

GERBERT LIMITED

P.O. BOX 4944, LANCASTER, PA 17604-Tel.: (717) 299-5035 FAX: (717) 299-5083

NAIRN PLAIN (BATTLESHIP) LINOLEUM .080" (2.0MM); 1/8" (3.2MM); 3/16" (4.5MM)

RESILIENT FLOORING SPECIFICATIONS

The general provisions of the contract, includ			
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conditions and general requirements (if any) the work specified in this section.	ing general , apply to		
2.0 <u>DESCRIPTION OF WORK</u>			
The extent of Resilient Flooring is shown on d in schedules as specified Nairn Plain (E Linoleum.	rawings and Battleship)		
3.0 FLOORING MATERIAL			
3.1 Material shall be Nairn Plain (Battleship) first quality smooth-surfaced resilient sl covering as manufactured by Forbo Nairn Ltd.	Material shall be Nairn Plain (Battleship) Linoleum, first quality smooth-surfaced resilient sheet floor covering as manufactured by Forbo Nairn Ltd.		
3.2 Nairn Plain (Battleship) Linoleum as Dstribute	d by:		
Distributor			
Name Addres: GERBERT LIV	IITED		
Phone P.O. BOX 4944, LANCASTER, PA 17604—Tel.:(717) 299-50.			
Sub-Distributor or Representative			
Name Address			
Phone Contact	-		

3.3 <u>CONSTRUCTION</u>

Nairn Plain (Battleship) Linoleum homogeneous floor covering shall be of natural materials consisting of linseed oil, cork, wood flour, resin binders, gum and dry pigments, mixed and calendered onto natural jute backing. Pattern and color shall extend throughout total thickness of material. No asbestos.

3.4 PHYSICAL CHARACTERISTICS (dimensions are approximate)

Width - 6'-0" (183cm)

Length - 89'9" approx. (27.4 meters)

Thickness - 1/8" (3.2mm) or 1/10" (2.5mm)

Backing - Jute

3.5 MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS:

3.5.1 <u>Federal Specifications</u> Meets or exceeds LLL-F-1238A

3.5.2 <u>Residual Indentation</u>

Meets or exceeds Federal Specifications LLL-F-1238A. Using a 0.178 inch cylindrical indentor, the floor covering is loaded with a 90 lb. load for 30 seconds. The indentation is measured one hour after the load has been removed. Residual indentation amounts to 0.005" to 0.008" for a thickness of 1/8" (3.2mm).

3.5.3 Flexibility

1/8" (3.2mm) thick Nairn Plain (Battleship) Linoleum can bend around a 2" cylinder without any sign of breaking or cracking.

1/10" (2.5mm) thick Nairn Plain (Battleship) Linoleum can bend around a 1.5" diameter cylinder without any sign of breaking or cracking.

3.5.4 Resistance to Wear

After 5,000 cycles using Taber Abraser with H22 wheels, 1,000 grams load.

Maximum	weight loss	1.62	grams
Average	percentage weight los	s 4.8	percent
Average	loss in thickness	0.015	inches
Average	percent loss in thick	ness 12-15	percent

3.5.5 Fire Resistance

Meets or exceeds requirements for Class I, NFPA Life Safety Code 101 (ASTM E-648).

- 3.5.6 Recommended Load Limits

 Short term load approximately 710 p.si. (50 kg/cm²).

 Long term load approximately 85 p.si. (6 kg/cm²).
- 3.5.7 Resistance to Rolling Loads
 At least 25,000 cycles of 3 wheels each loaded with
 66 lbs./wheel (30 kg/wheel). No damage.
- 3.5.8 Electrical Insulation
 Tested to the method described in NFPA Brochure 56A (National Fire Protection Association), the comparative value for Nairn Plain (Battleship) Linoleum if 1011 Ohms.
- 3.5.9 Thermal Conductivity
 The coefficient of thermal conductivity of Nairn Plain
 (Battleship) Linoleum is 0.210 0.219 W/m.k.
- 3.5.10 <u>Impact Sound Reduction</u>
 Nairn Plain (Battleship) Linoleum in 1/8" (3.2mm) gives an improvement of approximately 6dB.
- Resistance to Bacteria
 Nairn Plain (Battleship) Linoleum appears to provide a selfsanitizing quality in the form of a bactericidal effect.
 Recent tests suggest that Nairn Plain (Battleship) Linoleum
 has a sterile zone around the material, inhibiting
 contaminants such as staphylococcus aureas.
- 3.5.12 <u>Cigarette Resistance</u>
 Nairn Plain (Battleship) Linoleum resists cigarette burns.
 Burning cigarettes will leave only a brown mark, which can be rubbed out using steel wool or a scouring pad.

Hot Chili Paste, Shoe Polish,	TodineStaining
Betadinesilver Nitrate	Staining/Possible Softening
Bitumen	
Methalvne Blue	
Saltwater	No Effect

4.0 JOB CONDITIONS

Installation of Nairn Plain (Battleship) Linoleum shall not proceed until the work of all other trades has been completed, Areas shall be clean, fully especially overhead trades. enclosed, weathertight, and heated to a minimum of 64°F (18°C) for a minimum of 72 hours, prior to, during and after installation is completed. The floor covering rolls should Inspect sub-floor surfaces be conditioned accordingly. It is essential that all sub-floors be rigid, carefully. dry and remain flat, level, clean, finished smooth, permanently dry. Wooden sub-floors must be suspended, well ventilated, and permanently dry. j Concrete sub-floors shall be steel trowel finished smooth, flat and level. Concrete shall be adequately cured and dry, (Maximum content of moisture 3.5%). If needed, sand concrete sub-floor to loosen dirt and other foreign materials. Vacuum to remove dust, loose dirt, and other foreign materials. Patch and repair minor cracks and other imperfections with latex powder and liquid patching materials. Areas to receive Nairn Plain (Battleship) Linoleum must be adequately lighted to allow for proper installation and seaming. See Nairn Plain Battleship installation brochure for more complete details.

5.0 <u>INSTALLATION</u>

Nairn Plain (Battleship) Linoleum shall be installed in a workmanlike manner in strict accordance with manufacturer's approved installation instructions using Forbo Elastocol 635 adhesive.

5.1 ADHESIVE

Forbo Elastocol 635 water emulsion adhesive. Set into wet adhesive, approximately 6 sq. yds. at a time. Trowel - 1/16" standard notch. Capacity - 15 liter/3.97 gal. Spread Rate - 150 sq. ft./gal.

5.2 <u>HEAT WELDED SEAMS (OPTIONAL)</u>

Use Nairn Linoweld color-matched welding rod as manufactured by Forbo Nairn Ltd. Optional for seamless, hygienic, watertight installation requirements. Dimensions - 4mm diameter. Coil - 55 linear yards.

5.3 LINOFORM COVED BASE (OPTIONAL)

Optional matching pre-formed cove base, aluminum reinforced at back radius, as manufactured by Forbo Nairn Ltd. Fitted and heat welded to the wall and floor covering at the seams using Nairn Linoweld welding rod and Forbo 635 Elastocol with manufacturers installation instructions. Cove sections $-6'7'' \times 4'' \times 2''$ (radius 7/16'').

5.4 SEE NAIRN PLAIN (BATTLESHIP) LINOLEUM INSTALLATION BROCHURE FOR MORE COMPLETE DETAILS.

6.0 WARRANTY

Limited 5-year warranty. Contact Forbo Floor Coverings, Inc. for complete details.

7.0 SAMPLES

Submit samples in duplicate of the flooring materials in compliance with the related requirements of the General Conditions. Upon approval one set of samples bearing Architect's approval will be returned to the contractor. The set of samples retained by the Architect shall constitute the standard materials which they represent which are installed on the job.