

WHEN IT COMES TO HIGH STRENGTH UNDERLAYMENTS,
ONE COMPANY WROTE THE BOOK

MAXXON[®]

- MULTIFAMILY
- COMMERCIAL
- SINGLE FAMILY
- RENOVATION
- SELF-LEVELING
- SOUND DEADENING
- SURFACE APPLIED MOISTURE VAPOR TREATMENTS

GREEN FORMULATIONS



THE *ONLY* UNDERLAYMENTS WITH GREENGUARD[®] CERTIFICATION
SEE PAGE 8

STEEL JOIST/METAL DECKING

1 & 2 HOUR FIRE RATING
SEE PAGES 6 & 7

MAXXON

THE FLOOR SPECIALISTS

www.maxxon.com



MAXXON[®] UNDERLAYMENTS

GYP-CRETE[®] WAS ONLY THE BEGINNING...

Since gypsum first met sand in 1972, Gyp-Crete, now Maxxon Corporation, has provided superior underlayment products for solving virtually any floor problem. Maxxon not only started the industry, but continues to lead it with high quality green building products, training, research and expert installation by a North American network of authorized dealers.



Proven on Over
3.5 Billion Square Feet

FEATURES/BENEFITS

- Smooth, flat surface
- Fire resistant — over 100 UL Fire Designs
- Better sound control
- Efficient application and fast drying time
- No harmful urea formaldehyde
- Won't delaminate
- Won't shrink crack

APPLICATIONS

MULTIFAMILY

Sound and fire control are the primary reasons for specifying Gyp-Crete 2000[®]/3.2K in multifamily designs, but general contractors also prefer our underlayments for their quick installation, fast drying time and minimum preparation requirements. Gyp-Crete 2000/3.2K, Dura-Cap[®] and Commercial Topping[®] are the higher strength, faster drying choices for areas that will receive glue-down floor goods. A six-person crew can pour up to 40,000 square feet (3,716 m²) in a single day. And with our fast set time, painters and other light subtrades can be scheduled within 24 hours.

RENOVATION

Gyp-Crete 2000/3.2K, Dura-Cap, and Commercial Topping take worn, uneven floors and make them flat and smooth. Poured from a featheredge to three inches deep, they fill cracks and voids left after walls are removed. Perfect for renovations over wood, concrete and old floor coverings.

COMMERCIAL

Dura-Cap or Commercial Topping Floor Underlayments make any irregular or damaged concrete floor like new. They can spot-patch depressions or smooth an entire floor. Plus they attain compressive strengths of up to 4,500 psi (31 MPa). Dura-Cap and Commercial Topping are also easily poured over steel decking for steel frame construction. For new wood-frame commercial buildings, Gyp-Crete 2000/3.2K provides a strong underlayment.

SINGLE FAMILY

Builders appreciate Gyp-Crete 2000/3.2K because it won't warp or delaminate like plywood, and it helps eliminate squeaks and nail pops. Homeowners like Gyp-Crete 2000/3.2K because it makes their homes more energy efficient, fire resistant and comfortable. And because it seals the base of every room, it helps keep out insects and other pests. For homeowners who opt for radiant floor heating, Therma-Floor[®] is the underlayment of choice. It provides all the benefits of Gyp-Crete 2000/3.2K, plus special additives to meet the demands of this increasingly popular heating system.

SELF-LEVELING APPLICATIONS

Level-Right[®] Self-Leveling Floor Underlayments are ideal for floors that need a fast facelift. With compressive strengths up to 7,200 psi (50 MPa), they can be poured from a featheredge to deepfill, providing a smooth, level new surface that dries quickly and can be walked on in just two hours. Level-Right WearTop[®], a Self-Leveling Floor Topping, provides a new, smooth wear surface with equally speedy installation and drying time. See Maxxon Corporation's *Thick & Thin* brochure for additional information.

CHOOSING THE RIGHT FLOOR UNDERLAYMENT

TYPE OF APPLICATION	TYPE OF SUBFLOOR	GYP-CRETE	GYP-CRETE 2000/3.2K	THERMA-FLOOR	DURA-CAP	COMMERCIAL TOPPING
MULTI-FAMILY	Wood-New	●	●		■	■
	Wood-Renovation		●		■	■
	Concrete-New		●		■	■
	Concrete-Renovation		●		■	■
	Steel deck				●	●
	Radiant heating			●		
SINGLE FAMILY	Wood-New		●		■	■
	Wood-Renovation		●		■	■
	Concrete-New		●		●	●
	Concrete-Renovation				●	●
	Radiant heating			●		
COMMERCIAL	Wood-New		■		●	●
	Wood-Renovation		■		●	●
	Concrete-New		■		●	●
	Concrete-Renovation		■		●	●
	Steel deck				●	●
	Radiant heating			●		
	Wood-encapsulating V.A.T		■		●	■
	Concrete-encapsulating V.A.T		■		●	●



GYP-CRETE ^M

Gyp-Crete floor underlayment is one of the most efficient fire and sound control products available for multifamily construction. Standing the test of time since 1972, Gyp-Crete makes for safer, quieter living, and has become a standard in apartments, condominiums, townhomes, hotels and motels nationwide.



GYP-CRETE 2000/3.2K ^M

Engineered to deliver compressive strengths up to 3,200 psi (22.1 MPa), Gyp-Crete 2000/3.2K also delivers enhanced resistance to surface abrasions and even faster drying time. It's ideal for use over wood or concrete subfloors in single family, multifamily and light commercial construction, as well as renovation projects. Its surface provides a perfect base for practically any floor covering.



THERMA-FLOOR ^M

Therma-Floor is a gypsum underlayment designed to pour over hot water tubes or electric heating cables. It acts as the thermal mass for any radiant floor system. Therma-Floor encases the tubes or cables in non-combustible gypsum. Its special formula resists breakdown to 150 °F (66 °C). And because it's poured only 1 1/4" (32 mm) thick, the heating system is more responsive and more comfortable.





DURA-CAP ^M

To smooth concrete slabs, precast planks, or steel deck, use Dura-Cap®. It's formulated to cap rough, pitted, cracked and out-of-level concrete. And with a compressive strength of up to 4,000 psi (27.4 MPa), Dura-Cap meets ASTM F710, "Preparing Concrete to Receive Resilient Flooring." In renovation projects, it can be poured directly over old tile and adhesive residue. Gyp-Crete 2000/3.2K and Dura-Cap can also be used over a special encapsulant to abate vinyl asbestos tile. Consult your Maxxon dealer for more details on this safe and extremely cost-effective method of abatement.

DURA-CAP®

COMMERCIAL TOPPING ^M

Fast drying Commercial Topping is poured from a featheredge to 3" (76 mm) in new construction or renovation projects. With compressive strengths of 4,000 psi (27.4 MPa) to 4,500 psi (31 MPa), it's the ideal underlayment to meet ASTM F710, "Preparing Concrete to Receive Resilient Flooring." Plus it pours over VAT, VCT, terrazzo or ceramic, with no shotblasting required. For the ultimate strong, smooth finish over concrete, precast, steel deck, wood frame, and old, cracked lightweight, specify Commercial Topping.

Commercial TOPPING®

Ultimate Strength Floor Underlayment

MAXXON FLOOR UNDERLAYMENTS TECHNICAL DATA

	GYP-CRETE	GYP-CRETE 2000/3.2K	THERMA-FLOOR	DURA-CAP	COMMERCIAL TOPPING
USES	Multifamily	Multifamily, Light Commercial, Single Family	Radiant Floor Heating	Commercial, Multifamily	Commercial, Institutional
COMPRESSIVE STRENGTH	Up to 2,000 psi (14 MPa)	Up to 3,200 psi (22 MPa)	Typical range of 2,000 to 3,000 psi (14-21 MPa)	Typical range of 2,500 to 4,000 psi (17-28 MPa)	Typical range of 4,000 to 4,500 psi (28-31 MPa)
"K" FACTOR	4.75 Btu/(h•ft²•°F) (.6840 W/[m•°C])	5.15 Btu/(h•ft²•°F) (.7416 W/[m•°C])	4.96 Btu/(h•ft²•°F) (.7142 W/[m•°C])	4.76 Btu/(h•ft²•°F) (.6854 W/[m•°C])	
SPECIFIC HEAT	.223 Btu/(lb•°F) at 85 °F (.9343 kJ[kg•°C] at 29.44 °C)	.222 Btu/(lb•°F) at 85 °F (.9301 kJ[kg•°C] at 29.44 °C)	.224 Btu/(lb•°F) at 85 °F (.9385 kJ[kg•°C] at 29.44 °C)	.229 Btu/(lb•°F) at 85 °F (.9595 kJ[kg•°C] at 29.44 °C)	
WEIGHT	At 3/4", less than 6.5 lbs./sq. ft. (At 19 mm, less than 31.8 kg/m²)	At 3/4", less than 7.2 lbs./sq. ft. (At 19 mm, less than 35.2 kg/m²)	At 1 1/4", less than 12 lbs./sq. ft. (At 32 mm, less than 58.7 kg/m²)	At 1/2", less than 4.8 lbs./sq. ft. (At 12.7 mm, less than 23.5 kg/m²)	At 1/2", less than 5.3 lbs./sq. ft. (At 12.7 mm, less than 25.9 kg/m²)
DRY DENSITY	110 lbs./ft³ (1760 kg/m³)	115 lbs./ft³ (1840 kg/m³)	115 lbs./ft³ (1840 kg/m³)	115 lbs./ft³ (1850 kg/m³)	125 lbs./ft³ (2000 kg/m³)
POINT LOADING	Minimum loading of 550 lbs. on a 1" (250 kg on a 25.4 mm) diameter disc	Typical loading of up to 2500 lbs. on a 1" (1135 kg on a 25.4 mm) diameter disc	Typical loading of up to 2500 lbs. on a 1" (1135 kg on a 25.4 mm) diameter disc	Typical loading of up to 3000 lbs. on a 1" (1362 kg on a 25.4 mm) diameter disc	Typical loading of up to 3500 lbs. on a 1" (1589 kg on a 25.4 mm) diameter disc
SURFACE BURNING CHARACTERISTICS (ASTM-E84)	Flame spread: 0 Fuel contributed: 0 Smoke density: 0	Flame spread: 0 Fuel contributed: 0 Smoke density: 0	Flame spread: 0 Fuel contributed: 0 Smoke density: 0	Flame spread: 0 Fuel contributed: 0 Smoke density: 0	Flame spread: 0 Fuel contributed: 0 Smoke density: 0

Maxxon gypsum underlayments retain their strength when re-dried after being immersed in water for 30 days. Gyp-Crete Performance Test, Telco Report #9-018.

PROJECT SPOTLIGHTS



BLUE APARTMENTS MINNEAPOLIS, MN

Contractor: Frana Companies

Architect: BKV Group

Scope: 109,000 sq. ft. of Acousti-Mat® II

233,000 sq. ft. of Gyp-Crete 2000®/3.2K

121,000 sq. ft. of integrally pigmented Level-Right® WearTop



MARKET COMMON MYRTLE BEACH, SC

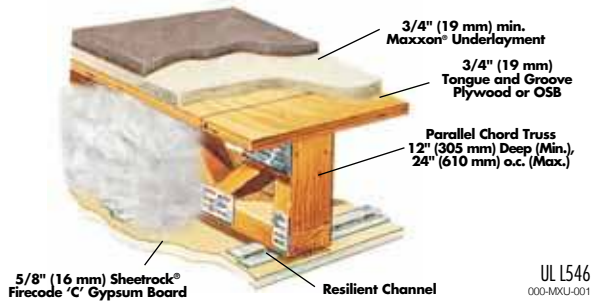
Contractor: Mashburn Construction

Architect: Antunovich Associates

Scope: 34,000 sq. ft. to a depth of 1⁹/₁₆"
Dura-Cap® topping corrugated steel deck
over Dietrich Light-Gauge Steel Framing.
Poured in two lifts; the first to the top of
the flutings, the second lift an additional 1".

DETAIL DRAWINGS

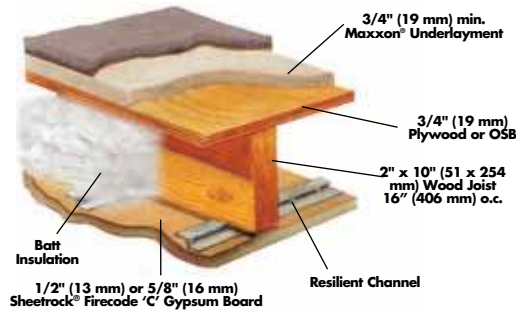
PARALLEL CHORD TRUSS



UL L546
000-MXU-001

1 HR	w/ Insulation & Resilient Channel	L528, L546, L555, L558, L562, L563, L574, L579, L585, L592, M503, M508
1 HR	w/ Resilient Channel	L528, L534
1 HR	w/ Kinetics Ceiling Hangers	L581, L583
1 HR	Drywall Screwed Direct	L529
2 HR	w/ 3+ Layers of Drywall	L556, M503

2 X 10 DIMENSIONAL JOISTS



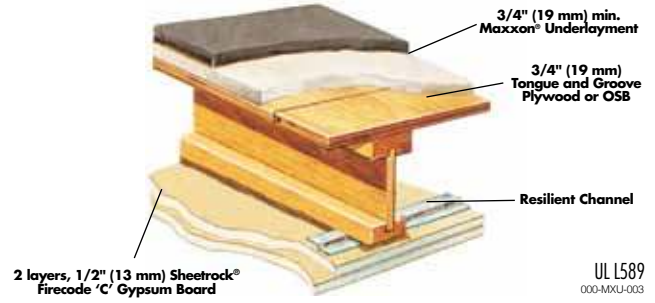
UL L593
000-MXU-012

1/2 HR	Drywall Screwed Direct	L509
3/4 HR	Drywall Screwed Direct	L506, M504
3/4 HR	w/ Resilient Channel & Insulation	L520
1 HR	w/ Suspended Ceiling Tiles	L004, L005, L006, L201, L202, L206, L209, L210, L212
1 HR	Drywall Screwed Direct	L501, L503, L507, L512, L519, L522, L523, L537, L557, L588
1 HR	w/ Furring Channel	L515
1 HR	w/ Resilient Channel	L502, L513, L514, L516, L517, L523, L533, L535, L545, L593
1 HR	w/ Resilient Channel & Insulation	L502, L513, L516, L533, L545, L593
1 HR	w/ Kinetics Ceiling Hangers	L581, L583
1 HR	Suspended Drywall	L525, L526
1 HR*	Independent Rafter Ceiling	L539, L540, L211* (2HR)
1 1/2 HR	w/ 2 Layers of Drywall	L510
2 HR	w/ 2 Layers of Drywall	L505, L511, L536, L541
2 HR	w/ 4 Layers of Drywall	L556

MISCELLANEOUS JOISTS

Wood Joists	4"x10" - L508, 3"x8" - L208, 2"x8" - L556	
Bar Joists	1HR Suspended Ceiling	Warnock Hersey #WH1-694-029
Hambro Systems	1, 1 1/2, 2HR	G524
Space Joists TE	1HR	FC378, TSC/FCA 60-02
Prefabricated Floor Panels	1HR	L504

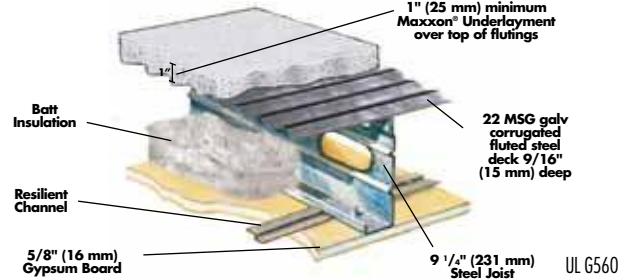
I-JOIST



UL L589
000-MXU-003

1 HR	w/ Insulation & Resilient Channel	L589, Warnock Hersey #J20050694
1 HR	w/ Resilient Channel	L518, L547
1 HR	w/ Simpson Strong-Tie Clips	L530
1 HR	w/ Kinetics Ceiling Hangers	L581, L583
1 1/2 HR	Drywall Screwed Direct	ICC ESR 1153
2 HR	w/ 3 Layers of Drywall	L538, L556

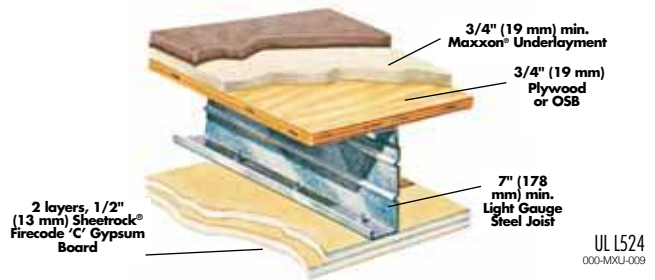
STEEL JOIST/CORRUGATED STEEL DECK



UL G560
000-MXU-008

1, 2 HR	Deitrich Joist	G560
1, 2 HR	Gateway Joist	G566
2 HR	Marino\WARE Joist	G563
2 HR	NUCON NUJoist	G576
2 HR	CEMCO Joist	G574
1, 1 1/2, 2, 3 HR	Vulcraft Steel Deck	G561
1 HR	iSpan Joist	M511
1 HR	iSpan Joist	M505

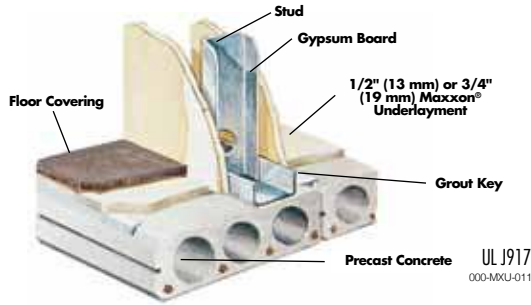
STEEL JOIST



UL L524
000-MXU-009

1 HR	Drywall Screwed Direct	L524
1 HR	Independent Rafter Ceiling	L543
1 HR	w/ Viroc Subfloor	L564
1 HR	w/ Insulation & Resilient Channel	L575, L594
1 HR	w/ 1 layer of Drywall and iSpan Joist	M511
1 1/2 HR	w/ Resilient Channel & 2 Layers of Drywall	L527, L599
2 HR	w/ 4 Layers of Drywall	L556

PRECAST CONCRETE



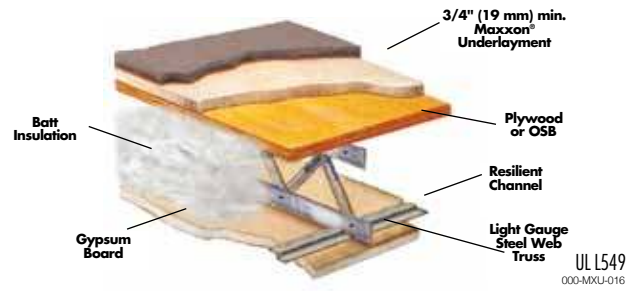
2 HR	J917, J927, K906
1 1/2, 2, 3, 4 HR	J991, J994
2, 3 HR	J919, J920, J931, J957, J958
2, 3, 4 HR	J924, J966

DOUBLE T CONCRETE



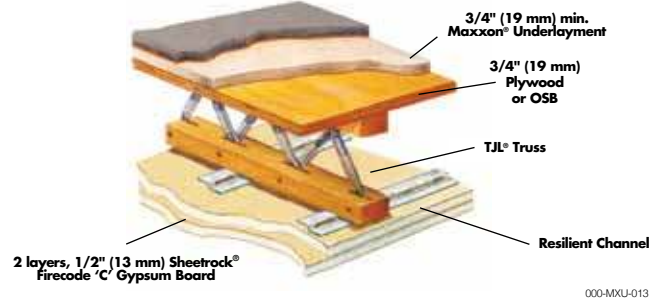
2, 3, 4 HR	J804, J805
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LIGHT GAUGE STEEL WEB TRUSS



1 HR	w/ Insulation & Resilient Channel	L549, L551, L552, L560
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TJL TRUSS



1 HR	w/ Resilient Channel	L518
2 HR	w/ 3 Layers of Drywall	L538
1, 2 HR	Several Options	ICC ESR-1774

FIRE RATINGS Contact Maxxon for copies of these tests.

#	HOUR RATING	TYPE OF CONSTRUCTION
G524	1, 1.5, 2	Hombro Systems
G560	1, 2	Dietrich Industries Steel Joist, 24" o.c. with 22 MSG Corrugated Steel Deck
G561	1, 1.5, 2, 3	Vulcraft Corrugated Steel Floor and Form Units topped with 2 1/2" concrete
G563	1, 2	MarinoWARE Steel Joist, 24" o.c. with 22 MSG Corrugated Steel Deck
G566	1, 2	Gateway Panel Steel Joist, 24" o.c. with 22 MSG Corrugated Steel Deck
G574	1, 2	California Expanded Metal Company Steel Joist, 24" o.c. with 22 MSG Corrugated Steel Deck
G576	2	NUJOIST Steel Joist, 24" o.c. with 22 MSG Corrugated Steel Deck
J917	2	Precast Concrete
J919	3	Precast Concrete
J920	3	Precast Concrete
J924	3, 4	Precast Concrete
J927	2	Precast Concrete
J931	3	Precast Concrete
J957	3	Precast Concrete
J958	2, 3	Precast Concrete
J966	2, 3, 4	Precast Concrete
J991	2, 3	Precast Concrete
J994	1.5, 2, 3, 4	Precast Concrete
K906	2	Precast Concrete
L004	1	2" x 10" Wood Joist/ Acoustical Ceiling
L005	1	2" x 10" Wood Joist
L006	1	2" x 10" Wood Joist
L201	1	2" x 10" Wood Joist
L202	1	2" x 10" Wood Joist
L206	1	2" x 10" Wood Joist/ Acoustical Ceiling
L208	1	2" x 10" Wood Joist
L209	1	2" x 10" Wood Joist
L210	1	2" x 10" Wood Joist
L211	1	2" x 10" Wood Joist
L212	1	2" x 10" Wood Joist
L501	1	2" x 10" Wood Joist
L502	1	2" x 10" Wood Joist
L503	1	2" x 10" Wood Joist
L504	1	Prefabricated Floor Panels*
L505	2	2" x 10" Wood Joist
L506	1	2" x 10" Wood Joist
L507	1	2" x 10" Wood Joist
L508	1	2" x 10" Wood Joist

#	HOUR RATING	TYPE OF CONSTRUCTION
L509	1	2" x 10" Wood Joist
L510	1	2" x 10" Wood Joist w/ Furring Channel
L511	2	2" x 10" Wood Joist
L512	1	2" x 10" Wood Joist
L513	1	2" x 10" Wood Joist
L514	1	2" x 10" Wood Joist
L515	1	2" x 10" Wood Joist
L516	1	2" x 10" Wood Joist
L517	1	2" x 10" Wood Joist
L518	1	2" x 10" Wood Frame/TJL®
L519	1	2" x 10" Wood Joist
L520	.75	2" x 10" Wood Joist*
L522	1	2" x 10" Wood Joist
L523	1	2" x 10" Wood Joist
L524	1	Light Gauge Steel/ Plywood Deck
L525	1	2" x 10" Wood Joist/ Acoustical Ceiling
L526	1	2" x 10" Wood Joist
L527	1.5	Light Gauge Steel w/ Resilient Channel
L528	1	Wood Frame/ Parallel Chord Truss
L529	1	Wood Frame/ Parallel Chord Truss
L530	1	TJL® Wood Joist w/ Simpson Strong Clips
L533	1	2" x 10" Wood Joist
L534	1	Wood Frame/Parallel Chord Truss
L535	1	2" x 10" Wood Joist
L536	2	2" x 10" Wood I Joist
L537	1	2" x 10" Wood Joist
L538	2	2" x 10" Wood I Joist
L539	1	2" x 10" Wood Joist*
L540	1	2" x 10" Wood Joist*
L541	2	2" x 10" Wood Joist
L542	1	Wood Frame/ Parallel Chord Truss/ Furring Channels
L543	1	Steel Joist/ Wood Subfloor*
L545	1	2" x 10" Wood Joist
L546	1	Wood Frame/ Parallel Chord Truss/ Batt Insulation
L547	1.5	TJL®, Furring Channels w/o Batt Insulation
L549	1	Steel Chord and Web Truss*
L551	1	Steel Chord and Web Truss*

#	HOUR RATING	TYPE OF CONSTRUCTION
L552	1	Steel Chord and Web Truss*
L555	1	Wood Frame/Parallel Chord Truss/Batt Insulation
L556	2	Willamette I Beam Truss*
L557	1	2" x 10" Wood Joist
L558	1	Wood Frame/Parallel Chord Truss
L560	1	Steel Truss/Wood Subfloor*
L562	1	Wood Frame/ Parallel Chord Truss
L563	1	Wood Frame/ Parallel Chord Truss/ Batt Insulation
L564	1	Metal Joist, Viroc Subfloor, Batt Insulation, w/ Resilient Channel and 1 Layer 5/8" Type C Gypsum Board
L573	1	Steel Joists w/ Furring Channels
L574	1	Parallel Chord Truss w/ Batt or Loose Fill Insulation
L575	1	iSpan® Steel Joist
L579	1	Wood Frame, Parallel Chord Truss/ Batt Insulation
L581	1	Kinetics ICW Clip, 2 layers 5/8" Gypsum Board and Batt Insulation
L583	1	Kinetics Iso-max Clip, 2 Layers 5/8" Gypsum Board and Batt Insulation
L585	1	Parallel Chord Truss w/ Batt Insulation & 1 Layer 5/8" Gypsum Board
L588	1	2" x 10" Wood Subfloor, Gypsum Board Direct
L589	1	Wood I Joist w/ Resilient Channel, Batt Insulation and 2 Layers 1/2" Gypsum Board
L592	1	Parallel Chord Truss with Batt Insulation
L593	1	2" x 10" Wood Joist
L594	1	iSpan® Light Gauge Steel Joist
L599	1.5	NUJOIST Steel Joist, 24" o.c. with Wood Subfloor, Resilient Channel, 2 Layers 5/8" Gypsum Board
M500	2	Parallel Chord Truss with Batt Insulation
M503	1	Wood Frame, Parallel Chord Truss
M504	.75	2" x 10" Wood Joist*
M505	1	Steel Joists with Batt Insulation, Resilient Channel, 2 layers Gypsum Board
M508	1	Parallel Chord Truss w/ Batt Insulation
M511	1	Steel Joist w/ Batt Insulation

Other fire tests where Maxxon Underlayments have been used:

ESR-1141	1	Nascor® Wood I Joist
ESR-1153 (7 Assemblies)	1	TJL® Wood I Joist
ESR-1305	1	Louisiana Pacific LP Solid Start I Joists
ESR-1336	1	Boise BCI I Joists
ESR-1774 (7 Assemblies)	1	TJL® Truss or Open Web Truss
ESR-2540	1 & 2	Wood Frame or Concrete
ES 90-31.01	1 & 2	Wood Frame, Concrete, or Light Gauge Steel
ITS (Warnock Hersey Test #J20050694 Nascor®)	1	Wood I Joist
WH1-694-029 Warnock Hersey 1 Hour Bar Joist	1	Bar Joist

Fire Tests by Underwriters Laboratories, Inc., as shown in their current Fire Resistance Directory, or on their web site: www.ul.com.
*Not pictured

A COMMITMENT TO "GREEN" BUILDING PRODUCTS



Maxxon is proud to lead the market in offering a comprehensive line of eco-friendly underlayment and sound control solutions. Manufactured with recycled content, Maxxon products are GREENGUARD Indoor Air Quality Certified® and Children and Schools CertifiedSM and may help contribute valuable points toward LEED® project certification. Maxxon products also meet the standards of the new GREENGUARD Select Certification ProgramSM. This elite pilot program uses the stringent emission criteria of the GREENGUARD Children & Schools Certification Program with additions to meet the latest scientific and market requirements. Products are tested and certified for four different environments: commercial, education, healthcare, and home. Maxxon products that achieve GREENGUARD Children & Schools Certification are also Select Certified in all four environments.



This third-party testing and certification verifies that Maxxon's products do not emit excessive levels of chemicals, including VOCs, formaldehyde, total aldehydes, and phthalates, assuring your clients that they do not need to worry about health risks of the floor on which they are standing. For more information Maxxon's GREENGUARD Select Certified products please refer to the chart below. Digital brochures can be found at www.maxxon.com or contact your Maxxon Regional Representative at (800) 356-7887 for a copy.

POTENTIAL LEED® ELIGIBILITY*	
CREDIT AREA	POINTS
New Construction/Renovation	Up to 10
Retail	Up to 7
Schools	Up to 8
Core & Shell	Up to 8
Commercial Interiors	Up to 9

SAMPLE USGBC LEED® CREDIT AREAS IMPACTED BY MAXXON GYPSUM UNDERLAYMENTS

PROJECT	CREDIT	CATEGORY	HOW REQUIREMENT IS FULFILLED
Indoor Environmental Quality	IEQ 3.2	Air Quality Before Occupancy	GREENGUARD Certified (Testing MUST be performed before claiming credit)
	IEQ 4.3	Low Emitting Materials: Floor System	GREENGUARD Children & Schools SM Certified
Materials & Resources	MR 2	Construction Waste Management	Recyclable packaging and shipping materials
	MR 4	Recycled Content	Fly Ash
	MR 5	Local/Regional Materials	Manufactured in Blue Rapids, KS 66411; Las Vegas, NV 89036; Camden, NJ 08103; Job Site Manufactured with Local Sand & Water
Innovation & Design	ID 1	Sound Control	Enhanced living environment

*Credits may vary depending on project type and Maxxon products used. Contact Maxxon Corporation for complete information.

INSTALLING MAXXON UNDERLAYMENTS

GENERAL

ENVIRONMENTAL CONDITIONS — Maxxon Underlayments are for interior use only and should not be poured directly over a plastic vapor barrier. Before, during and after installation, building interior shall be enclosed and maintained at a temperature above 50 °F (10 °C).

SUBFLOOR REQUIREMENTS — The wood or concrete subfloor shall be structurally sound, broom clean and contaminant free. The subfloor must be adequate to withstand live and dead loads with a deflection limitation of L/360.* Before installation, general contractor shall inspect the wood floor for proper nailing. Any wood weakened or delaminated during construction shall be replaced. Stud wall baseplates in doorways and other openings are to be removed.

METHODS OF INSTALLATION

GYP-CRETE® AND GYP-CRETE 2000®/3.2K — Gyp-Crete is to be poured after the drywall is installed. Gyp-Crete 2000/3.2K may be poured before or after drywall installation. The minimum thickness varies with the type of floor system:

- Minimum wood frame construction is agency-approved 19/32" (15 mm), 40/20 veneer and non-veneer wood subfloors.
- Preferred wood frame construction is 3/4" (19 mm) of underlayment over 3/4" (19 mm) tongue-and-groove, agency-approved subfloor with truss, joist or beam spacings of 16" to 24" (406 mm - 609 mm) on-center.
- Over concrete, the minimum thickness of Gyp-Crete is 1/2" (13 mm). For Gyp-Crete 2000/3.2K, the minimum thickness is usually 1/2" (13 mm). The 1.4 mix design can be featheredged.

DURA-CAP® AND COMMERCIAL TOPPING® — Dura-Cap and Commercial Topping can be poured before or after drywall installation:

- Over concrete, the minimum thickness is usually 3/8" (10 mm). However, the 1.4 mix design can be featheredged.
- Over wood frame construction, the minimum thickness is 3/4" (19 mm).
- Over galvanized corrugated steel deck, poured 1" (25 mm) over the top of the flutings, average pour thickness is 1 1/16" (39.2 mm).

THERMA-FLOOR® — The thickness of Therma-Floor varies with the type of radiant floor heating system. Therma-Floor is poured to a depth that is 3/4" (19 mm) above the tops of the tubes or cables. It can be poured before or after drywall is installed.

PRODUCT THICKNESS OVER WOOD SUBFLOORS

SUBFLOOR THICKNESS	TRUSS, BEAM OR JOIST SPACING	MINIMUM THICKNESS OF UNDERLAYMENT
19/32" (15 mm) [5/8"]	16-19.2" o.c. (406-487 mm)	3/4" (19 mm)
19/32" (15 mm) [5/8"]	19.2-24" o.c. (487-610 mm)	1" (25 mm)
23/32" (15 mm) [5/8"]	16-24" o.c. (406-610 mm)	3/4" (19 mm)

DRYING CONDITIONS

Before, during and after installation of a Maxxon Underlayment, building interior shall be enclosed and maintained at a temperature above 50 °F (10 °C) until structure and subfloor temperatures are stabilized.

Maxxon Gypsum Underlayments are inorganic and provide no source of nutrients to sustain mold growth. Prolonged contact of moisture with other construction materials, however, can result in mold growth. To avoid growth of mold on construction materials such as wallboard, drywall compound and even dust, it is vital to maintain a low relative humidity both before and after placement of Maxxon Gypsum Underlayments.

The general contractor must provide and maintain correct environmental conditions to keep the building clean and dry, and protect against infestation of moisture from a variety of potential sources. Moisture can be introduced by other trades through spillage, tracked in mud and rain, plumbing leaks, etc. Often stored in damp conditions, building products may arrive on-site laden with moisture that releases after installation. Outside sources such as rain, snow, wind, etc. can also increase moisture levels.

Controlling moisture levels in the building, through appropriate trade sequencing and prevention of potential damage by other trades, is the responsibility of the general contractor, who must supply mechanical ventilation and heat if necessary. These controls fall under the scope of work of the general contractor — not Maxxon Corporation nor the Maxxon Underlayment installer. For complete information on drying conditions, request a copy of Maxxon's *Building Conditions Guide*.

TESTING

For gypsum underlayments, compressive strength testing must be performed in accordance with modified ASTM C472. Before independent sampling, contact the Maxxon Quality Control Department to ensure that proper procedures are followed.

ACOUSTICAL PERFORMANCE

The authors of the International Building Code, the International Code Council, released an Acoustical Guideline to supplement the current code. ICC G2 - 2010 Acoustics recommends two grades of acoustical performance beyond the current code minimum — acceptable (52 F-IIC/F-STC) and preferred (57 F-IIC /F-STC), both which exceed the current code minimums. As the guideline referenced above points out, it is expected that tenants of entry level apartments, market rate apartments, luxury level apartments, and condominiums will all have different acoustic expectations for their units. For more information, request a copy of Maxxon's *Superior Sound Control Systems brochure*. Maxxon Corporation has performed hundreds of sound tests on Maxxon gypsum cement underlayments. Each was performed by recognized testing agencies over a wide variety of floor/ceiling assemblies. The acoustical performance of Gyp-Crete, Gyp-Crete 2000/3.2K, Therma-Floor, Dura-Cap and Commercial Topping are all similar.

LIMITATIONS

During construction, the general contractor must place temporary wood planking over underlayment wherever it will be subjected to heavy wheeled or concentrated loadings. Maxxon Underlayments are not to be used on or below grade, except over well-drained structural substrates. They should also not be used in areas that have prolonged contact with water. The typical maximum depth for gypsum underlayments is 3" (76 mm). For depths greater than 3" (76 mm), contact your Maxxon dealer.

* For additional installation information, see Page 11.

SOLUTIONS FOR A WORLD OF FLOOR CHALLENGES

REINFORCEMENT

When project conditions require reinforcement of the underlayment, Maxxon CSM and Maxxon Reinforcement provide cost-effective alternatives to metal lath.

Conditions such as potential movement of the subfloor — which could cause ceramic tile or other hard surface floor goods to crack — have typically been handled by installing metal lath prior to the underlayment pour. Although metal lath is difficult to install, and its cost has been rapidly increasing, there haven't been any reliable, more cost-effective options until now.



MAXXON CSM

- Passes extra heavy ratings tests by the TCNA
- Water-resistant fabric
- 40% pre-consumer recycled content
- Always a “green” building material
- May help contribute points toward LEED® project certification



MAXXON REINFORCEMENT

- Excellent durability
- Light — easy to handle
- No memory (unlike metal lath)
- Dimensionally stable in hot weather; not brittle in cold
- Long rolls reduce installation cost (compared to metal lath)
- Can be used over wood, concrete and precast plank
- Can be used over Acousti-Mats and with Maxxon Underlayment to reduce pour depth

SOUND CONTROL

WITH SEVEN LEVELS OF SOUND CONTROL, MAXXON HAS THE RIGHT SOLUTION FOR YOUR PROJECT

We have all experienced the pitfalls of an inferior sound control system. Whether in a commercial, multifamily, or single family application, sound control is important to the end user. From floor height concerns to open beam and corrugated steel decking, Acousti-Mat offers multiple levels of sound control to meet the constraints of any project.

With Acousti-Mat, design possibilities include the full spectrum of floor good options such as marble, ceramic tile or hardwood, without sacrificing sound control. Not only do Acousti-Mat and Enkasonic help reduce noise pollution, they also promote indoor air quality. The Acousti-Mat/Maxxon Underlayment system is the only sound control mat/underlayment system that meets the stringent standards of GREENGUARD Select CertificationSM.

ACOUSTI-MAT[®]
Superior Sound Control Systems



SELF-LEVELING

From thin toppings to deepfill, Maxxon's Level-Right line of cementitious underlayments has you covered. The Level-Right line installs fast and can be walked on in as little as two to four hours.

Level-Right and Level-Right Plus allow you to pour up to 3" deep and can achieve compressive strengths from 4500 psi to 7000 psi. With compressive strengths up to 7200 psi, Level-Right FS-10 can be poured from 0 – 3/8" and provides a smooth, hard surface ready to receive virtually any floor good.

For the concrete floor look with the leveling power of Level-Right, you need Level-Right WearTop. Available in white or grey, Level-Right WearTop can be integrally colored or stained in a variety of colors.



LEVEL-RIGHT
Self-Leveling Floor Underlayment

LEVEL-RIGHT PLUS
Multi-Purpose Self-Leveling Floor Underlayment

LEVEL-RIGHT FS-10
Fast Setting, 0-10 mm

LEVEL-RIGHT
WearTop

MOISTURE VAPOR TREATMENTS

Where moisture vapor emissions can wreak havoc on your finished floor goods, you need a proven solution. Maxxon DPM and Maxxon MVP prevent the passage of water vapor and moisture through concrete floors and walls on or below grade. These surface applied vapor barriers can be installed in new concrete construction or in renovation projects. They can reduce moisture vapor emission rates of up to 25 lbs x 1000 s.f. to 3 lbs or less. Maxxon DPM also prevents capillary infiltration of oil or other chemicals from the ground and can be used to treat oil contaminated slabs.

MAXXON DPM
Damp Proof Membrane

MAXXON MVP
Moisture Vapor Protection

FROM PAGE 9: INSTALLING MAXXON UNDERLAYMENTS

NOTES TO ARCHITECT

1. Specify Maxxon Underlayments in Section 03540 – Cementitious Underlayment, or Section 03 54 00 – Cast Underlayment. Contact Maxxon Corporation for customized CSI formatted specifications.
2. Maxxon Underlayments cannot resist stresses caused by sudden structural movement.
3. The structural subfloor and floor joist must comply with manufacturers' maximum span criteria. Typically a deflection limitation of L/360 is adequate for Maxxon Underlayments. Some floor coverings such as marble, stone, travertine, and ceramic tile may require a stiffer floor system. Maxxon Underlayments are non-structural and therefore cannot be expected to reinforce structurally deficient subfloors. The general contractor, architect, specifier, or building owner should make necessary allowances for expected live, concentrated, impact, and/or dead loads including the weight of finished floor goods and setting beds.
4. Expansion joints in all types of work shall be brought through the underlayment.
5. Maxxon Underlayments require a floor covering. Contact your Maxxon dealer for recommendations for adhering floor goods. Call or write for a copy of the brochure *Procedures for Attaching Finished Floor Goods to Maxxon Underlayments*. It is the responsibility of the floor goods installer to determine the compatibility of their product with a particular floor underlayment.
6. When applying engineered wood floors follow the wood floor or adhesive manufacturer's recommendations. When applying hardwood flooring follow NWFA/NOFMA installation recommendations.
7. Level-Right Self-Leveling Underlayments are the only recommended underlayments for gymnasium floors that are directly adhered. Wood gym floors using a sleeper system of attachment are acceptable for Dura-Cap, Commercial Topping and Level-Right.
8. Maxxon Underlayments are not a vapor barrier. The general contractor, architect, specifier, or building owner shall test below grade, on grade, or elevated slabs for MVER (ASTM F1869-09) or RH (ASTM F2170). If the MVER or RH of the concrete substrate exceeds the floor covering manufacturer's respective requirements for the finished flooring system, the concrete should be treated with a moisture vapor barrier, such as Maxxon DPM or Maxxon MVP, before installing a Maxxon Underlayment.

PRODUCT SUPPORT

Additional product literature and customized CSI formatted specifications are available upon request, or visit our website at www.maxxon.com.

WARRANTIES

Maxxon Underlayments are warranted to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the underlayment ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of any underlayment. Because Maxxon Corporation does not install the underlayment, it cannot be held responsible for the results of the application. Maxxon Corporation specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques. This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Maxxon Corporation's part. Maxxon Corporation neither assumes, nor authorizes any person to assume for Maxxon Corporation, any liability with the sale and installation of any of its floor underlayments.

CODE LISTINGS

Maxxon Floor Underlayment systems are recognized by ICC-ES Legacy Reports ICC-ES ESR-2540, ESR-1153, ESR-1141, and ESR-1774, U.S. Dept. of Housing and Urban Development 951h, City of Los Angeles, City of San Francisco, State of Rhode Island, Metro Dade County, Florida and are GREENGUARD Indoor Air Quality Certified, GREENGUARD Children & Schools Certified and GREENGUARD Select Certified.

LISTEN. LEARN. EARN.

THE LUNCH & LEARN SERIES FROM MAXXON, THE FLOOR SPECIALISTS

Maxxon Corporation offers four AIA accredited continuing education opportunities. Each one-hour presentation is given at your office and earns participants 1 LU|HSW credit. Additionally, Maxxon will treat you to lunch! Learn more about the presentations and then select the one that best suits your office. Not sure which to select? A Maxxon Representative will be happy to help you decide. To book a Lunch and Learn presentation for your office, call your Maxxon Representative at (800) 356-7887 or schedule it online at www.Maxxon.com/company/CE.

SPECIFYING THE RIGHT PRODUCT FOR THE RIGHT APPLICATION
Learn more about the benefits of underlayments and sound control mats, and how to select the right products for your project. Plus we'll cover how these products help enhance the safety and marketability of a project.

SOUND CONTROL IN MULTISTORY CONSTRUCTION
In this course you'll learn how to build a floor/ceiling assembly with sound control in mind. Topics include common terminology as it relates to acoustical construction, the International Building Code criteria for sound control, and the four key considerations in the design of a floor/ceiling assembly.

CONTRIBUTING TO LEED® CREDITS WITH GREEN UNDERLAYMENTS AND SOUND CONTROL MATS

To achieve LEED® project certification, it's important that every aspect of a project focus on utilizing 'green' building materials. In this presentation you'll learn how poured underlayments and acoustical mats may help contribute valuable points toward LEED® project certification, while also meeting the International Building Code's fire and sound transmission requirements. *This presentation also earns participants one SD credit.*

SURFACE APPLIED MOISTURE VAPOR BARRIERS

Concrete slabs can be subjected to moisture vapor emissions from the ground and due to varying humidity conditions. In this presentation, participants will learn how to assess the potential need for a vapor barrier, the types of vapor barriers available, and how to test the moisture content of a concrete slab.



PRODUCT LITERATURE

Request the following literature to learn more about specific Maxxon Products.

	GYP-CRETE	GYP-CRETE 2000/3.2K	THERMA-FLOOR	DURA-CAP	COMMERCIAL TOPPING	LEVEL-RIGHT	ACOUSTI-MAT I	ACOUSTI-MAT II	ENKASONIC	ACOUSTI-MAT 3	ACOUSTI-MAT SD	ACOUSTI-MAT LP	ACOUSTI-MAT LPR	MAXXON CSM	MAXXON MR
SALES/TECH SHEET	x	x	x	x	x	x	x		x		x	x	x		
MAXXON SYSTEMS BROCHURE	x	x	x	x	x									x	x
SOUND CONTROL SYSTEMS BROCHURE							x	x	x	x				x	x
THICK & THIN SELF-LEVELERS BROCHURE						x									
MAXXON ARCHITECT MANUAL	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
WEBSITE MAXXON.COM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	



Maxxon is registered with the AIA Continuing Education System (AIA/CES).



Underwriters Laboratories Inc.® Listed



The GREENGUARD Select™ mark is a registered certification mark used under license through the GREENGUARD Environmental Institute.



THE MAXXON GREEN MARK Maxxon products with this symbol may help contribute toward points for LEED project certification.



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