HOW TO SPECIFY DIAFOS BY ABET LAMINATI DIAFOS HIGH PRESSURE DECORATIVE LAMINATE 1.2 MM R605

Section 06067
Plastic and Metal Surfacing Materials

Note: For additional information, contact:

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Or www.abetlaminati.com

PART I GENERAL

1.1 PRODUCT DELIVERY AND STORAGE

Contractor shall supply and install DIAFOS by ABET LAMINATI high pressure laminate as shown on drawings and as specified.

DIAFOS high pressure laminates must be stored in a horizontal position, supported for their whole length and positioned on edge. Laminate sheets should be protected from moisture and should never be stored in contact with the floor or outside wall.

1.2 PRECONDITIONING

Like wood, a DIAFOS high pressure laminate has a grain direction, and its dimensional behavior with moisture changes is also similar to wood. When humidity changes, the width of the laminate undergoes greater dimensional change than the length (by a ratio of approximately 1.5). As humidity decreases, the laminate sheet contracts, and when the humidity increases, the laminate sheet expands.

DIAFOS high pressure decorative laminates and the substrate should be allowed to acclimate for at least 48 hours at approximately 23 degrees C (73 degrees F) and a relative humidity of 45 % to 55 %. Provision should be made for the circulation of air around the components.

PART IIPRODUCTS

2.1 DIAFOS HIGH PRESSURE LAMINATE

The DIAFOS high pressure laminate shall be ABET LAMINATI laminate supplied by ABET Inc. as follows:

Laminate Type/Grade
Pattern Number
Finish Name

1.2 mm thick DIAFOS High Pressure Laminate
Soft

2.2 ADHESIVES

Semi-rigid (PVAc) or rigid (Urea, Phenol or Resorcinol) adhesives have been found satisfactory for bonding DIAFOS decorative high pressure laminates to core materials. The use of contact adhesives is not recommended. The choice of adhesive is based upon the service for which the assembly is intended and upon the bonding facilities available. In all cases, the adhesive manufacturer's instructions for use should be followed closely. Pressures in excess of 45 psi should not be used, since this could cause a starved glue line or telegraphing of the substrate.

2.3 SUBSTRATES

The high pressure decorative laminate should be bonded to a suitable substrate such as medium-density fiberboard (MDF), high-density fiberboard (HDF), or industrial grade (45 lb density or higher) particleboard (CS-236-66: Type 1, Grade B, Class 2). The following materials are not recommended for use: plaster, gypsum board, concrete, and plywood.

2.4 BACKING SHEET

It is advisable to use the same material on both sides of a DIAFOS panel. DIAFOS backer sheets are recommended for use on the back of the panel to protect the substrate from humidity changes and to minimize warpage. Before using other materials to balance DIAFOS surfaced panels, preliminary warpage tests must be preformed with the backing materials.

PART III EXECUTION

3.1 INSPECTION

All laminate surfaces shall be inspected prior to lamination to ensure they are sound, clean, and free of surface defects. Protective peel coat should be removed prior to inspection.

3.2 PREPARATION

Surfaces are to be sanded and prepared as required to provide a surface that is smooth, clean, free of oil or grease, and uniform in thickness.

3.3 INSTALLATION

ABET LAMINATI cutting and drilling procedures for DIAFOS laminates must be followed. Material, equipment, and workmanship should conform to industry standard practices, conditions, procedures and recommendations as specified by ANSI/NEMA LD-3-2000 (Latest Revision), Annex A, Application, Fabrication, and Installation (of High Pressure Decorative Laminates); Architectural Woodwork Quality Standards (AWI); and DLPA and ANSI 161.2-1979 Standards.

SHORT FORM

Surface shall be DIAFOS by ABET LAMINATI Decorative High Pressure Laminate supplied by ABET Inc., Englewood, N. J.

Type:	1.2 mm thick laminate
Surface:	
Color Number	
Finish:	
Finish Name	Soft