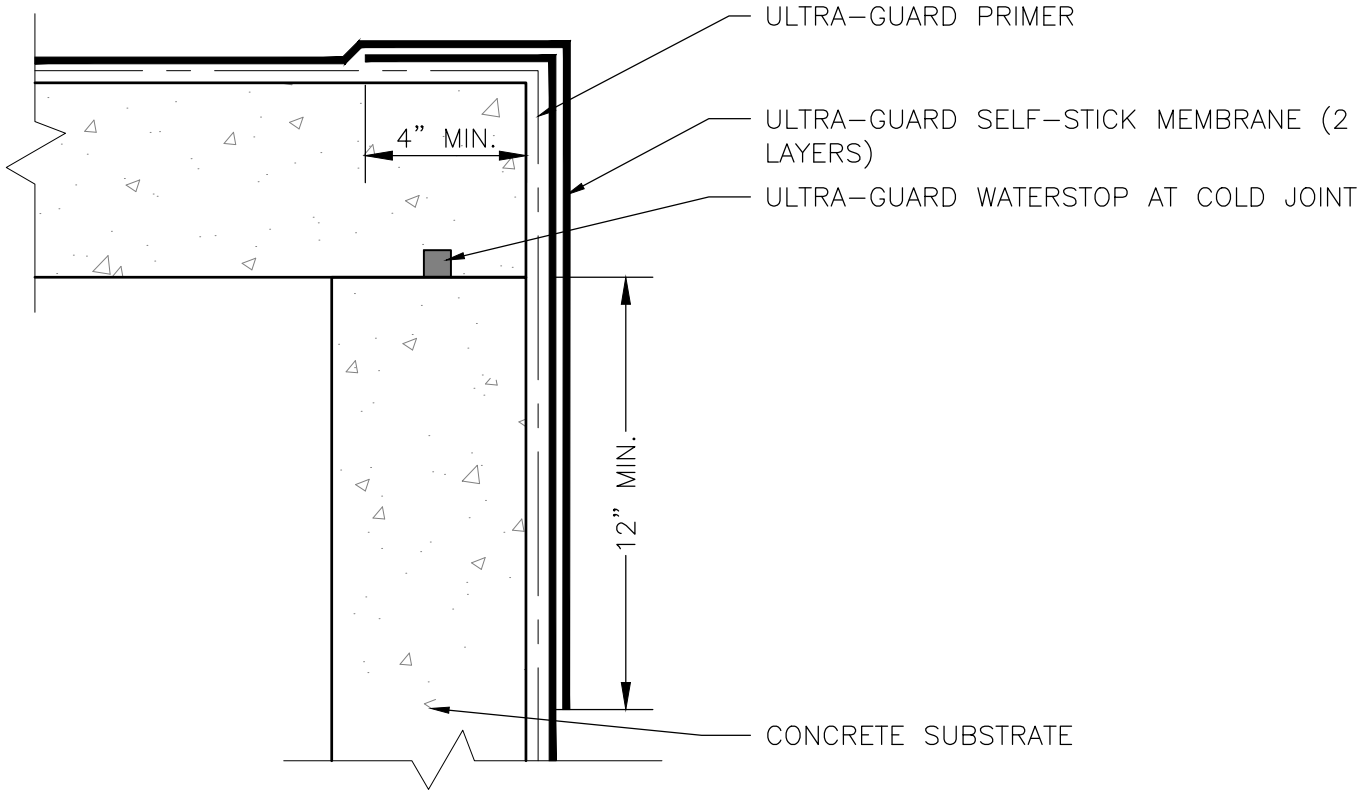
GMX
A Subsidiary of Garland Industries

DETAIL ID:	SS-
REPRESENTATIVE:	
DATE: 12-02-21	SHT: OF

FILENAME: SelfStick_all dtls.dwg

NOTES:

1. ULTRA-GUARD SELF-STICK MEMBRANE IS EXTENDED 12" BELOW THE DECK-TO-WALL JOINT.
2. (2) TWO PLIES OF ULTRA-GUARD SELF-STICK MEMBRANE ARE USED AT ALL 90 DEGREE CHANGES IN PLANE.



DECK/WALL DOWNTURN DETAIL

DRAWINGS ON 8½"x11 TITLE BLOCKS ARE NOT TO SCALE.

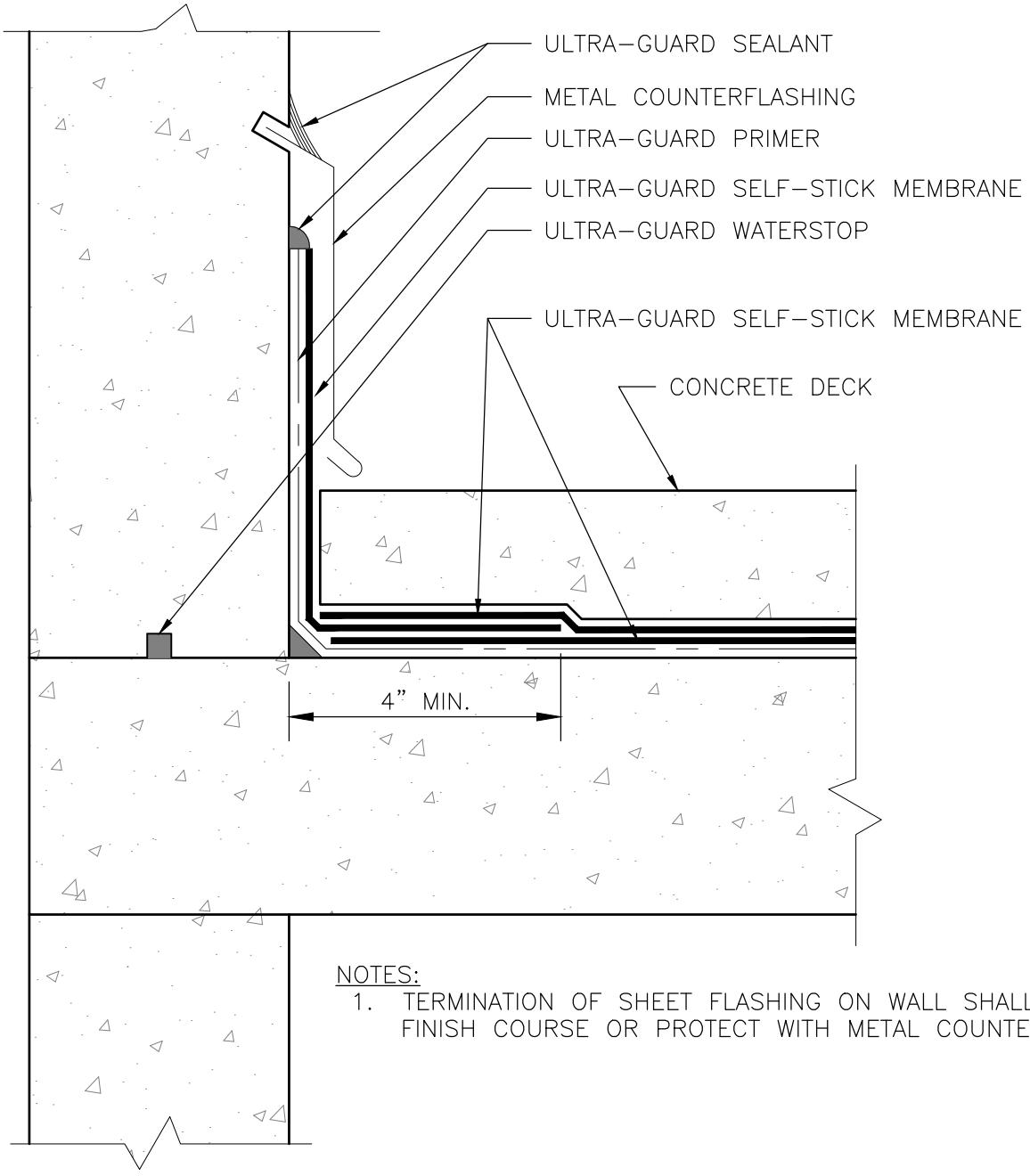
ULTRA-GUARD SELF-STICK MEMBRANE DECK/WALL DOWNTURN DETAIL

GMX
A Subsidiary of Garland Industries

DETAIL ID:	SS-
REPRESENTATIVE:	
DATE: 12-02-21	SHT: OF

FILENAME: SelfStick_all dtls.dwg

NOTES:
1. THE FIELD MEMBRANE IS EXTENDED INTO THE EDGE OF THE ULTRA–GUARD SEALANT FILLET.
2. CONTINUOUS TERMINATION BAR, REGLET OR COUNTERFLASHING DETAILS ARE ACCEPTABLE.



NOTES:
1. TERMINATION OF SHEET FLASHING ON WALL SHALL BE BELOW FINISH COURSE OR PROTECT WITH METAL COUNTERFLASHING.

DRAWINGS ON 8½"x11" TITLE BLOCKS ARE NOT TO SCALE.

DECK/WALL UPTURN DETAIL

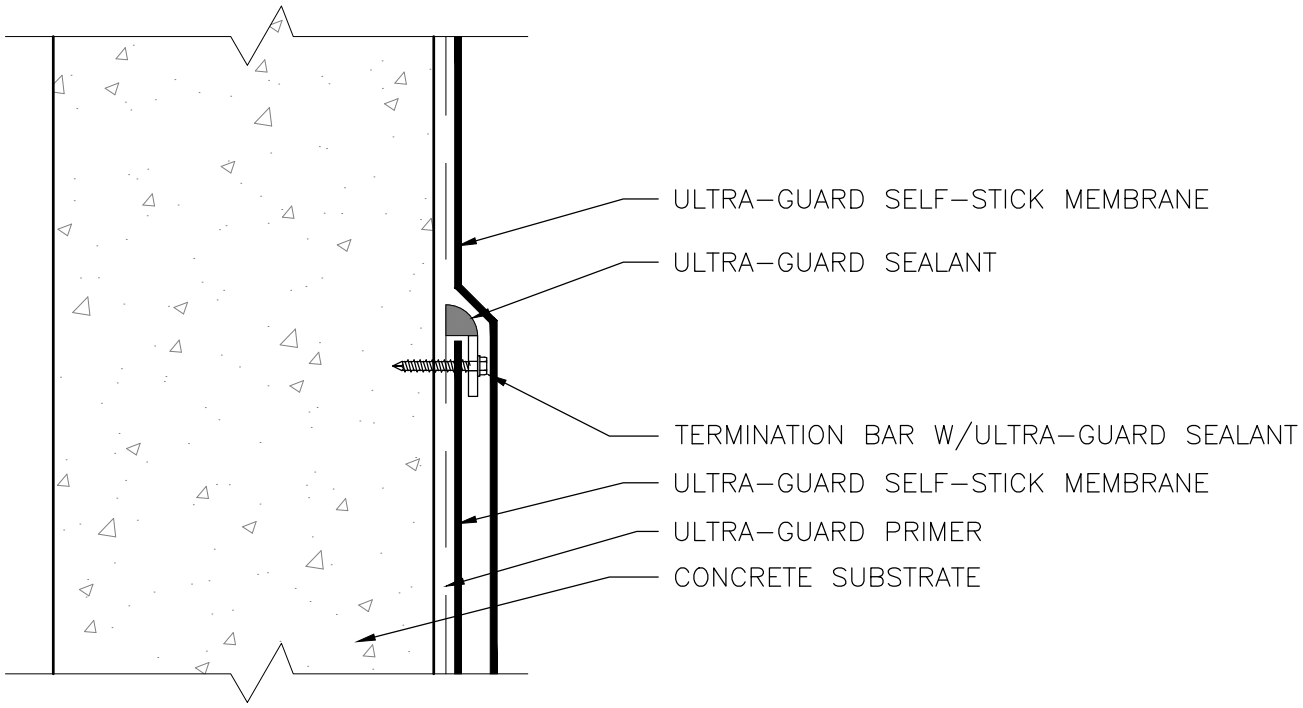
ULTRA-GUARD SELF-STICK MEMBRANE DECK/WALL UPTURN DETAIL

A Subsidiary of Garland Industries

DETAIL ID:	SS-
REPRESENTATIVE:	
DATE: 12-02-21	SHT: OF

FILENAME: SelfStick_all dtls.dwg

NOTES:
1. CONTINUOUS TERMINATION BAR, REGLET OR COUNTERFLASHING DETAILS ARE ACCEPTABLE.
2. A TERMINATION BAR MUST BE USED ON ALL DECK TO WALL EXPANSION JOINT DETAILS.



TERMINATION BAR DETAIL

DRAWINGS ON $8\frac{1}{2}$"x11 TITLE BLOCKS ARE NOT TO SCALE.

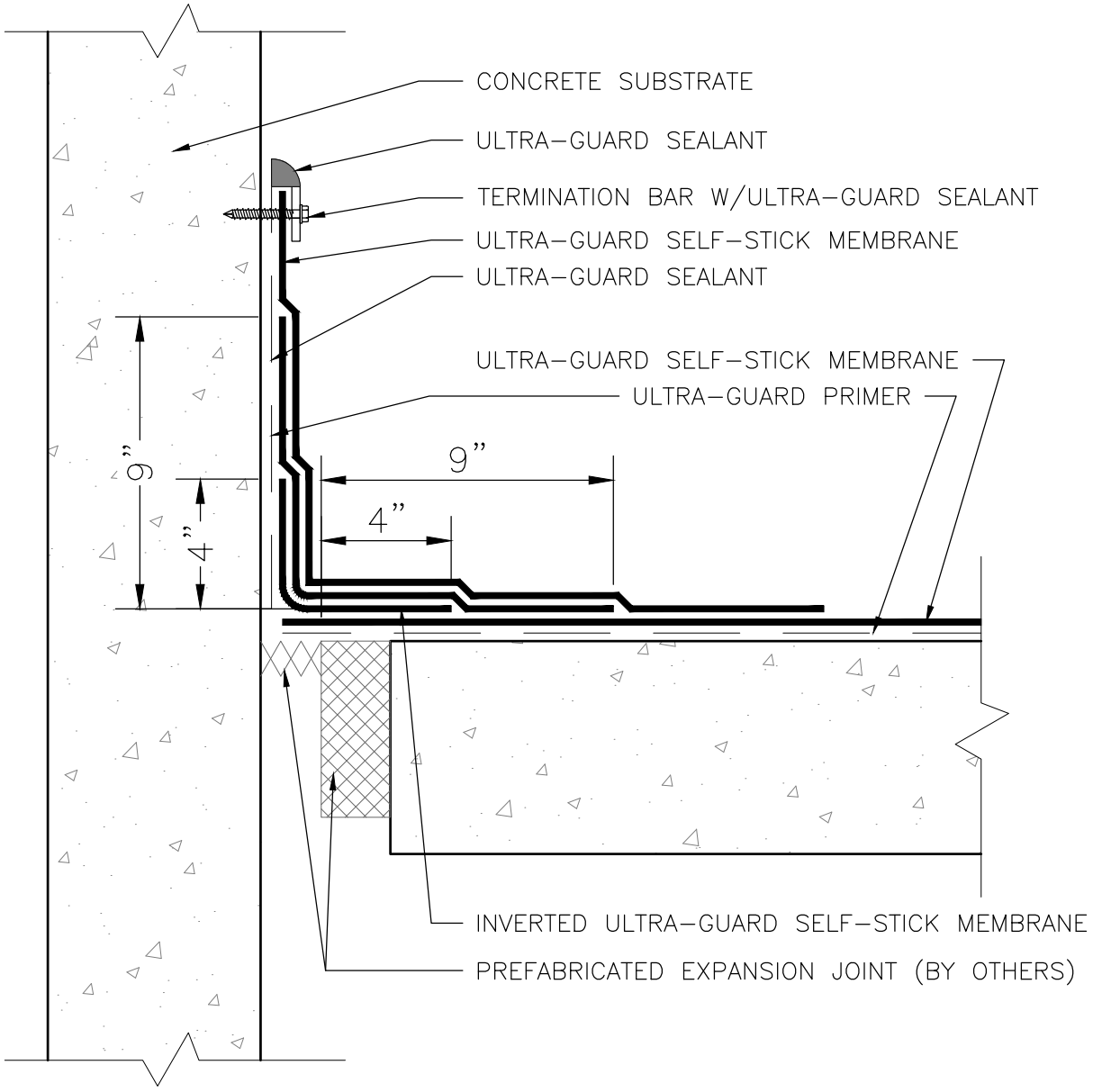
ULTRA-GUARD SELF-STICK MEMBRANE TERMINATION BAR DETAIL

GMX
A Subsidiary of Garland Industries

DETAIL ID:	SS-
REPRESENTATIVE:	
DATE: 12-02-21	SHT: OF

FILENAME: SelfStick_all dtls.dwg

NOTES:
1. CONTINUOUS TERMINATION BAR, REGLET OR COUNTERFLASHING DETAILS ARE ACCEPTABLE.
2. A TERMINATION BAR MUST BE USED ON ALL DECK TO WALL EXPANSION JOINT DETAILS.



EXPANSION JOINT DETAIL

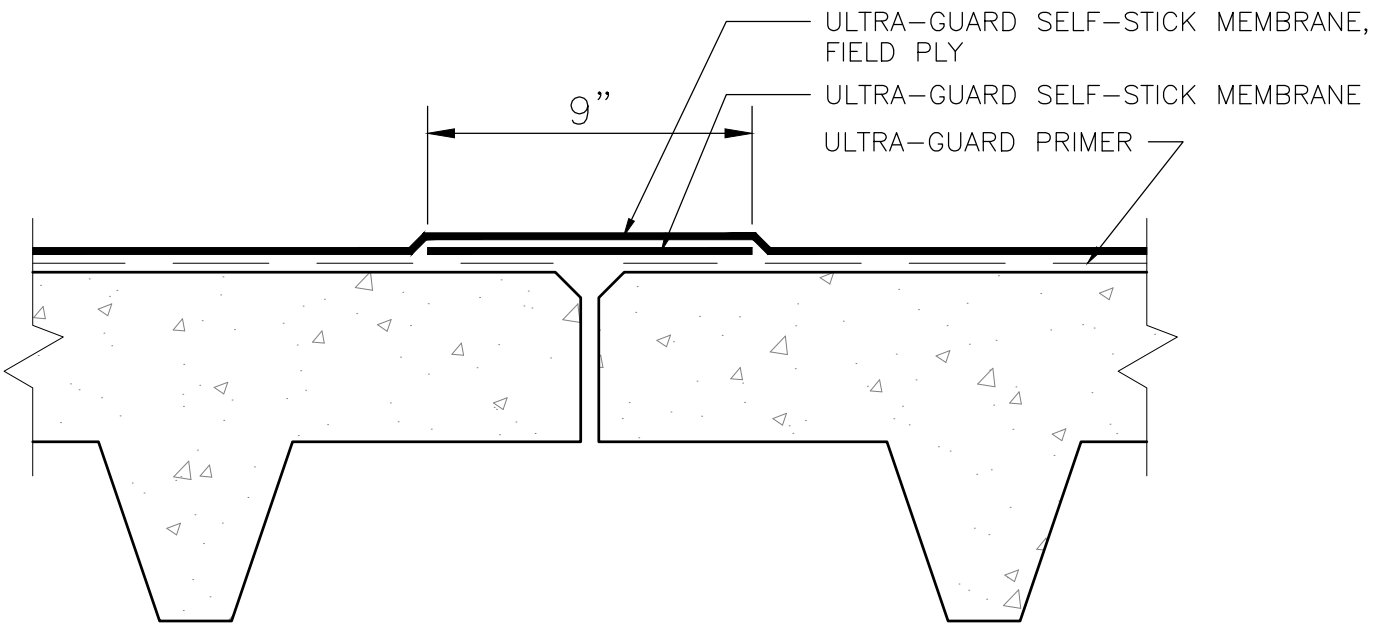
DRAWINGS ON 8½"x11 TITLE BLOCKS ARE NOT TO SCALE.

ULTRA-GUARD SELF-STICK MEMBRANE EXPANSION JOINT DETAIL

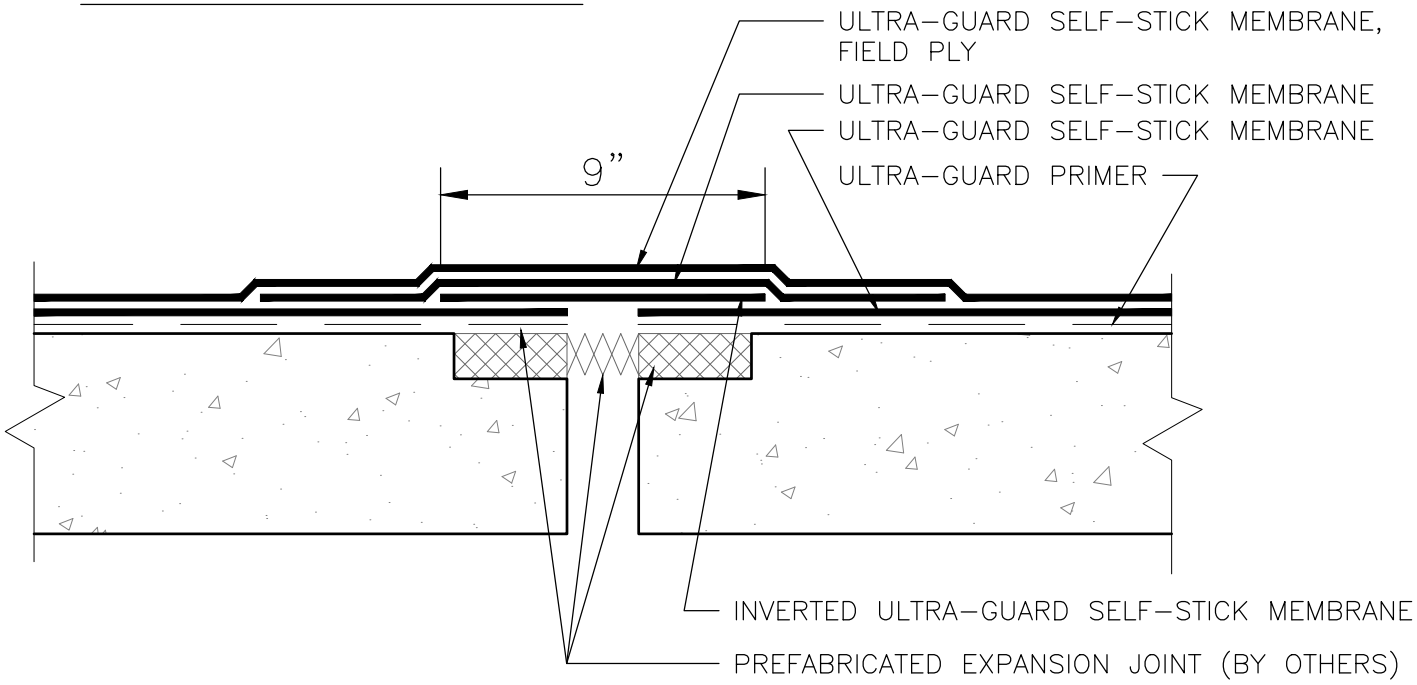
GMX
A Subsidiary of Garland Industries

DETAIL ID:	SS-
REPRESENTATIVE:	
DATE: 12-02-21	SHT: OF

FILENAME: SelfStick_all dtls.dwg



PRECAST JOINT DETAIL



EXPANSION JOINT DETAIL

PRECAST/EXPANSION JOINT DETAIL

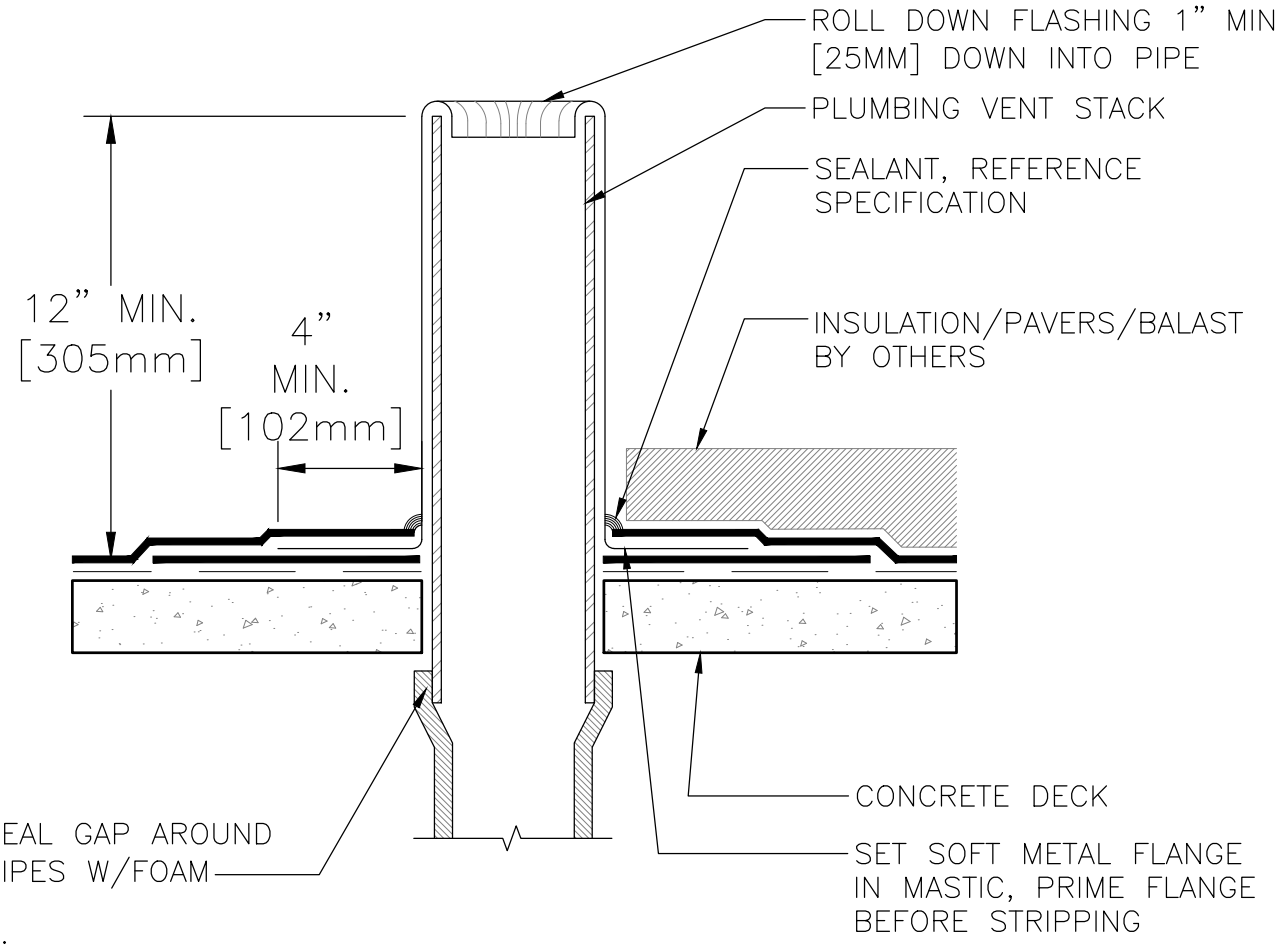
DRAWINGS ON $8\frac{1}{2}$”x11 TITLE BLOCKS ARE NOT TO SCALE.

ULTRA-GUARD SELF-STICK MEMBRANE PRECAST/EXPANSION JOINT DETAIL

GMX
A Subsidiary of Garland Industries

DETAIL ID:	SS-
REPRESENTATIVE:	
DATE: 12-02-21	SHT: OF

FILENAME: SelfStick_all dtls.dwg



NOTE:
REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

VENT DETAIL

DRAWINGS ON 8½"x11 TITLE BLOCKS ARE NOT TO SCALE.

ULTRA-GUARD SELF-STICK MEMBRANE
VENT DETAIL

GMX
A Subsidiary of Garland Industries

DETAIL ID:	SS-
REPRESENTATIVE:	
DATE: 12-02-21	SHT: OF