

COMPACT

Collection

2012



Decolan
QUALITY DECORATIVE SURFACES

Cutting Edge Laminates

Decolan proudly presents its decorative and distinct range of high pressure Compact Laminates, available in spectacular colours ranging from solids, wood patterns, abstracts & special textures.



PRODUCT COMPOSITION

Decorative surface papers impregnated with melamine resins are pressed over kraft paper core sheets, impregnated with thermosetting resins. These papers are then cured at a pressure of 7 Mpa and temperature of 150 °C in which the resins polycondense. The finished sheets are finally trimmed and made ready for use.



PRODUCT DESCRIPTION

Greenlam/decolan's successful collection of Compact Laminates is available in various thickness* and size. They are engineered to meet special requirements such as:

- Exceptional self supporting properties
- Greater dimensional stability and flatness
- Resistance to abrasion
- Resistance to water
- Resistance to fire
- Excellent hygiene properties
- Resistance to harmful chemicals and organic solvents
- Simple and quick assembly without the need for edging and adhesive
- In case of combustion, emits low amount of harmful gasses and fumes

Size & Thickness available

Thickness in mm	Size in Feet	Size in mm
4, 6, 9, 10, 12, 18, 25	4 x 8 4.25 x 10	1220 x 2440 300 x 3050
10, 12, 18, 25	5 x 6 5 x 12 6 x 6 6 x 12	1550 x 1830 1550 x 3660 1830 x 1830 1830 x 3660



Outstanding characteristics of Greenlam/decolan Compact Laminates make them ideal for both horizontal and vertical interior applications where the surface should be functional, durable and decorative.

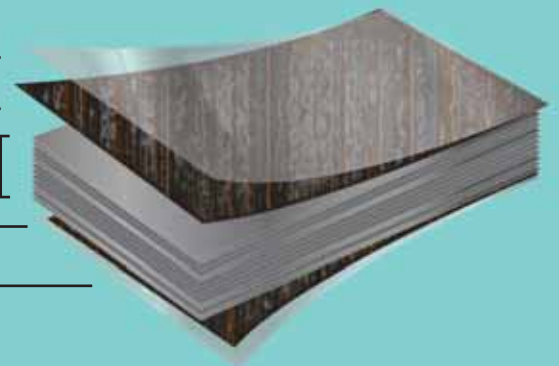
Tissue overlay (for print decors)
impregnated with melamine resins

Solid or print design paper layer
impregnated with melamine resins

Jet black colour kraft paper layers
impregnated with phenolic resins

Solid or print design paper layer
impregnated with melamine resins

Tissue overlay (for print decors)
impregnated with melamine resins



*Other thickness can also be made available on special request.



Kitchen Tops Shelves

Cubicles Desks



Purpose of Panels

Adorn your décor with the best design, quality and performance worktop laminates, manufactured to give a magnificent look to your residential and commercial space.

Compact Application

Explore Greenlam/Decolan's rich array of compact laminates available in elegant solids, versatile abstracts and genuine wood patterns. Add value and uniqueness with décors that can blend well with contemporary lifestyles in various set-ups like

- Restroom Cubicles
- Partitions
- Lockers
- Worktops
- Kid's Furniture
- Lab Furniture
- School Furniture

Children and School certified which means they are good to be used in schools, daycare and healthcare facilities.

Lockers

NEW ARRIVALS 2011-12
a step beyond excellence

**Compact Grade
Laminates with**

NEW ARRIVALS 2011-12

Special Raw Silk Finish

FOR THE FIRST TIME EVER

Greenlam/Decolan introduces
Compact Grade Laminates
with Special Raw Silk Finish to present you
something beyond luxury. Its pure silk pleasure.
Its fresh & soft aura can renew your decor & your life.
Touch it to feel it!



Note : Picture used is only for reference purpose, for actual finish see the sample.

Antibacterial Compact Laminates

Bacteria is present everywhere. You can find them in the air, water, soil, on food, plants and animals, and on just about every other surface – including your own body.

To offer a safe living, Greenlam/Decolan introduces Antibacterial Compact Grade Laminates. These compact laminates retards the growth of nearly 99% of common microbes with utmost efficiency. Freely found bacteria in environment whose growth can be retarded includes:

- *Staphylococcus aureus*
- *Streptococcus faecalis*
- *Escherichia coli*
- *Klebisella pneumoniae*





Makes Your Surfaces Hygienic

Not just beautiful, these compact laminates makes your surfaces germ-free and secure. Produced by permanently incorporating a US-EPA approved, well-known and widely used anti-microbial agent during the manufacturing, this range ensures complete health and hygiene for you and your family.

Wish you a happy and healthy life ahead!



Application Areas



Antibacterial Compact Grade Laminates can be used in the following areas:



- **Restaurants**

- **Laboratories**



- **Hospitals and Health Centres**



- **Lounges, Restrooms, Storage Rooms**



- **Restaurants**

- **Kindergarten**



- **Kitchens**



Chemical Resistant Compact Laminates

Chemical Resistant compacts are meant for the most challenging environments like clinics, pathological labs, photographic darkrooms, classrooms or stylish saloons where working conditions are prone to use of chemicals. This product is engineered by treating the decor paper with special chemicals. The treatment given to the Décor paper is an advanced formulation which provides resistance from chemicals, abrasive materials & other harsh substances.





Advantages

- Chemical resistant
- Cleansing agent tolerant
- Easy to maintain
- Durable
- Cost effective in comparison to expensive substitutes like epoxy, slate & stainless steel.

Application Areas

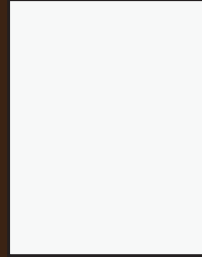
Greenlam/Decolan Chemical Resistant Compact Grade Laminates can be used in the following areas:

- **Labs and pathologists' work rooms**
- **Counters and tabletops in hospitals**
- **Photographers' darkrooms**
- **Beauty salons**
- **Product testing facilities**
- **Nurses' stations, physician and dentist's examining and treatment rooms**

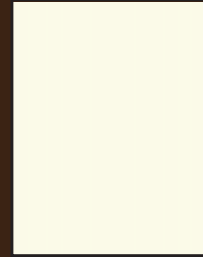


Quality Standards

SOLIDS



111 Designer White



113 Frosty White



133 Moon Stone



141 Beige



166 Blush Pink



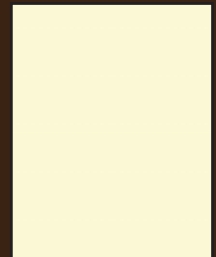
163 Bay



134 Mud Ash



271 Light Grey



124 Mysore Ivory



121 Ivory



230 Cream Yellow



257 Olive



248 Leaf Green



217 Light Orange



275 Pearl Grey



268 Dust



284 Ozone



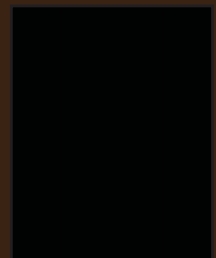
291 Electric Blue



297 Blue Galaxy

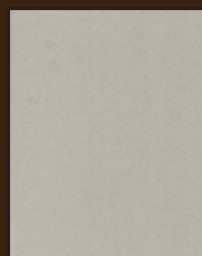


261 Dark Grey



401 Black

ABSTRACT



929 Metaline Grey



923 Meta Silver



5853 Alu Taint

WOODS



682 Hiland Pine



738 Oak



770 Douglas Fur



719 Mangfall Beech



5003 Phillipine Teak



5525 Hickory Oak



5006 Thansau Maple



5018 Brooks Walnut



749 Sapele

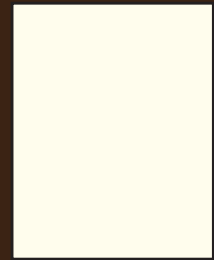


5061 Fine Wenge

RAW SILK



111 Designer White (RSL)



113 Frosty White (RSL)



284 Ozone (RSL)



738 Oak (RSL)



124 Mysore Ivory (RSL)



217 Light Orange (RSL)



261 Dark Grey (RSL)



5061 Fine Wenge (RSL)

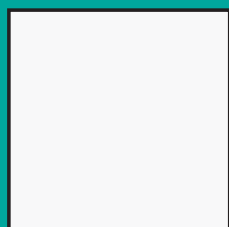
Refer the samples for the actual color of the designs shown.

Note: All sample are in Suede Finish unless mentioned.

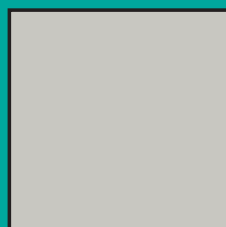
DIMENSIONS OFFERING		
Thickness in mm	Size in Feet	Size in mm
4, 6, 9, 10, 12, 18, 25	4 x 8* / 4.25 x 10*	1220 x 2440* / 1300 x 3050*
10, 12, 18, 25	5 x 6* / 5 x 12* 6 x 6 / 6 x 12	1550 x 1830* / 1550 x 3660* 1830 x 1830 / 1830 x 3660

* For range availability in above mentioned dimensions, contact our office representatives

Chemical Resistance Compact Laminate



9801 ARGENTWHITE



9802 CINEREAL



9803 BLACK

Size Available: 1550 mm x 3660 mm; Thicknesses Available: 12 mm, 13 mm, 16 mm & 18 mm

List of Chemicals ineffective against Chemical Resistant Compact Laminates

Chemicals			
Acids	Methyl Alcohol	Vegetable Oils	Camphorated parachlorophenol
Nitric Acid (all concentrations)	Chloroform	Water	Guaternary Ammonia
Glacial Acetic Acid 99%(concentrated)	Phenol (all concentrations)	Sodium Chromate	Compounds
Sulfuric Acid (all concentrations)	EDTA	Potassium Permanganate	Monsef's Solution (Ferric Subulfate)
Hydrochloric Acid (all concentrations)	Xylene	Silver Nitrate	Ferric Chloride
Phosphoric Acid (all concentrations)	Butyl Alcohol	Formalin	Sodium Azide
Formic Acid (all concentrations)	Amyl Alcohol	Benedicts Solution	Bromothymol Blue
Acetic Acid (all concentrations)	Amyl Acetate	Phosphate Buffered Saline(PBS)	Phenolphthalein
Hydrofluoric Acid 48%(concentrated)	Cresol	Copper Sulphate	Methyl Red
Aqua Regia	Dioxane	Petroleum Jelly	Methyl Orange
Chromic Trioxide (Chromic Acid Cleaning Solution)*	Trichloroethane	Aluminon	Gentian Violet 1%
Picric Acid 1.2% (0.05M)	Chlorobenzene	Ethylene Glycol	Wright's Blood Stain
Tannic Acid (sat.)	Dimethylformamide	Ethyle Acetate	Methylene Blue
Uric Acid (sat.)	Methylene Chloride	Ethyl Ethor	Nigrosine
Bases	Methyl Ethyl Ketone	Pine Oil	Crystal Violet
Sodium Hydroxide (all concentrations)	Methylated Spirits	Methyl Methacrylate	Malachite Green
Sodium Sulfide 15%	Naphthalene	Alconox (Lab. Detergent)	Cresol Red
Ammonium Hydroxide (all concentrations)	Tetrahydrofuran	Karl Fisher Reagent	Thymol Blue
Pottassium Hydroxide	Denatured Alcohol	Urea	Subsulphate purified
Sodium Carbonate Saturated solution	Anilene Blue	Naphtha	Isopropyl Alcohol
Furfural	General Reagents	Cellosolve	Citric acid
Solvents	Sodium Hypochlorite 5%	Ammonium Phosphate	Ethanol (50%)
Carbon Tetrachloride	Calcium Hypochlorite (concentrated)	Iodine	Fresh Coffee
Carbon Disulfide	Hydrogen Peroxide 3%	Povidone Iodine	Household Ammonia
Acetone	Trisodium Phosphate 30%	Tincture of Mercurochrome	#2 Pencil
Benzene	Sodium aThiocyanate	Tincture of Iodine	Stamp pad ink
Formaldehyde	Zinc Chloride	Tincture of Merthiolate	Shoe Polish
Methanol	Lactated Ringers	Eucalyptol	Tea Bag
Ethyl Acetate	Sucrose 50%	Eucalyptol Ferric	Wax crayon
Toluene	Gasoline	Procaine	Yellow Mustard
n-Hexane	Kerosene	Zinc Oxide Ointment	
Ethyl Alcohol	Nail polish remover	Aromatic Ammonia	
	Mineral Oil	Thymol & Alcohol	

Greenlam/Decolan Compact Laminates

TECHNICAL SPECIFICATIONS		TYPE - COMPACT LAMINATE - CGS		
S.No.	Properties	Unit	Specified Values NEMA LD 3-2005	Typical Value
1	Thickness	mm	12.00 ± 0.60	12.00 ± 0.40
2	Appearance		No ABC Defect	No ABC Defect
3	Straightness	mm / meter (Max.)	1.5	1.2
4	Diagonal difference	mm (Max.)	6	3
5	Warpage			
	a) Single side decorative surface	mm (Max.)	120	40
	b) Double side decorative surface	mm (Max.)	12	6
6	Light resistance	Rating (Min.)	Slight effect	Slight effect
7	Cleanability	Rating (Max.)	20	10
8	Stain		No effect	No effect S
	a) Reagents 1 - 10	Rating (Min.)	Moderate effect	light effect
	b) Reagents 11 - 15			
9	Boiling water resistance	Rating (Min.)	No effect	No effect
10	High temperature resistance	Rating	Slight effect	No effect
11	Ball impact resistance	mm (in) (Min.)	1900 (75")	2540 (100")
12	Dimensional change			
	a) Machine direction	% (Max.)	0.3	0.15
	b) Cross direction	% (Max.)	0.7	0.30
13	Room temperature dimensional stability			
	a) Machine direction	% (Max.)	0.3	0.10
	b) Cross direction	% (Max.)	0.7	0.20
14	Wear resistance	Cycles (Min.)	400	400
15	Flexural strength			
	a) Machine direction	Mpa (Min.) (MD)	124	130
	b) Cross direction	Mpa (Min.) (CD)	82.7	85
16	Flexural modulus			
	a) Machine direction	Mpa (Min.) (MD)	11000	11500
	b) Cross direction	Mpa (Min.) (CD)	9650	10000
17	Tensile strength			
	a) Machine direction	Mpa (Min.) (MD)	124	135
	b) Cross direction	Mpa (Min.) (CD)	82.7	90

Greenlam/Decolan Compact Laminates

TECHNICAL SPECIFICATIONS			4 mm*		6 mm*		9 mm*	
S.No.	Properties	Unit	Specified Values As Per BS EN 438 & IS 2046 : 1995	Typical Value	Specified Values As Per BS EN 438 & IS 2046 : 1995	Typical Value	Specified Values As Per BS EN 438 & IS 2046 : 1995	Typical Value
1	Thickness	mm	4.0 ± 0.30	4.0 ± 0.20	6.0 ± 0.35	6.0 ± 0.20	9.0 ± 0.35	9.0 ± 0.25
2	Resistance to dry heat at 180° C	Grade	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
3	Resistance to surface water	Rev.	350 (Min.)	400	350 (Min.)	400	350 (Min.)	400
4	Resistance to immersion in boiling water							
	a) Mass increase	%	2.0 (Max.)	0.60	2.0 (Max.)	0.55	2.0 (Max.)	0.48
	b) Thickness	%	2.0 (Max.)	0.80	2.0 (Max.)	0.72	2.0 (Max.)	0.70
	c) Appearance	Grade	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
5	Dimensional stability at deviated temperature							
	a) Longitudinal	%	0.06 (Max.)	0.04	0.06 (Max.)	0.03	0.06 (Max.)	0.03
	b) Transverse	%	0.53 (Max.)	0.20	0.53 (Max.)	0.15	0.53 (Max.)	0.14
6	Dimensional stability at 20° C							
	a) Longitudinal	%	0.16 (Max.)	0.12	0.16 (Max.)	0.10	0.16 (Max.)	0.10
	b) Transverse	%	0.28 (Max.)	0.20	0.28 (Max.)	0.15	0.28 (Max.)	0.14
7	Resistance to impact by large diameter ball							
	a) Drop height	cm	1800 mm	2500 mm	1800 mm	2500 mm	1800 mm	2500 mm
	b) Diameter of indentation	mm	10 (Max.)	4	10 (Max.)	4	10 (Max.)	4
8	Resistance to scratch	N	2.0 (Min.)	2.5	2.0 (Min.)	2.5	2.0 (Min.)	2.5
9	Resistance to staining							
	a) Group 1 & 2	Grade	Not worse than 5	6	Not worse than 5	6	Not worse than 5	6
	b) Group 3 & 4	Grade	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
10	Resistance to colour change							
	a) In Xerox Arc light	Grade	Not worse than 6	6	Not worse than 6	6	Not worse than 6	6
	b) In enclosed Carbon Arc light	Grade	Not worse than 5	5	Not worse than 5	5	Not worse than 5	5
11	Resistance to cigarette burns	Grade	Not worse than 3	4	Not worse than 3	4	Not worse than 3	4
12	Resistance to steam	Grade	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
13	Resistance to crazing	Grade	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
14	Resistance to moisture	Grade	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
15	Flexural modulus	Mpa	10000 (Min.)	11000 - 12000	10000 (Min.)	11000 - 12000	10000 (Min.)	11000 - 12000
16	Flexural strength	Mpa	100 (Min.)	100 - 120	100 (Min.)	100 - 120	100 (Min.)	100 - 120
17	Tensile strength	Mpa	70 (Min.)	80 - 90	70 (Min.)	80 - 90	70 (Min.)	80 - 90

* Produced in 4'x8' & 4.25'x10' Sizes only

Greenlam/Decolan Compact Laminates

TECHNICAL SPECIFICATIONS			12 mm		18 mm	
S.No.	Properties	Unit	Specified Values As Per BSEN 438 & IS 2046 : 1995	Typical Value	Specified Values As Per BSEN 438 & IS 2046 : 1995	Typical Value
1	Thickness	mm	12.0±0.5	12.0±0.40	18.0±0.70	18.0±0.50
2	Resistance to dry heat at 180° C	Grade	Not worse than 4	5	Not worse than 4	5
3	Resistance to surface water	Rev.	350 [Min.]	400	350 [Min.]	400
4	Resistance to immersion in boiling water					
	a) Mass increase	%	2.0 [Max.]	0.5	2.0 [Max.]	0.20
	b) Thickness	%	2.0 [Max.]	0.7	2.0 [Max.]	0.40
	c) Appearance	Grade	Not worse than 4	5	Not worse than 4	5
5	Dimensional stability at deviated temperature					
	a) Longitudinal	%	0.06 [Max.]	0.03	0.06 [Max.]	0.03
	b) Transverse	%	0.53 [Max.]	0.12	0.53 [Max.]	0.10
6	Dimensional stability at 20° C					
	a) Longitudinal	%	0.16 [Max.]	0.08	0.16 [Max.]	0.08
	b) Transverse	%	0.28 [Max.]	0.13	0.28 [Max.]	0.10
7	Resistance to impact by large diameter ball					
	a) Drop height	cm	1800 mm	2500 mm	1800 mm	2500 mm
	b) Diameter of indentation	mm	10 [Max.]	4	10 [Max.]	4
8	Resistance to scratch	N	2.0 [Min.]	2.5	2.0 [Min.]	2.5
9	Resistance to staining					
	a) Group 1 & 2	Grade	Not worse than 5	6	Not worse than 5	5
	b) Group 3 & 4	Grade	Not worse than 4	5	Not worse than 4	5
10	Resistance to colour change					
	a) In Xerox Arc light	Grade	Not worse than 6	6	Not worse than 6	6
	b) In enclosed Carbon Arc light	Grade	Not worse than 5	5	Not worse than 5	5
11	Resistance to cigarette burns	Grade	Not worse than 3	4	Not worse than 3	4
12	Resistance to steam	Grade	Not worse than 4	5	Not worse than 4	5
13	Resistance to crazing	Grade	Not worse than 4	5	Not worse than 4	5
14	Resistance to moisture	Grade	Not worse than 4	5	Not worse than 4	5
15	Flexural modulus	Mpa	10000 [Min.]	11000	10000 [Min.]	12000
16	Flexural strength	Mpa	100 [Min.]	120	100 [Min.]	120
17	Tensile strength	Mpa	70 [Min.]	90	70 [Min.]	90

Chemical Resistant Compact Laminates

TECHNICAL SPECIFICATIONS				
S.No.	Properties	UNIT	Specified Values NEMA LD-3:2005	Typical Value
1	Thickness	mm	12.00 +/- 0.60	12.00 +/- 0.40
2	Appearance		No ABC defects	No ABC defects
3	Straightness	mm/ meter (max.)	1.5	1.2
4	Diagonal Difference	mm (max.)	6	3
5	Flatness (allowable warp)	mm (max.)	12	6
6	Light Resistance	Rating (min.)	Slight Effect	Slight Effect
7	Cleanability	Rating (max.)	20	10
8	Stain			
	a) Reagents 1-10	Rating (min.)	No Effect	No Effect
	b) Reagents 11-15	Rating (min.)	Moderate Effect	Slight Effect
9	Boiling Water Resistance	Rating (min.)	No Effect	No Effect
10	High Temperature Resistance	Rating	Slight Effect	No Effect
11	Ball Impact Resistance	mm (in) (min.)	1900 (75")	2540 (100")
12	Dimensional Change			
	a) Machine Direction	% (max.)	0.3	0.15
	b) Cross Direction	% (max.)	0.7	0.3
13	Room Temperature Dimensional Stability			
	a) Machine Direction	% (max.)	0.3	0.1
	b) Cross Direction	% (max.)	0.7	0.2
14	Wear Resistance	Cycles (min.)	400	600
15	Scratch Resistance	N (min)	2.5	4.0
16	Flexural Strength			
	a) Machine Direction	Mpa (min.) (MD)	124	130
	b) Cross Direction	Mpa (min.) (CD)	82.7	85
17	Flexural Modulus			
	a) Machine Direction	Mpa (min.) (MD)	11000	11500
	b) Cross Direction	Mpa (min.) (CD)	9650	10000
18	Tensile Strength			
	a) Machine Direction	Mpa (min.) (MD)	124	135
	b) Cross Direction	Mpa (min.) (CD)	82.7	90
19	Chemical & Stain Resistance	Conforms to SEFA 8.1-PL-2010; Chemical Spot Test*		

Chemical Resistant Compact Laminates

TECHNICAL SPECIFICATIONS		UNIT	TEST METHOD AS PER BS EN 438 Part 2 & 3:2005	Specified Values	Typical Value
S.No.	Properties				
1	Thickness	mm	EN 438-4- 5	12.0 ± 0.60	12.0 ± 0.40
2	Resistance to Dry Heat at 180° C	Rating	EN 438-2 -16	Not worse than 4	5
3	Resistance to Surface Wear	Rev.	EN 438-2 -10	350 (min.)	600
4	Resistance to Immersion in Boiling Water (2 hours)		EN 438-2 - 12		
	a) Mass Increase	%		2.0 (max.)	0.20
	b) Thickness	%		2.0 (max.)	0.70
	c) Appearance	Rating		Not worse than 4	5
5	Dimensional Stability at Elevated Temperature		EN 438-2 - 17		
	a) Longitudinal	%		0.30 (max)	0.07
	b) Transverse	%		0.60 (max)	0.14
6	Resistance to Impact by Large Diameter Ball				
	a) Drop Height	cm	EN 438-2 - 21	1800	2500
	b) Diameter of Indentation	mm		10 (max.)	7
7	Resistance to Scratching	N	EN 438-2 - 25	2.0 (min.)	4.0
8	Resistance to staining	Rating	EN 438-2 - 26	5	5
		Rating		4	≥ 4
9	Resistance to Cigarette Burns	Rating	EN 438-2 - 30	Not worse than 3	4
10	Resistance to Water Soak at 65°C for 48 hours	Rating	IS 2046:1995, Annexure Y	Not worse than 4	5
11	Resistance to Crazeing	Rating	EN 438-2 - 24	Not worse than 4	5
12	Flexural Modulus	Mpa	EN ISO 178:2003	9000 (min.)	11000
13	Flexural Strength	Mpa	EN ISO 178:2003	80 (min.)	120
14	Tensile Strength	Mpa	EN ISO 527-2:1996	60 (min.)	90
15	Density	g/cm ³	EN ISO 1183 -1:2004	1.35	1.45
16	Chemical & Stain Resistance		Conforms to SEFA 8.1-PL-2010; Chemical Spot Test *		



Decolan

QUALITY
DECORATIVE
SURFACES

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