CROWN
LAMINATES & Beyond

CROWN DÉCOR PVT.LTD.

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CROWN XCL
XTERIOR COMPACT LAMINATES

XTERIOR COMPACT LAMINATES



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XTERIOR COMPACT
Laminates

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INTRODUCTION

Crown Decor, a Royale Touche laminate group company, a niche Luxury Laminate brand from India, was launched in 1978 with the idea that a laminate has unlimited potential in surface decor. They made people to look at laminates as a resilient and flexible product. They gave laminates a complete makeover with unparalleled endless design and textures. The product has rich luxurious feel that adds aesthetic value to interiors that makes architect, end users and interior designer's life easy.

With over 45 years of experience in the manufacturing industry, group has seven production lines of high pressure laminates producing over 18 million sq mtr. annually in 4 different sizes and in thickness ranging from 0.6mm to 25mm which are made of 100% phenolic resin. The laminates are manufactured at a qualifying facility equipped with imported machinery from Spain, Italy and Germany. Products are created with imported design papers made from highly stable and resistant pigments which guarantees freshness years after years of its use. All the products bear Greenguard, Greenbuilding, FSC, CE, EN 438 and Fire Rating Certification. It's an Indian Power Brand classified product.

Crown Decor also produces Compact Laminates in interior and exterior grade. Interior grade laminates are used for Toilet Cubicles and Partitions, Lockers, Wall Panelling etc. In addition they also make Chemical Resistant Laboratory Grade Compact Laminates suitable for manufacture of Lab Furniture.

Exterior Grade Laminates are used for Building Facade/Cladding, Balconies, Verandah, Fences Outdoor Benches, Table Tops etc, also in production range are anti skid / anti slippery surface laminates suitable for deck and outdoor flooring application. They have completed several projects pan India and overseas.

Crown Decor is an integrated manufacturer of building and construction products providing hi-pressure laminates, vitrified tiles and synthetic adhesives for global and domestic clients alike.

- Water Resistant
- Colourfast
- Environment Friendly
- Rot Resistant
- Flame Resistant
- Easy To Clean
- Heat Resistant
- Scratch Resistant
- Stain Resistant
- Stability
- Weather Resistant
- Minimum Maintenance
- Resistant To Cigarette Burns
- Impact Resistant
- Sleek Modern Design
- Suitable for Contract use
- Indoor and Outdoor use



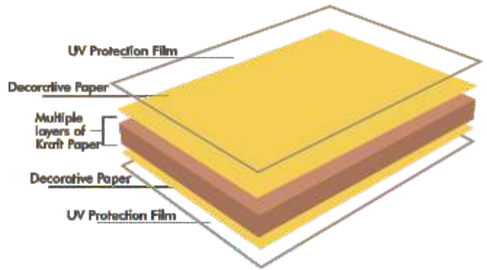


COMPOSITION

CrownXCL is a high pressure structural laminate, built up from multiple layers of kraft papers to produce laminate in thickness from 2 to 25mm. It has a decorative face on both sides and is ideal for Building Facade/Cladding, Balconies, Verandah, Fences, Outdoor Benches, Table Tops, Anti Skid / Anti Slippery surface laminates suitable for deck and outdoor flooring application etc. It is particularly suited to use in high humidity, high impact area.

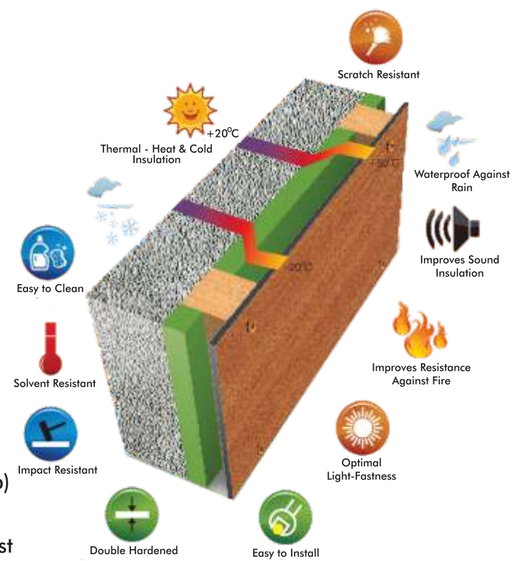
With a density of 1.45gms/cm3. Compact is impressively strong, damage resistant and has remarkable structural stability, requiring no substrate support in thickness over 6mm.

CrownXCL exterior compact laminate conforms to EN 438:4 and meets conformity with European Consumer Safety, Health and Environmental equirements.



FEATURES & BENEFITS

- ★ Decorative
- ★ High Weather Resistance
- ★ Optimal Light Fastness
- ★ Scratch Resistance
- ★ Solvent Resistance
- ★ Self Supporting
- ★ Impact Resistance
- ★ Heat Resistance
- ★ Fire Resistance
- ★ Easy to Clean and Maintain
- ★ Overall Light Weight Substructure and facade
- ★ Sustainability
- ★ Quick and Easy to Assemble
- ★ Increased Sound Proofing Function (upto 15 Db)
- ★ Decrease Air Conditioning Costs
- ★ Provide Wall Protection & Heat Insulation against Atmospheric Precipitation

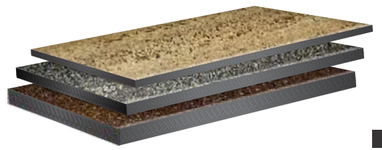


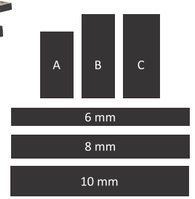
DIMENSIONS

2440 x 1220 mm
3050 x 1220 mm
3050 x 1300 mm*
3660 x 1830 mm*
*(Available in Selected Colours)

THICKNESS

6, 8 and 10 mm





DECOR

Double - sided Decor
Single - sided Decor
(available upon request)

FINISH

Suede Finish
Note : Custom finishes available upon request in 1220 x 2440mm size only.

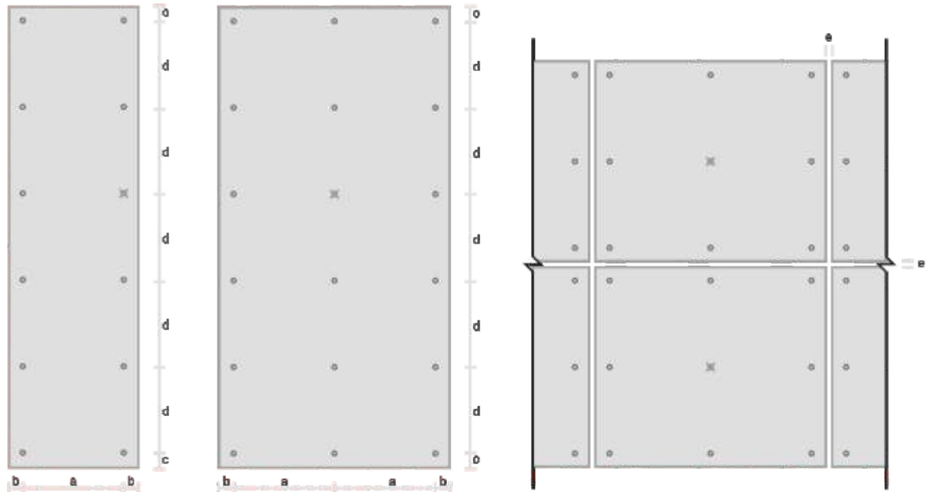
PERFORMANCE

Properties	Standard Value	CrownXCL Value
Apparent Density	1.35g/cm^3	1.45g/cm^3
Flexural Strength	80N/mm^2	114N/mm^2
Modulas of elasticity	9000N/mm^2	13966N/mm^2
Tensile Strength	60N/mm^2	66N/mm^2
Dimentional stability at elevated temperatures	Lengthwise: 0.40% Crosswise: 0.80%	Lengthwise: 0.25% Crosswise: 0.40%
Artificial Weathering	Grey Scale: Rating 3 Appearance: Rating 4	Grey Scale: Rating 4 Appearance: Rating 4
UV-light resistance	Grey Scale: Rating 3 Appearance: Rating 4	Grey Scale: Rating 4 Appearance: Rating 4

FIRE BEHAVIOUR

Valid in	Test Method	CrownXCL Value
Canada	CAN/ULC S134	Passed
Europe	CSN EN 13501-1+A1	B-s1, d0 (Passed)
USA	NFPA 285	Passed
Canada + USA	ASTM E 84	Flame Spread Index: 10 Smoke Developed: 0

SPACING



✖ Represents a fixed point.

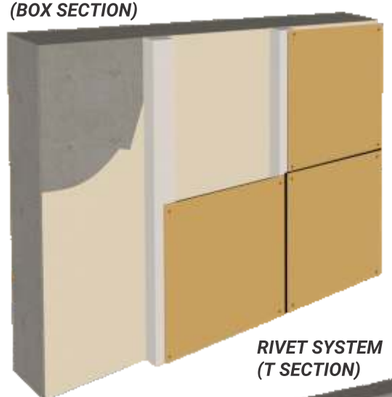
The diagrams above show the optimal space between fasteners and the edge pf the panel. It also displays the optimal spacing between individual panels. These are guidelines and can be altered appropriately depending on the project.

Panel Thickness *	Maximum Fastener Spacing (a) *	Minimum Edge Distance (b, c) *	Maximum Fastener Spacing (d) *	Expansion Joint (e) *
6mm	600mm	50, 20mm	600mm	6-10mm
8mm	750mm	50, 20mm	750mm	6-10mm
10mm	900mm	50, 20mm	900mm	6-10mm

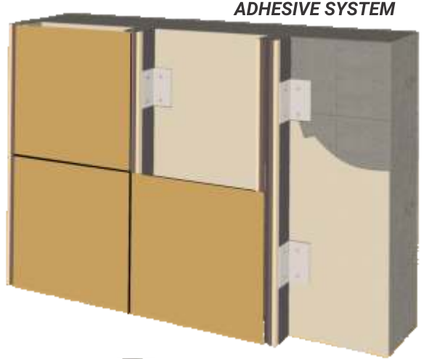
INSTALLATION SYSTEM

CrownXCL installation system is a thermally broken, ventilated rainscreen system that provides maximum efficiency at cost savings compared to alternatives. CrownXCL installation prevents thermal bridging caused by other installation systems. This lessens the environmental impact of the building and can provide significant heating and cooling cost savings for your building. CrownXCL installation system provides ventillation behind the panel, which prevents moisture buildup and increases the longevity of panels.

RIVET SYSTEM (BOX SECTION)



ADHESIVE SYSTEM



RIVET SYSTEM (T SECTION)



APPLICATIONS

LOUVERS



FACADE



GATE



PARAGOLA



SHOP FRONT



BALCONY



PROJECT PICTURES











PROJECT PICTURES











PROJECT PICTURES











PROJECT PICTURES











PROJECT PICTURES





PROJECT PICTURES







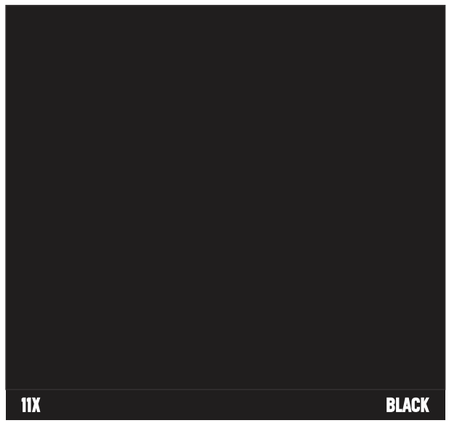




COLOUR RANGE



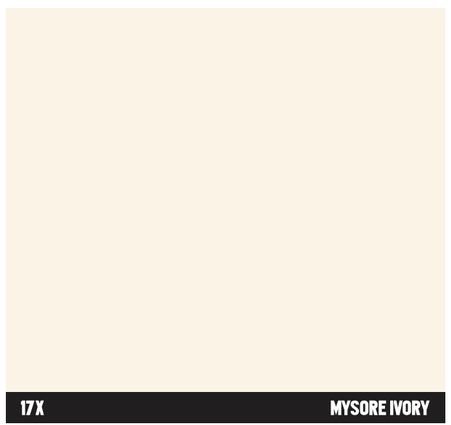
10X LIGHT BLUE WHITE



11X BLACK

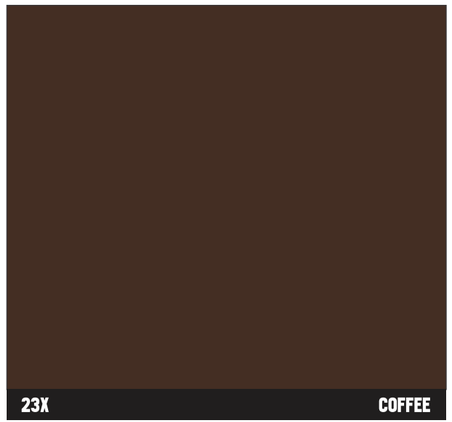


13X EGG WHITE

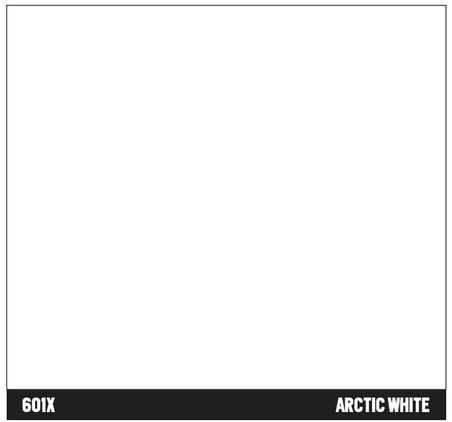


17X MYSORE IVORY

COLOUR RANGE



23X COFFEE



601X ARCTIC WHITE



860X SILVER GREY



603X DARK GREY

COLOUR RANGE



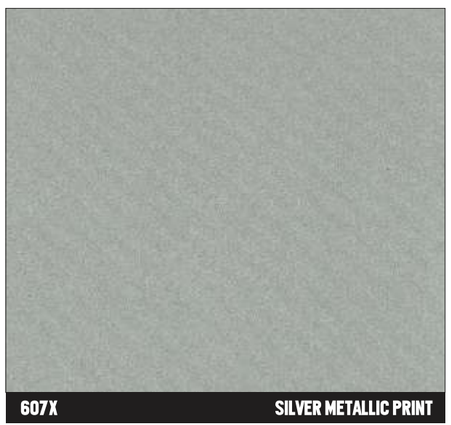
604X GREY



605X RED



606X GREEN



607X SILVER METALLIC PRINT

COLOUR RANGE



608X BEIGE - F033



609X BLUE - F031



610X GREY - F019



611X BEIGE - F032

COLOUR RANGE



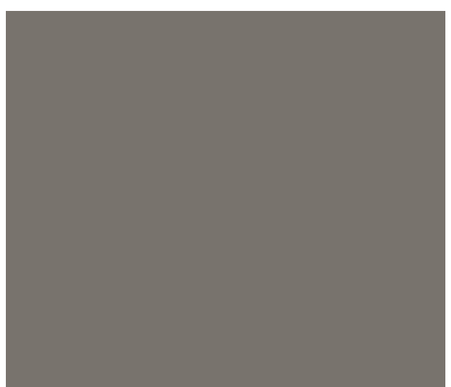
612X GRIS FONSE



613X MONUMENT GREEN



614X PEBBLE GREY



615X METAL GREY

COLOUR RANGE

616X BEIGE



617X OLIVE GREEN



618X WHITE



619X GREY

COLOUR RANGE

856X FROSTY WHITE

871X BEIGE (IRISH CREAM)

851X COLD WHITE



RT 26 LYON WALNUT EXCL

COLOUR RANGE



RT 1334 COLOSSED



631X BAMBUS



632X BAMBUS



633X BAMBUS

COLOUR RANGE



634X BAMBUS



635X BAMBUS



636X BROOKLYN



637X BROOKLYN

COLOUR RANGE



638X PINARA



639X BANANA ABACA



640X CANYON VINTAGE PINE



641X CANYON APPLE

COLOUR RANGE



642X CANYON MONUMENT OAK



643X CANYON MONUMENT OAK



644X CANYON MONUMENT OAK

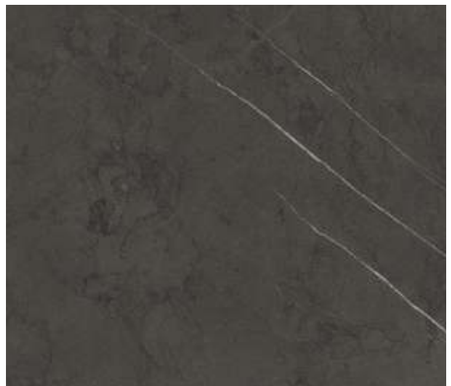


645X AVEIRO ESCHE

COLOUR RANGE



646X BELIDOR



647X GREYSTONE



648X ORIENTAL BROWN



649X CARIO BEECH

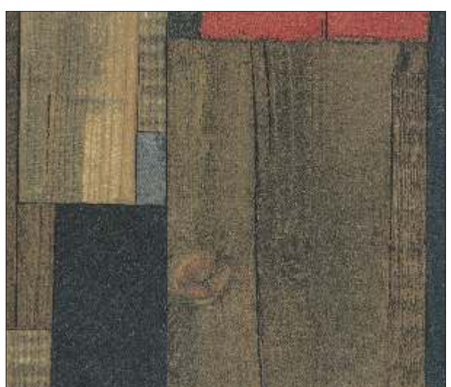
COLOUR RANGE



650X NOTICAL WOOD



651X STUCCO



652X NOTICAL WOOD (RED)



653X SERAVEZZA

COLOUR RANGE



654X STATUARIO VENATO



655X BROOKLYN



656X MONTPELLIER



657X KUBIKUS

COLOUR RANGE



658X TABO SLATE



659X METALIC OXID



660X METALIC OXID



661X GREYSTONE

COLOUR RANGE



662X MAYFIELD FABRIC



663X MAYFIELD FABRIC



664X TEX STONE



665X WALLNUT RIGATO

COLOUR RANGE



EXP 51 NOVECENTO PINE



910X CRIAZA PEAR



RT 1330 MOROCCAN BROWN



EXP 55 INDONESIAN PALM

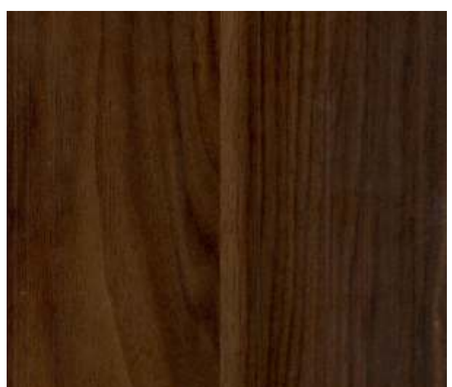
COLOUR RANGE



RC 35 SAPELI



RT 1414 GRACE MAPLE



RT 27 NORTH WALNUT EXCL



RT 1476 SILVER 10

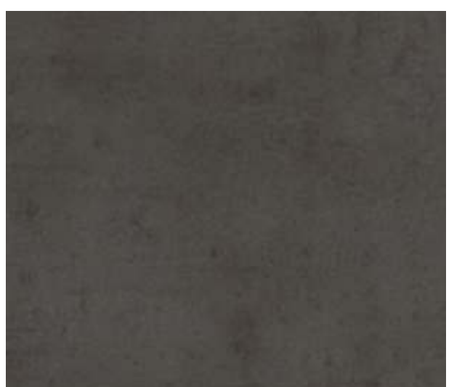
COLOUR RANGE



RT 1521 MANHATTAN



RT 1335 COLOSSED



RT 1522 MANHATTAN



RT 1520 MANHATTAN

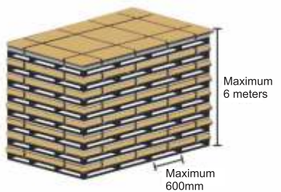
HANDLING & LOGISTIC GUIDELINES

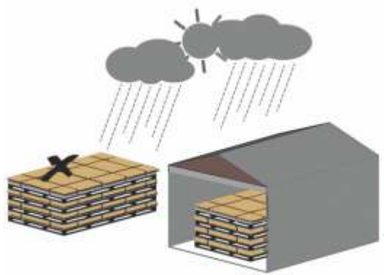
Handle Compact Panels with care in order not to damage the edges and surface of high quality material. In spite of the excellent surface hardness and the protection film, the stack weight of compact weight panel is a possible cause of damage. Therfore, any form of dirt or dust between these panels must be avoided. Panels must be secured against slippages during transportation. When loading and unloading, the panels must be lifted and not pushed or pulled over the edges.

During the handling and installation of compact panels, one must use protection equipments specially hand gloves. Compact panels must be stacked horizontally on flat and stable support with supporting panels. These panels must lie completely flat and the cover plates should be left on the stack. The top cover should be weighed down and must be wrapped by plastic.

The Compact panels are to be stored in a closed room under normal climatic conditions to avoid excess humidity and heat. Appropriate distance to be maintained between each side of the panel.













CERTIFICATIONS













TECHNICAL SPECIFICATIONS

EXTERIOR GRADE COMPACT LAMINATE SIZE : 1220mm x 2440mm & 1220mm x 3050mm			
Sl. No.	Properties	EDF Grade Specification As per EN 438 - part 6	CROWN LAMINATES & Beyond Values
1	Thickness (mm.) (max.)		
	5.00≤ t <8.00 (mm.)	6.00∓0.40mm.	6.15 mm.
2	Length (mm.)	2440.00 + 10.00/-0.00mm.	2441.00 mm.
3	Width (mm.)	1220.00 + 10.00/-0.00mm.	1221.00 mm.
4	Edge Straightness mm. (max)	1.50 mm./m.	0.90 mm./m.
5	Edge Squareness mm. (max)	1.50 mm./m.	0.80 mm./m.
6	Flatness mm. (max)		
	2.00≤ t <6.00 mm.	8.00 mm./m.	4.00 mm./m.
	6.00≤ t <10.00 mm.	5.00 mm./m.	2.50 mm./m.
	t≥10.00 mm.	3.00 mm./m.	1.30 mm./m.
7	Flexural Modulus (min.)	9000 Mpa.	13966 Mpa.
8	Flexural Strength (min.)	80 Mpa.	114 Mpa.
9	Tensile Strength (min.)	60 Mpa.	66 Mpa.
10	Density, gm./cm3 (min.)	1.35 gm./cm3	1.45 gm./cm3
11	Resistence to impact by large diameter ball.		
	a) Drop height mm. (min.)		
	2.00≤ t <5.00 mm. (t=nominal thikness)	1400 mm.	1600 mm.
	t≥5.00 mm.	1800 mm.	2000 mm.
	b) Indentation dia. mm. (max.)	10 mm.	6 mm.
12	Resistence to wet conditions		
	a) Mass increase (%) max.		
	2.00≤ t <5.00 mm. (t=nominal thikness)	10%	4%
	t≥5.00 mm.	8%	3%
	b) Appearance not worse than	Rating 4	Rating 5
13	Dimensional stability at elevated temperature		
	2.00≤ t <5.00 mm. (t=nominal thikness)		
	a) Longitudinal, % max	0.30%	0.25%
	b) Transverse, % max	0.60%	0.40%
	t≥5.00 mm.		
	a) Longitudinal, % max	0.30%	0.12%
	b) Transverse, % max	0.60%	0.10%
14	Resistance to climatic shock		
	a) Appearance	Rating 4	Rating 4
	b) Flexural Strength index, min.	0.95	1.10
	c) Flexural Modulus index, min.	0.95	1.50
15	Resistance to artificial weathering (Including Light Fastness)	After 650MJ/m2 radiant Exposure (1500 hrs)	1500 hrs
	a) Gray scale rating (not worse than)	Rating 3	Rating 4
	b) Apperance (min.)	Rating 4	Rating 4
16	Resistance to UV light	After 1500 hrs Exposure	1500 hrs
	a) Gray scale rating (not worse than)	Rating 3	Rating 4
	b) Appearance (min.)	Rating 4	Rating 4
17	Spread of Flame	Class 1	Class 1
	Remark : E (Exterior Grade), D (Serve Use), F (Flame Retardant Grade)		

ACCESSORIES

 BOX SECTION	 DEAD LOAD BRACKET	 WINDLOAD BRACKET	 U BRACKET	 T - SECTION
 L BRACKET	 NUT BOLT	 FASTERNER	 ALUMINIUM C + RAIL	 FIXED POINT STAPLE
 RIVET	 MOUTH PIECE	 SELF DRILLING SCREW	 PRIMER	 SILICONE
 TAPE	 CUTTING MACHINE	 DRILLING MACHINE		 RIVET GUN

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NEMA LD3-2005