
NAVFAC IGS-09721 (MAY 2002)

Preparing Activity: LANTNAVFACENGCOM Based on UFGS-09721N

ITALIAN GUIDE SPECIFICATIONS

Use for ITALIAN projects only

SECTION 09721

VINYL COATED FABRIC WALL COVERING
05/02

NOTE: This guide specification is issued by the
Atlantic Division, Naval Facilities Engineering
Command for regional use in Italy.

NOTE: This guide specification covers the
requirements for the provision of vinyl-coated
fabric wall covering.

NOTE: This revision "B" to NFGS-09721 revalidates
the issue dated 30 September 1996.

NOTE: On the drawings, show:

1. Location and extent of work including dimensions
of surfaces to receive wall covering.
2. Pattern and color. When more than one pattern
or color is to be installed, identify location and
extent of work for each pattern and color.
3. Location and profile of cap molding, when
required.
4. Location of corner guards, when required.

NOTE: Comments and suggestion on this specification
are welcome and should be directed to the technical
proponent of the specification. A listing of the
technical proponents, including their organization
designation and telephone number, is on the Internet.

Use of electronic communication is encouraged.

Brackets are used in the text to indicate designer choices or locations where text must be supplied by the designer.

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

ITALIAN NATIONAL INSTITUTE FOR THE UNIFICATION OF STANDARD (UNI)
PUBLICATIONS

UNI 4817-74 Supports lined with polymeric and copolymeric of vinyl chloride. Definitions and requirements.

UNI 4818-74/77 Supports lined with polymeric and copolymeric Parts 1st/29 of vinyl chloride tests.

1.2 SUBMITTALS

NOTE:

Submittals must be limited to those necessary for adequate quality control. The importance of an item in the project should be one of the primary factors in determining if a submittal for the item is required.

A "G" following a submittal item indicates that the submittal requires Government approval. Some submittals are already marked with a "G". Only delete an existing "G" if the submittal item is not complex and can be reviewed through the Contractor's Quality Control system. Only add a "G" if the submittal is sufficiently important or complex in context of the project.

For submittals requiring Government approval on Army projects, a code of up to three characters within the submittal tags may be used following the "G" designation to indicate the approving authority. Recommended codes for Army projects are "RE" for Resident Engineer approval, "ED" for Engineering

approval, and "AE" for Architect-Engineer approval. Codes following the "G" typically are not used for Navy projects.

Submittal items not designated with a "G" are considered as being for information only for Army projects and for Contractor Quality Control approval for Navy projects.

Submit the following in accordance with the section entitled, "Submittal Procedures."

SD-04 Samples

Wall covering; G
[Cap molding]

[Corner guard]

One (1) can of adhesives material

Submit for each type, pattern and color of wall cover. Patterned samples shall be of sufficient size to show a complete pattern.

1.3 DELIVERY AND STORAGE

Vinyl fabric shall be delivered in manufacturer's original unopened containers and rolls with labels intact and legible. Roll materials shall be handled so as to prevent damage to edge or ends, shall be stored on end on clean raised platforms in dry locations with adequate ventilation. Roll materials shall not be stored in any building under construction until concrete, masonry work, tile, and plaster are dry. Wet materials shall be marked and removed from the project site. Immediately before application, roll materials shall be stored for 24 hours in an area maintained at no lower temperature than 10 degrees C.

1.4 ENVIRONMENTAL CONDITIONS

Minimum temperature of area to receive wall covering, before, during, and after installation, and requirements for conditioning adhesive and wall covering shall comply with the wall covering manufacturer's printed instructions. However, in no case shall the area temperature be less than 10 degrees C 50 degrees F, 72 hours prior to, during installation, and until the adhesive is dry. Observe ventilation and safety procedures specified in the MSDS.

PART 2 PRODUCTS

2.1 MATERIALS

2.1.1 Wall Covering

NOTE: Recommended uses of the three types of wall coverings are as follows:

Type I (Light Duty): Above wainscot where wainscot extends at least to top of door openings, and for ceilings.

Type II (Medium Duty): For areas subjected to average traffic wear and scuffing; full height on walls without wainscot or as a wainscot.

Type III (Heavy Duty): Full height on walls without wainscot or as wainscot for areas subjected to excessive traffic wear and scuffing.

NOTE: Specify minimum total weight and minimum coating weight for the wall covering Type selected using the listing below:

Total Weight (kilograms per square meter): Type I - 0.237; Type II - 0.442; Type III - 0.748.

Coating Weight (kilograms per square meter): Type I - 0.170; Type II - 0.237; Type III - 0.407.

Total Weight (ounces per square yard): Type I - 7; Type II - 13; Type III - 22.

Coating Weight (ounces per square yard): Type I - 5; Type II - 7; Type III - 12.

NOTE: Delete last sentence when PVF film is not required. (PVF) top coating is an extra cost additive to basic specification material and is designed to provide additional resistance to staining and soiling when exposed to staining reagents or chemicals or to severe soiling or abuse. Consider PVF film top coating for heavy-use areas; such as dormitories, dining halls, cafeterias, service corridors, medical facilities, and clubs.

UNI 4817-74 and UNI 4818-74/77. Type [I (Light Duty)] [II (Medium Duty)] [(III Heavy Duty)], mildew resistant with a minimum total weight of [0.237] [0.442] [0.748] kilograms per square meter [7] [13] [22] ounces per square yard, and a minimum coating weight of [0.170] [0.237] [0.407] kilograms per square meter [5] [7] [12] ounces per square yard. [A polyvinyl fluoride (PVF) film, 0.0125 mm 0.0005-inch thick shall be factory applied over the face of the wall covering.]

2.1.2 Pattern and Color

NOTE: If pattern and color are not indicated on the drawings, insert the pattern and color required. Provide generic description for pattern and color (e.g., Pattern silky, suede, pebble, burlap weave, etc., color light green, beige, lemon yellow, etc.) or specify a manufacturer's name, pattern, and color designation for desired wall covering. When a manufacturer's name, stock number, pattern, and color is used, be certain that the product conforms to this specification, as edited, and add the following note to the paragraph text:
"Manufacturer's name and stock number are provided to identify pattern, color, and texture desired. Other manufacturers' productions, meeting specified requirements and having similar pattern, color, and texture will be acceptable." Avoid selection of a deeply embossed pattern for use where frequent washing of wall covering is required.

Provide pattern [_____] [as indicated], color [_____] [as indicated].

2.1.3 Primer, Sealer, and Adhesive

Mildew resistant, nonstaining to the wearing surface, and of the type supplied or recommended by the wall covering manufacturer.

2.1.4 Cap Molding

NOTE: Delete if cap molding is not required. A metal, plastic, or wood molding is normally required for wainscot installations. The drawings should include whether metal, plastic, or wood molding is required. If details of cap molding are shown on the drawings this paragraph should be edited accordingly.

[As indicated] [13 to 25 mm 1/2 to one inch high, feathered at the bottom edge, 5 mm 3/16 inch exposed face on the top edge, and grooved to receive the wall covering].

2.1.5 Corner Guard

NOTE: Plastic corner guards provide limited protection to the wall covering and should be specified for external corners subject to heavy pedestrian traffic or moderate mechanical abuse. Where functional use of a facility indicates the need for more substantial protection, the use of

vinyl-coated wall covering may not be advisable or a system of wall guards and high impact resistant corner guards may be required.

Clear acrylic plastic angle with [29] [_____] mm [1 1/8] [_____] inch legs, [1200] [_____] mm [4] [_____] feet long, surface mounted.

2.2 MAINTENANCE MATERIALS (EXTRA STOCK)

NOTE: Extra stock of wall covering may be required. If not, delete this paragraph. Extra stock should be based on anticipated usage. In the absence of experience data, a minimum of one linear meter for each 100 lineal meters one linear foot for each 100 linear feet installed is suggested.

Provide one linear meter one linear foot of full-width wall covering of each pattern and color for each [100] [_____] linear meters [100] [_____] linear feet of wall covering installed. Extra stock shall be of the same manufacture, type, pattern, color, and lot number as the installed wall covering. Provide full rolls, packed for storage and marked with content, pattern, and color. Leave extra stock at the site, as directed.

PART 3 EXECUTION

3.1 INSPECTION

Complete painting and all trade work that penetrates the substrate, before beginning wall covering installation. Inspect rooms and areas to be covered. Test walls for moisture content with an electric moisture meter and take corrective measures if reading is more than 5 percent.

3.2 PREPARATION

Remove dirt, grease, crayon, ink, or other similar markings to prevent color staining or bleeding through the vinyl. Coat markings, which are difficult to remove without damaging the substrate surface, with a white pigmented oil base primer. Remove switch and receptacle cover plates, wall mounted lighting fixtures, and similar items in contact with surfaces to receive wall covering. Fill cracks, crevices, and holes with compound recommended by the wall covering manufacturer. Sand rough spots smooth and remove residual powder using a damp cloth. Surfaces to be covered shall be thoroughly dry. Prime and seal surfaces to be covered, in accordance with the wall covering manufacturer's printed instructions, to permit ultimate removal of the wall covering without damaging the wall surface.

3.3 APPLICATION

3.3.1 Wall Covering

NOTE: For determination of proper quantities of wall covering and adhesive necessary, the drawing must indicate the width and height of areas to receive the wall covering. If more than one wall covering type, pattern, and color is to be used, indicate each room or area number to be covered and specify the type or pattern and color as applicable.

The substrate and conditions in the area shall meet all requirements for a satisfactory installation. Apply adhesive and wall covering in accordance with the manufacturer's printed instructions. After hanging the first three panels, obtain approval of color uniformity and pattern match. Assure that: covering is applied without horizontal joints; internal and external angles are continuous with vertical joints occurring not less than 150 mm 6 inches from the internal or external corner; vertical joints are lapped and double cut or factory trimmed and butted; edges extend not less than 13 mm 1/2 inch behind applied base and trim; seams and corners are securely pasted, so that no moisture or water vapor can get behind the wall covering; and wall covering extends behind edges of switch and receptacle cover plates and other surface-mounted equipment. Hang wall covering to assure that: colors are uniform; patterns are matched at the seams; and finished surfaces are free of air pockets, wrinkles, tears, and other defects.

3.3.2 Cap Molding

Finish the top edge of wainscot-high wall covering with cap molding. Install in accordance with the manufacturer's printed instructions. Assure that: joints butt neatly, are level, and without gaps; molding is straight; and wall covering top edge is completely enclosed.

3.3.3 Corner Guard

Install in accordance with the manufacturer's printed instructions.

3.4 CLEANING

Remove excess adhesive from each seam, in accordance with the adhesive manufacturer's recommendations, and wipe the wall covering clean. There shall be no residual film or stain after cleaning. Reinstall switch and receptacle cover plates, wall mounted lighting fixtures, and similar items removed to permit installation of the wall covering.

-- End of Section --