

# Homogeneous & Inlaid Sheet Flooring

MEDINTECH<sup>®</sup>  
MEDINTECH Tandem<sup>®</sup>  
ROYAL<sup>™</sup>



linoleum ■ biobased tile<sup>®</sup> ■ lvt ■ commercial hardwood ■ **sheet** ■ vct ■ specialty flooring ■ accessories



**SHEET**  
Homogeneous



**SHEET**  
Inlaid

## Homogeneous & Inlaid Sheet Flooring

**When demanding commercial performance is the key driver, Armstrong® homogeneous and inlaid flooring systems are the first products that come to mind.** The duo of MEDINTECH® homogeneous and MEDINTECH Tandem® inlaid floors has an unequalled track record in health care and education spaces. ROYAL™ rounds out our homogeneous offering with a refreshing visual and saturated color. With our integrated homogeneous and inlaid sheet collection, it's easy to meet your needs for the ultimate in performance.

### Proven High Performance from the Most Trusted Name in Flooring

- The proven industry standard for sterile and aseptic areas within medical environments.
- Tested 750 PSI rating for MEDINTECH and ROYAL homogeneous floors that resist indentation from heavy static loads.
- Tested 500 PSI rating for MEDINTECH Tandem inlaid floors that resist indentation from static loads.
- Superior gouge resistance created by 0.080 in. wear surface.
- Homogenous construction offers essential infection control protection.

### Low Maintenance Improves Your Bottom Line

- UV-cured urethane coating protects floor's appearance and improves scuff mark resistance.
- Simplified maintenance —same procedure for all spaces keeps floors looking their best.
- Saves time and costs that can reduce operating expenses and manpower needs.
- Floors stand up to strong cleaning agents and aggressive cleaning methods for longer service life.
- Low maintenance methods and materials conserve energy and natural resources.

### Ease of Installation

- Increased moisture limits and testing methods
  - 5 lb Moisture Vapor Emission Rate (MVER) limit for installations over concrete slabs per ASTM F 1869.
  - 80% relative humidity limit allowed when testing concrete using an in-situ probe per ASTM F 2170.
- Heat weld and flash cove for spaces requiring seamless installations and superior infection control.
- S-761 adhesive seaming for non-aseptic spaces saves installation time, materials and costs.

#### DID YOU KNOW?

MEDINTECH Homogeneous/ MEDINTECH Tandem Inlaid Seaming treatments and adhesives work together as a system to enable continuity of design, installation methods and maintenance procedures to provide cost savings



Weld rod seam



S-761 seam option

### Exclusive Armstrong System Benefits

- MEDINTECH<sup>®</sup> homogeneous and MEDINTECH Tandem<sup>®</sup> inlaid offer 33 products for cross-space design consistency with overall installed cost savings.
- Three seaming options: Pattern-matching and solid color weld rod options for MEDINTECH/ MEDINTECH Tandem; solid color weld rods for ROYAL™ and S-761 adhesive seaming option for non-aseptic areas.

### Breathe Easy

- Low VOC emissions—FloorScore™ certified to California Section 01350.
- Contributes to LEED<sup>®</sup> credit EQ4.3 for Indoor Air Quality. Adhesives contribute to EQ4.1.
- Compatible with Green Guide for Health Care GGHC-IEQ4.3, Collaborative for High Performance Schools CHPS-IEQ2.2, and LABS-21 IEQ4.3.



MEDINTECH

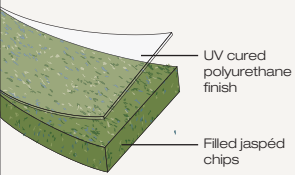
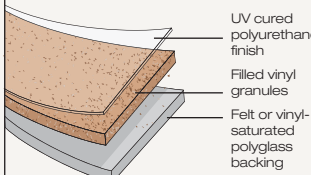
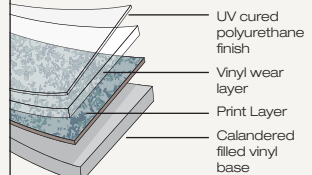
## Homogeneous & Inlaid Sheet Flooring



ROYAL™



MEDINTECH®

	Homogeneous	Inlaid	Heterogeneous
<b>Construction</b>	 <p>UV cured polyurethane finish Filled jaspéd chips</p> <p>Through-pattern/chip construction throughout entire thickness</p>	 <p>UV cured polyurethane finish Filled vinyl granules Felt or vinyl-saturated polyglass backing</p> <p>Through-pattern/chip wear layer</p>	 <p>UV cured polyurethane finish Vinyl wear layer Print Layer Calandered filled vinyl base</p> <p>Printed image</p>
<b>Products</b>	MEDINTECH, ROYAL	MEDINTECH Tandem® with Felt Backing, POSSIBILITIES® Petit Point™, Connection CORLON®	TRANSLATIONS™, TIMBERLINE®, PERSPECTIVES® (sheet and tile)
<b>Performance Attributes</b>	<p>Best combination of gouge and abrasion resistance</p> <p>Superior aseptic qualities when heat-welded</p> <p>Smooth easy to maintain surface protected by UV coating</p> <p>Excellent static load resistance</p>	<p>Gouge and abrasion resistant</p> <p>Suitable for aseptic application when heat-welded</p> <p>Easy to maintain surface protected by UV coating</p> <p>Static load resistant</p>	<p>Very abrasion resistant</p> <p>Suitable for aseptic applications when heat-welded</p> <p>Easy to maintain surface protected by UV coating</p> <p>Static load resistant</p>
<b>Wear Layer Thickness</b>	0.080 in. (2.0 mm)	MEDINTECH Tandem 0.060 in. (1.52 mm) POSSIBILITIES Petit Point 0.040 in. (1.00 mm) Connection CORLON 0.050 in. (1.27 mm)	0.020 in. (0.5 mm)
<b>Static Load Limit</b>	750 PSI (52.73 kg/cm <sup>2</sup> )	500 PSI (35.16 kg/cm <sup>2</sup> )	750 PSI (52.73 kg/cm <sup>2</sup> )
<b>Moisture Limit</b>	5 lbs. per ASTM F 1869 80% RH per ASTM F 2170	5 lbs. per ASTM F 1869 80% RH per ASTM F 2170	5 lbs. per ASTM F 1869 80% RH per ASTM F 2170
<b>Maintenance Methods</b>	No Polish Dry Buff, Spray Buff Polish-optional	No Polish Dry Buff, Spray Buff Polish-optional	No Polish Spray Buff Polish-optional
<b>Seaming Options</b>	Patterned weld rod (MEDINTECH) Solid weld rod S-761 seam adhesive	Patterned weld rod (MEDINTECH Tandem) Solid weld rod S-761 seam adhesive (POSSIBILITIES, MEDINTECH Tandem)	Solid weld rod S-761 seam adhesive



MEDINTECH<sup>®</sup> 88434 deep purple, 88461 ultra blue  
88459 spring green, 88472 bouvardia

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# MEDINTECH® Homogeneous/ MEDINTECH Tandem® Inlaid

MEDINTECH: 88\_\_ MEDINTECH Tandem: 87\_\_ WELD ROD: W0\_\_

88486/87486  
campanula buff



W0013

88476/87476  
ixia



W0410

88441/87441  
color fleck



W0177

88495/87495  
carthamus champagne



W0633

88472/87472  
bouvardia



W0512

88485/87485  
freesia pearl



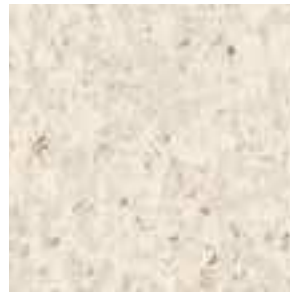
W0177

88419/87419  
silver gray



W0432

88416/87416  
almond



W0177

88477/87477  
liatris cool gray



W0420

88470/87470  
jasmine



W0352

88464/87464  
natural gray



W0426

88465/87465  
shoreline



W0670

88474/87474  
delphinium



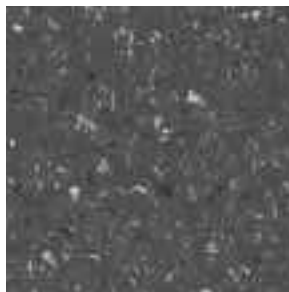
W0409

88488/87488  
dahlia sky



W0352

88463/87463  
black granite



W0046

88432/87432  
pumice stone



W0105

88451/87451  
golden glow



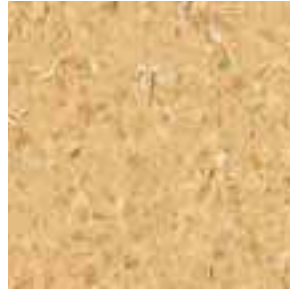
W0411

88450/87450  
sandalwood



W0485

88443/87443  
ginger



W0843

88444  
yellow glaze



W0844

88497/87497  
brushed sand



W0025

88452/87452  
fired clay



W0412

88446/87446  
melon



W0846

88457  
monarch red



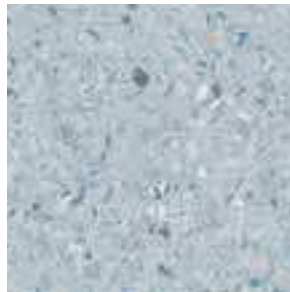
W0417

88439/87439  
desert gold



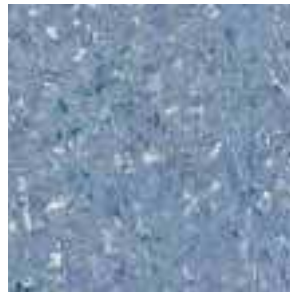
W0358

88449/87449  
surf blue



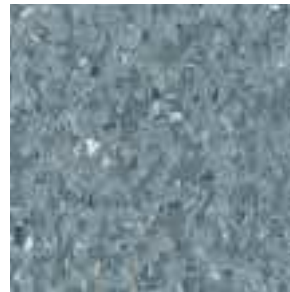
W0849

88448/87448  
blue skies



W0206

88498/87498  
grayed blue



W0637

88412/87412  
oatmeal



W0411

88455/87455  
garden sage



W0726

88460/87460  
moss



W0860

88492/87492  
viburnum green



W0860

# MEDINTECH® Homogeneous/ MEDINTECH Tandem® Inlaid

MEDINTECH: 88\_\_ MEDINTECH Tandem: 87\_\_ WELD ROD: W0\_\_ PATTERNED WELD ROD: WM\_\_

88456  
orange zest



W0416

88453/87453  
smoketree brown



W0178

88434  
deep purple



W0414

88458  
violet haven



W0418

88461  
ultra blue



W0661

88454/87454  
wild lavender



W0137

88459  
spring green











































W0419

88496/87496  
tea garden green



W0140

-  WM459 spring green
-  WM461 ultra blue
-  WM458 violet haven
-  WM434 deep purple
-  WM457 monarch red
-  WM456 orange zest
-  WM444 yellow glaze
-  WM441 color fleck
-  WM463 black granite
-  WM477 liatris cool gray
-  WM464 natural gray
-  WM419 silver gray
-  WM470 jasmine
-  WM488 dahlia sky
-  WM476 ixia
-  WM485 freesia pearl
-  WM416 almond
-  WM495 carthamus champagne
-  WM412 oatmeal
-  WM497 brushed sand
-  WM439 desert gold
-  WM465 shoreline
-  WM432 pumice stone
-  WM486 campanula buff
-  WM472 bouvardia
-  WM451 golden glow
-  WM450 sandalwood
-  WM443 ginger
-  WM452 fired clay
-  WM446 melon
-  WM453 smoketree brown
-  WM454 wild lavender
-  WM448 blue skies
-  WM474 delphinium
-  WM449 surf blue
-  WM498 grayed blue
-  WM492 viburnum green
-  WM460 moss
-  WM455 garden sage
-  WM496 tea garden green



# ROYAL™ Homogeneous

83403  
brushed sand



W0707

83405  
sahara sand



W0818

83407  
copper clay



W0373

83408  
plum brown



W0178

83402  
white linen



W0177

83404  
nickel



W0611

83412  
citrus yellow



W0819

83413  
lipstick



W0347

83401  
mist gray



W0592

83410  
washed denim



W0724

83409  
pacific blue



W0806

83414  
blue lagoon



W0090

83400  
charcoal



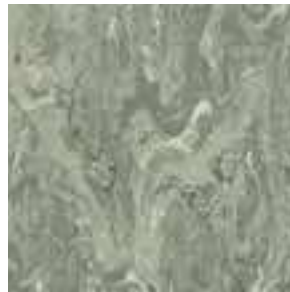
W0084

83406  
chocolate dream



W0180

83411  
garden green



W0179

83415  
mint julep



W0091

# Homogeneous & Inlaid Sheet Flooring

## Comparative Data

Products (5)	Overall Thickness (nominal) (1)	Wear Layer (nominal) (1)	Static Load Limit PSI (kg/cm <sup>2</sup> ) (2, 2a, 2b)	Durability (3)	Maintainability (3)	Resilience (3)	Reference Specs (4)
<b>Homogeneous</b>							
MEDINTECH®	0.080 in. (2.0 mm)	0.080 in. (2.0 mm)	750 (52.73) (2b)	E	E	E	ASTM F 1913
ROYAL™							
<b>Inlaid</b>							
MEDINTECH Tandem®	0.080 in. (2.0 mm)	0.060 in. (1.52 mm)	500 (35.16) (2b)	VG	E	VG	ASTM F 1303, Type II, Grade 1, Class A backing

- Overall and wear layer thicknesses are nominal and subject to normal manufacturing variances.
- PSI: lbs./sq. in. (kg/cm<sup>2</sup>)
  - Static Load Limit per ASTM F 970
  - Static Load Limit per ASTM F 970 modified by specifying a higher load on a smaller diameter tip. All other test conditions are standard. Subjective visual, no visually apparent indentation.
- Subjective ratings (Excellent, Very Good, Good, Fair) are in relation to other Armstrong® commercial resilient floors. Ratings are not directly related to any one test. They are broadly based on tests and experience of Armstrong R & D under varying conditions and circumstances. These ratings should NOT be used for comparison to ratings used by other manufacturers to rank their own products.
- Reference Specifications: Armstrong products are manufactured to meet or exceed specification requirements, except as noted.
- All products meet the following Fire Test Data:
  - ASTM E 648 Flooring Radiant Panel Critical Radiant Flux – 0.45 watts/cm<sup>2</sup> or more, Class I
  - ASTM E 662 Smoke Chamber Specific Optical Smoke Density – 450 or less. Numerical flammability ratings alone may not define product performance under actual fire conditions. These ratings are provided only for use in the selection of products to meet specified limits.

## Scratch Whitening

Darker-colored patterns may be susceptible to scratch whitening. These colors may require more frequent maintenance if used in field areas.

Product	Pattern Numbers
MEDINTECH	88434, 88443, 88444, 88446, 88448, 88453, 88456, 88457, 88458, 88459, 88460, 88461, 88463, 88474, 88492, 88496, 88498
MEDINTECH Tandem	87443, 87446, 87448, 87453, 87460, 87463, 87474, 87492, 87496, 87498
ROYAL	83400, 83406, 83408, 83409, 83411, 83412, 83413, 83414, 83415

## Light Reflectivity Values in Percent

0-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74
	83406	83400	83414	83407	83409	88432	83401	83405	83403	83412	88419	83402	
	88434	83413	83415	83408	83410	88450	83404	88439	88412	88451	88441	88416	
	88458	83457	88453	83411	88452	88460	88449	88443	88464	88470	88476	87416	
	88461		88456	88446	87452	87432	88455	88444	88465	88495	88485		
	88463		88459	88448		87450	88477	87443	88472	87495	88488		
	87463		88498	88454		87460	88492	87439	88486	87470	87476		
			87498	88474			87477		88497	87451	87441		
			87453	88496			87449		87486		87485		
				87474			87455		87472		87419		
				87446			87492		87464		87488		
				87448					87465				
				87454					87497				
				87496					87412				

Measured under incandescent illumination (ASTM 1347). Types and patterns tested here are those most suited to commercial interiors where reflectivity is a major factor. Ratings for other patterns available upon specific request.

## Recommended Applications

	MEDINTECH®	MEDINTECH TANDEM®	ROYAL™
<b>Health Care/Hospital (a)</b>			
Cafeteria, Dining Area (e)	R	R	R
Chapel	R	R	R
Corridors	H	R	H
Critical/Intensive Care	H	H	H
Dialysis (i)	H	H	H
Dry Physical Therapy	H	H	H
Elevators	H	R	H
Emergency Room Areas	H	H	H
Exam/Procedure Rooms	H	H	H
Gift Shop	R	R	R
Hydro Physical Therapy	N (3)	N (3)	N (3)
Hyperbaric Room	N (6)	N (6)	N (6)
Labor Delivery Rooms	R	R	R
Laboratories	H	H	H
Lobbies	R	R	R
Nurses Station	H	R	H
Office/Administrative/Conf. Rooms	R	R	R
Operating Rooms (b)	H	N	H
Patient Rooms	H	R	H
Pharmacy	H	H	H
Ramps/Ramped Corridors (Dry)	N (3)	N (3)	N (3)
Scrub Areas	H (i)	R (i)	H (i)
Stairways/Landings	R	R	R
Staff Lounge	R	R	R
Utility/Storage Room	R	R	R
Waiting Rooms	R	R	R
<b>Assisted Living/Military Housing/Light Commercial</b>			
Activity Rooms/Common Areas	H	H	H
Beauty Salon/Barber Shop	R	R	R
Corridors	H	R	H
Daycare Areas	R	R	R
Dining Areas	H	R	H
Doctor/Dentist Office	R	R	R
Residence Bathrooms (i)	H	H	H
Residence Kitchens (e)	R (e)	R (e)	R (e)
Residence Rooms/Barracks	R	R	R
<b>Education</b>			
Auditoriums	H	H	H
Cafeteria, Dining Area (e)	R	R	R
Classrooms/Lecture Halls	R	R	R
Computer Rooms	R (6)	R (6)	R (6)
Corridors	H	N	H
Dormitory Rooms	R	H	R
Food Service Area (e)	R (i)	R (i)	R (i)
Gymnasium	R	R	R
Laboratories	H	H	H
Lavatories	H	H	H
Library	R	R	R
Locker Rooms (No Spikes)	N (3)	N (3)	N (3)
Multipurpose Room/Cafeteriums	H	H	H
Office/Administrative/Conf. Rooms	R	R	R
Ramps/Ramped Corridors (Dry)	N (3)	N (3)	N (3)
Showers/Shower Rooms	N (3)	N (3)	N (3)
Stairways/Landings	R	R	R
Teacher's Lounge	R	R	R
Utility/Storage Areas	R	R	R
Vestibule/Entryway/Foyers (i)	N	N	N

### NOTES:

- Numerical footnotes apply to the space requirements
  - Alpha footnotes apply to the product's suitability for the space
- (3) Slip Retardance — A more secure walking surface is required
- (6) Not recommended in areas that require electrostatic discharge control
- (a) In most cases veterinary applications are similar
- (b) Only operating rooms not requiring conductive flooring
- (e) Armstrong floors are **not recommended** for commercial kitchens and commercial food processing areas, including behind fast-food counters
- (i) No standing water; walk-off mats required
- (m) Only MEDINTECH is recommended in low temperature environmental conditioning units NOT below 34° F (1.0° C)

	MEDINTECH	MEDINTECH TANDEM	ROYAL
<b>Mercantile</b>			
Automobile Showrooms	H	R	H
Checkout/Cash Wrap	R	R	R
Food Service (e)	R (i)	R (i)	R (i)
Frozen Food	R	R	R
Indoor Mall Common Areas	N	N	N
Produce Area	R	R	R
Sales Floor – Department Stores	R	R	R
Sales Floor – Grocery	R	R	R
Sales Floor – Mass merchant	R	R	R
Specialty Shops/Areas	R	R	R
<b>Office</b>			
Computer Room	N (6)	N (6)	N (6)
Corridors	H	R	H
Elevators	H	R	H
Lavatories	H	H	H
Lobby	R	R	R
Lunchrooms (e)	R	R	R
Offices/Conference Rooms	R	R	R
Stairways/Landings	R	R	R
Utility/Storage Rooms	R	R	R
<b>Hospitality</b>			
Around Whirlpool/Spas	N (3)	N (3)	N (3)
Corridors	H	R	H
Dining Room (e)	R	R	R
Elevators	H	R	H
Exercise Rooms	H	R	H
Guest Bathrooms (i)	H	H	H
Guest Rooms	R	R	R
Lobby	R	R	R
Lounge	R	R	R
Stairways/Landings	R	R	R
Vending Areas (i)	R	R	R
<b>Light Industrial</b>			
Clean Rooms	H	H	H
Computer Repair Lab	N (6)	N (6)	N (6)
Electronic Testing Lab	N (6)	N (6)	N (6)
Electronics Manufacturing	N (6)	N (6)	N (6)
Environmental Conditioning Unit (m)	H	N	H
Photo Processing	H	H	H
Production Laboratory	H	H	H
Research Laboratory	H	H	H
Small Parts Assembly	H	R	H
Sterile Packaging	H	R	H
Warehouse	N	N	N
<b>Transportation</b>			
Airport/Railway/Bus Terminals	N	N	N
Civic/Convention Centers	N	N	N
Museums/Cultural Centers	H	R	H

### H = Highly Recommended

The best flooring choice(s) for the space.

### R = Recommended

Flooring choice(s) that are suitable for the space.

### N = Not Recommended

Flooring that should not be used for the space.

The ratings of H, R or N are based on an evaluation of the performance, cost and aesthetic requirements of the space.

### In addition to spaces listed on this chart:

- Armstrong floors may be used on stair steps, risers and landings. A manufactured slip-retardant nosing should always be applied on steps
- Most Armstrong commercial sheet floors can be flash coved (integral cove). Most building codes consider flash coving in the same category as baseboard trim with respect to fire rating. Consult applicable codes for the particular project to determine the interpretation of allowable height for flash cove
- Armstrong floors are **not recommended** for exterior use, for interior spaces where pointed spike golf or track shoes will be used, or in areas where the floor will be subjected to unusually concentrated static or dynamic loads
- Armstrong floors **should not be used** as wall covering or wall surfacing

# Homogeneous & Inlaid Sheet Flooring

## MEDINTECH® ▪ MEDINTECH Tandem® ▪ ROYAL™

### Specification Data

#### Material

MEDINTECH and ROYAL: A nonbacked, nonlayered, homogeneous vinyl composition of polyvinyl chloride resin, plasticizers, stabilizers, fillers and pigments.  
 MEDINTECH Tandem: A wear layer composed of polyvinyl chloride resin, plasticizers, stabilizers, fillers and pigments on a backing.

#### Construction and Colors

MEDINTECH and ROYAL: Homogeneously consolidated vinyl chip image. Colors and pattern detail are dispersed uniformly throughout the wear layer of the product. Color pigments are insoluble in water and resistant to cleaning agents and light. Suitable for use on approved subfloors on all grade levels.  
 MEDINTECH Tandem: A wear layer composed of polyvinyl chloride resin, stabilizers, fillers and pigments on a backing suitable for use on approved subfloors on all grade levels.

#### Size

6.0 ft. (1.83 m) wide, up to 82.5 ft. (25 m) long

#### Gauge (nominal thickness)

All products: 0.080 in. (2.0 mm) overall

#### Wear Layer (nominal)

MEDINTECH and ROYAL: 0.080 in. (2.0 mm)

MEDINTECH Tandem: 0.060 in. (1.52 mm)

#### Limitations

MEDINTECH, MEDINTECH Tandem and ROYAL should not be used in the following areas:

- Heavy industrial and exterior areas.
- Commercial kitchens and commercial food processing areas.
- Where pointed spikes such as golf or track shoes will be used.
- Where the floor will be subjected to unusually concentrated static or dynamic loads.

**NOTE:** Concentrated static and dynamic loads such as hospital beds, roll-out bleachers, portable x-ray machines, etc., may visibly damage resilient as well as other types of floor coverings. For questions regarding product suitability and detailed instructions for floor preparation and installation in these applications, please contact Armstrong.

#### Suitable for Application Over

- Concrete, terrazzo, and other dry, structurally sound monolithic subfloors, which are suspended, on grade, or below grade.
- Suspended wood subfloor construction with approved wood underlayments, and a minimum of 18 in. (45.7 cm) well-ventilated air space below.
- Steel, stainless and aluminum floors and most existing single-layer resilient floors on approved underlayments.
- Radiant-heated subfloors with a maximum surface temperature of 85° F (29° C).

#### Unsuitable for Application Over

- Subfloors where excessive moisture or alkali is present.
- Sleeper-constructed wood subfloors, on grade or below grade.
- Lightweight aggregate concrete subfloors having a density of less than 90 lbs. per cu. ft. (1442 kg/m<sup>3</sup>) or cellular concrete having a plastic (wet) density less than 100 lbs. per cu. ft. (1602 kg/m<sup>3</sup>) [94 lbs. per cu. ft. (1506 kg/m<sup>3</sup>) dry weight], or concrete having a compressive strength of less than 3500 psi (24 MPa). Concrete slabs with heavy static and/or dynamic loads should have higher design strengths and densities calculated to accommodate such loads.

Concrete curing agents, sealers, hardeners, or parting agents should be removed.

#### TECHNICAL DATA

##### Shipping Weight

MEDINTECH: 6.1 lbs./sq. yd. (3.3 kg/m<sup>2</sup>)  
 MEDINTECH Tandem: 5.4 lbs./sq. yd. (2.9 kg/m<sup>2</sup>)  
 ROYAL: 5.7 lbs./sq. yd. (3.7 kg/m<sup>2</sup>)

##### Gloss (typical value)

MEDINTECH and MEDINTECH Tandem: 60 degrees specular; approximately 5-15  
 ROYAL: 60 degrees specular; approximately 5-10

##### Reference Specifications

MEDINTECH and ROYAL: ASTM F 1913  
 MEDINTECH Tandem: ASTM F 1303, Type II, Grade 1, Class A backing

##### Static Load Limit

MEDINTECH and ROYAL: 750 lbs./sq. in. (52.73 kg/cm<sup>2</sup>)  
 MEDINTECH Tandem: 500 lbs./sq. in. (35.16 kg/cm<sup>2</sup>)  
 ASTM F 970 modified by specifying a higher load on a smaller diameter tip. All other conditions are standard.

**NOTE:** Floors should be protected from sharp-point loads and heavy static loads. High-heeled traffic [1000 psi (70.3 kg/cm<sup>2</sup>) or more] may visibly damage wood, resilient and other floor coverings.

##### Comparative Subjective Property Ratings

MEDINTECH and ROYAL:

Durability – Excellent

Maintainability – Excellent

Resilience – Excellent

MEDINTECH Tandem:

Durability – Very Good

Maintainability – Excellent

Resilience – Very Good

Subjective ratings (excellent, very good, good, fair) are in relation to other Armstrong commercial resilient floors. Ratings are not directly related to any one test. They are broadly based on tests and experience of Armstrong Research and Development under varying conditions and circumstances. These ratings should not be used for comparison to ratings used by other manufacturers to rank their own products.

##### Fire Test Data

ASTM E 648 Flooring Radiant Panel Critical Radiant Flux – 0.45 watts/cm<sup>2</sup> or more – Class I  
 ASTM E 662 Smoke Chamber Specific Optical Smoke Density – 450 or less  
 Numerical flammability ratings alone may not define the performance of the product under actual fire conditions. These ratings are provided only for use in the selection of products to meet the specified limits.

#### INSTALLATION

##### Job Conditions

Subfloors/underlayments shall be dry, clean, and smooth. They shall be free from paint, varnish, solvents, wax, oil, existing adhesive residue, or other foreign matter.

For more detailed requirements of concrete, wood and metal subfloors, as well as wood and trowelable underlayments, refer to Armstrong Guaranteed Installation Systems manual, F-5061. Moisture testing must be performed on all concrete slabs regardless of their age or grade level including areas where resilient flooring has already been installed. Moisture Vapor Emission Rate (MVER) or percent relative humidity tests must be conducted. Armstrong offers a guideline of a maximum acceptable MVER of 5.0 lbs./1000 sq. ft./24 hours per ASTM F 1869 or 80% RH per ASTM F 2170. Bond Tests should also be conducted for compatibility with the substrate. When testing for alkalinity, the allowable readings for the installation of Armstrong flooring are 5 to 9 on the pH scale.

Temperature shall be maintained at a minimum of 65°F (18°C) and a maximum of 100°F (38°C) for 48 hours prior to installation, during installation and 48 hours after completion when using Armstrong S-599 Adhesive. When using Armstrong S-240 Epoxy Adhesive, the temperature shall be maintained at a minimum of 65°F (18°C) and a maximum of 85°F (29°C) for 48 hours prior to installation, during installation and 48 hours after completion. A minimum temperature of 55°F (13°C) shall be maintained thereafter. Condition all flooring materials and adhesives to room temperature at least 48 hours prior to starting installation. Protect all materials from the direct flow of heat from hot-air registers, radiators, or other heating fixtures and appliances.

##### Procedure

MEDINTECH and ROYAL must be installed using Armstrong S-599 Adhesive full spread, S-580 Adhesive in flash cove areas, and heat weld seams or seal with S-761 Seam Adhesive. In areas with heavy concentrated static or dynamic loads, it may be necessary to install with S-240 Epoxy Adhesive. Detailed instructions may be found in the Armstrong Guaranteed Installation Systems manual, F-5061.  
 MEDINTECH Tandem must be installed using S-235 or S-599 Adhesive full spread, S-580 optional in flash cove areas and heat weld seams or seal with S-761 Seam Adhesive. Detailed instructions may be found in the Armstrong Guaranteed Installation Systems manual, F-5061.

#### MAINTENANCE

Designed to be maintained using traditional resilient flooring maintenance methods. These floors may be maintained by polishing, spray-buffing or dry buffing. The urethane protective finish can make initial maintenance easier, as well as reduce ongoing maintenance procedures.

##### Initial Maintenance Immediately After Installation

- Sweep or vacuum thoroughly.
- Damp mop with a dilute neutral detergent solution such as Armstrong S-485 Floor Cleaner – carefully wiping up black marks and excessive soil.
- Do not wash, scrub or strip the floor for at least four to five days after installation.

##### Preparation for Commercial Use

For specific, ongoing maintenance procedures see Commercial Resilient Flooring Maintenance Recommendations booklet, F-8663.

#### WARRANTIES

Armstrong warrants its regular (first quality) commercial resilient floors and wall base to be free from manufacturing defects for five years from the date of purchase. Armstrong also warrants the installation integrity of its commercial floor for five years from the date of purchase, if installed according to the Armstrong Guaranteed Installation Systems manual, F-5061. See Armstrong Commercial Floor Warranty, F-3349 or visit [armstrong.com](http://armstrong.com) for warranty details, limitations and exclusions.

**WARNING: EXISTING IN-PLACE RESILIENT FLOOR COVERING AND ASPHALTIC ADHESIVES. DO NOT SAND, DRY SWEEP, DRY SCRAPE, DRILL, SAW, BEADBLAST, OR MECHANICALLY CHIP OR PULVERIZE EXISTING RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC "CUTBACK" ADHESIVE, OR OTHER ADHESIVE.**

These existing in-place products may contain asbestos fibers and/or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the existing in-place product is a non-asbestos-containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content and may govern removal and disposal of material. See current edition of the Resilient Floor Covering Institute (RFCI) publication Recommended Work Practices for Removal of Resilient Floor Coverings for instructions on removing all resilient floor covering structures or contact your retailer or Armstrong World Industries, Inc. 1 800 233 3823.

The floor covering or adhesive in this package does NOT contain asbestos.

The knowledge and technical support you need to bring your vision to life.

Visit [armstrong.com/flooring](http://armstrong.com/flooring) or  
 Call 1 877 ARMSTRONG (276 7876)

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ISO 9001



Quality Management Standard

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