

SECTION 08 14 00

FLUSH WOOD DOORS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Wood doors of types noted and installation of their hardware.
 - 2. [Factory finishing of wood veneer doors.]
 - 3. [Furnishing lead lined doors.]
- B. Related Sections:
 - 1. Section 08 12 13 - Hollow Metal Frames.
 - 2. [Section 08 71 00 - Door Hardware.
 - 3. Section 08 80 00 - Glazing: Glass for vision panels in doors]
 - 4. [Section 09 91 00 - Painting: Field finishing of wood doors.]
 - 5. [Section 13 49 00 - Radiation Protection: Installation of lead lined wood doors.]

1.02 REFERENCE STANDARDS

- A. American National Standards Institute:
 - 1. ANSI A208.1- Wood Particleboard.
- B. [ASTM International:]
 - 1. [ASTM A167 - Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.]
- C. [CBC - California Building Code.]
- D. Forest Stewardship Council:
 - 1. FSC Guidelines - Forest Stewardship Council Guidelines.
- E. [National Fire Protection Association:]
 - 1. [NFPA 80 - Standard for Fire Doors and Other Opening Protectives.]
 - 2. [NFPA 105 - Standard for the Installation of Smoke Door Assemblies and Other Opening Protectives.]
- F. [Underwriters Laboratories Inc.:]
 - 1. [UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies.]
 - 2. [UL 1784 - Air Leakage Tests of Door Assemblies.]
- G. Window and Door Manufacturers Association:
 - 1. WDMA I.S. 1A - Industry Standard I.S. 1A "Architectural Wood Flush Doors".
- H. [Woodwork Institute:]
 - 1. [AWS - Architectural Woodwork Standard.]

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Coordinate flush wood door details with other work supporting or adjoining flush wood doors.

2. Coordinate flush wood door work with door opening construction, frames, door, and hardware installation.
 3. [Coordinate installation of glazing.]
 4. [Coordinate installation of electrical connections to electrical hardware items.]
- B. [Preinstallation Meeting:]
- C. [Sequencing:]
1. [Sequence fabrication and installation to ensure wire connections for electrified door hardware and security devices are achieved in an orderly and expeditious manner.]
- D. Scheduling:
1. Deliver wood doors only after proper facilities are available.

1.04 [SUSTAINABLE CHARACTERISTICS]

- A. Section 01 35 63 - Sustainability Project Requirements: Requirements for sustainable design compliance.
- B. Materials and Resources Characteristics:
1. [Recycled Content Materials: Furnish materials with maximum available recycled content including:
SPEC NOTE *List materials specified in this section required to have recycled content.*
a. [_____].]
 2. [Regional Materials: Furnish materials extracted, processed, and manufactured within 500 miles of Project site.]
SPEC NOTE *List materials specified in this section required to be regional materials.*
a. [_____].]
 3. Certified Wood Materials: [Furnish wood materials]--or--[Use a minimum of 50 percent of wood-based materials and products] certified in accordance with FSC Guidelines.
- C. Indoor Environmental Quality Characteristics:
1. [Interior] Adhesives: Maximum volatile organic compound content in accordance with SCAQMD Rule 1168.
 2. [Interior] Aerosol Adhesives: Maximum volatile organic compound content in accordance with GS-36.
 3. [Interior] Flat and Non-Flat Paints: Maximum volatile organic compound content in accordance with GS-11.
 4. [Interior] Composite Wood and Agrifiber Products: Contain no added urea-formaldehyde resins. Composite wood and agrifiber are defined as: particleboard, medium density fiberboard (MDF), plywood, panel substrates and door cores.

1.05 SUBMITTALS

- A. See Section 01 33 00 - Submittal Procedures, for submittal procedures.
- B. Product Data: Indicate door core materials and construction; veneer species, type and characteristics.
- C. Shop Drawings:
1. Reference each door using Door Number and hardware group.
 2. Show each door indicating opening criteria, door and core type, swing, door elevation, fire-resistive rating, dimensions, machining criteria for hardware, factory finishing criteria, identify cutouts for glazing.

- D. Samples:
1. Submit four samples of door construction, 8 by 10 inch in size cut from top corner of door.
 2. [Wood veneers illustrating species and grain, minimum 6 inches square.]
 3. [Factory finished wood veneers illustrating species, grain, stain color, and sheen, minimum 6 inches square.]
 4. [Plastic laminate for color and pattern verification.
 5. [Plastic laminate covered door, minimum 6 inches square, showing edge core, and face.]
 6. Other Samples only as requested.
- E. Manufacturer's Certificates: Certify compliance with standards designated, governing codes, and applicable labeling agencies.

1.06 [SUSTAINABLE DESIGN SUBMITTALS]

- A. Section 01 35 63 - Sustainability Project Requirements: Requirements for sustainable design submittals.
- B. Manufacturer's Certificate: Certify products meet or exceed specified sustainable design requirements.
1. Materials Resources Certificates:
 - a. Certify source and origin for {salvaged} [and] [reused] products.
 - b. Certify recycled material content for recycled content products.
 - c. Certify source for regional materials and distance from Project site.
 - d. Certify lumber is harvested from FSC Certified well managed forest.
 2. Indoor Air Quality Certificates:
 - a. Certify volatile organic compound content for each interior [adhesive] [and] [sealant] and related primer.
 - 1) Provide product data for adhesives, sealants, sealants primer and aerosol adhesives used in the interior of the building highlighting VOC content of each product used. Adhesives and sealants must meet or exceed the VOC limits of SCAQMD Rule #1168. Refer to the LEED 2009 for New Construction and Major Renovations for acceptable VOC limits
 - 2) Provide a listing of each indoor adhesive, sealant, sealant primer and aerosol adhesive product used in the interior of the project. Include manufacture's name, product name, specific VOC data (g/L less water) for each product, and the corresponding allowable VOC from the referenced standard.
 - b. Certify each composite wood and agrifiber product contains no added urea-formaldehyde resins.
 - 1) Provide product Data for composite wood and agrifiber product highlighting that products contain no urea-formaldehyde resin.
 - 2) Provide a listing of each composite wood and agrifiber product installed in the interior of the building. Confirm that each product does not contain any added urea-formaldehyde.
- C. Product Cost Data: Submit cost of products to verify compliance with Project sustainable design requirements. Exclude cost of labor and equipment to install products.
1. Provide cost data for the following products:
 - a. Salvaged products.
 - b. Reused products.
 - c. Products with recycled material content.
 - d. Regional products.
 - e. Certified wood products.

1.07 QUALITY ASSURANCE

- A. Maintain one copy of the specified door quality standard on site for review during installation and finishing.
- B. [For Rated Doors, if called for on the Drawings, verify that Specified Plastic Laminate is acceptable and will not nullify the fire rating.]

1.08 DELIVERY, STORAGE, AND PROTECTION

- A. Package, deliver and store doors in accordance with specified quality standard.
- B. Prior to delivery to site, identify each wood door with individual Door Number to permit installation at correct location.
- C. Pack wood doors individually in heavy polyethylene bags and then corrugated cardboard containers. Provide additional protection for corners and vertical edges. Break seal on site to permit ventilation.
- D. Deliver, store, and handle items to prevent damage or deformation.
- E. Accept doors on site and inspect for damage.
- F. Deliver and store packaged wood doors in original containers with labels intact until time of use.
- G. Storage and Protection:
 - 1. Provide clean, dry surfaces and flat platforms as required, and protect from deterioration, foreign matter, weather, and exposure to the sun.
 - 2. Seal top and bottom edges with tinted sealer if stored more than one week.
 - 3. Store delivered wood doors in clean, safe, dry area.
 - 4. Do not store in damp or wet areas; or in areas where sunlight might bleach veneer.
 - 5. Do not store on ground.

1.09 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals.
- B. Provide for replacing, including cost of rehangng and refinishing, at no cost to University, wood door exhibiting defects in materials or workmanship.
- C. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.
- D. Interior Flush Wood Doors: Provide manufacturer's warranty for the life of the installation.
- E. Interior Stile and Rail Doors: Provide manufacturer's warranty for five years.

PART 2 PRODUCTS

2.01 GENERAL DOOR REQUIREMENTS

- A. Flush Doors:
 - 1. Doors shall have no lites or louvers; or no lites or louvers greater than one-half door height.
 - 2. Door faces shall be flush and seamless.
- B. [Stile and Rail Doors: Doors shall have lites or louvers greater than one-half door height.]

- C. [Fire-Resistive Rated Doors:
1. Conform to NFPA 80 when tested for the class of door or door opening shown.
 2. [Doors in 20 Minute Fire Rating: Meet requirements of CBC Section 715 and UL 10C without hose stream test.]
 3. [Doors in 3/4 Hour or Longer Fire Rating: Meet requirements of CBC Section 715 and UL 10C.]
 4. [Doors into stairway enclosures shall have maximum transmitted temperature of 450 degrees Fahrenheit at end of 30 minutes of standard fire test exposure.]
 5. [Doors in smoke and draft control assembly shall meet requirements of UL 1784 and installed in accordance with NFPA 105.]
 6. Attach label from agency acceptable to authority having jurisdiction to identify each fire rated door.
 - a. [Indicate temperature rise for stair doors.]
 - b. [Attach smoke label to smoke and draft control doors.]

2.02 SOLID CORE FLUSH DOOR TYPES

- A. [Typical Non-Fire-Resistive Rated Door with Wood Veneer Face:]
1. Description: Meet general door requirements specified in this Section.
 - a. Core: Mat-formed particleboard meeting requirements of ANSI A208.1, Grade 1-LD-2.
 - b. Stiles: 1-3/8 inch two ply edge strips glued to core, outer ply of hardwood to match face veneer with no finger joints.
 - c. Top and Bottom Rails: Minimum 1-1/8 inch prior to factory trimming, glued to core, mill option species.
 - d. Crossbands: 1/16 inch thick hardwood veneer, engineered fiber, or composite.
 - e. Glue: Type II (water-resistant).
 - f. Faces: As indicated.
 - g. Door Thickness: 1-3/4 inches, unless otherwise indicated.
 2. Product: Algoma Hardwoods, Inc.'s "PC-5 Novodor"; Marshfield DoorSystems, Inc.'s "5-Ply Particleboard Core Door DPC-1"; Eggers Industries' "Particleboard Non-Rated (PB)"; or equal.
- B. [Fire-Resistive Door with 20 Minute Fire Rating with Wood Veneer Face:]
1. Description: Meet general door requirements specified in this Section.
 - a. Solid composition core construction similar to solid wood core doors.
 - b. Intumescent Seals for Positive Pressure Doors: Factory installed intumescent seals in door stiles.
 - c. Door Thickness: 1-3/4 inches, unless otherwise indicated.
 2. Product: Algoma Hardwoods, Inc.'s "PC-5, Novodor FD 1/3 Hour"; Marshfield DoorSystems, Inc.'s "5-Ply Particleboard Core Door DFP-20"; Eggers Industries' "Particleboard 20 Minute (PB-20)"; or equal.
- C. [Fire-Resistive Door with 3/4 Hour or Longer Fire Rating with Wood Veneer Face:]
1. Description: Meet general door requirements specified in this Section.
 - a. Core: Mineral composition.
 - b. Stiles: Special design to provide superior screw holding ability and split resistance; outer ply untreated hardwood to match face veneer with no finger joints.
 - c. Top Rail: Minimum 1/4 inch.
 - d. Bottom Rail: Minimum 1-1/16 inch.
 - e. Crossbands: 1/16 inch thick hardwood veneer, engineered fiber, or composite.
 - f. Hardware Reinforcement: Fabricate doors with core reinforcement where or surface mounted closers or fire exit devices are to be attached to door, thus eliminating thru bolts.
 - g. Intumescent Seals for Positive Pressure Doors: Factory installed intumescent seals in door stiles.

- h. Glue: Type I (waterproof) for face assembly and Type II (water-resistance) for core assembly.
 - i. Face: As indicated.
 - j. Door Thickness: 1-3/4 inches, unless otherwise indicated.
 - 2. Product: Algoma Hardwoods, Inc.'s "FD-5, Superfire Door System with Superstiles and Superfire Door Reinforcement"; Marshfield DoorSystems, Inc.'s "Fire Doors Mineral Core, DFM Series Rating with Triple-Ply Stile and No-Bolt Inner Blocking"; Eggers Industries' "Architectural Composite Core Fire Door with FireGuard Plus with Optional Hardware Blocking"; or equal.
- D. [Lead Lined Door with Wood Veneer Face:]
 - 1. Description: Meet general door requirements specified in this Section.
 - a. Lead protection shall be equal to adjacent partitions unless otherwise noted. For lead thickness up to 1/8 inch, glue lead sheets on both sides of wood core. For lead thickness of more than 1/8 inch, bolt sheet lead between a divided wood core. Stiles shall be hardwood to match face veneer. Apply crossbands and faces to both core types.
 - b. Door Thickness: 1-3/4 inches, unless otherwise indicated.
 - 2. Product: Algoma Hardwoods, Inc.'s "Algoma Grade Lead Lined Door"; Marshfield DoorSystems, Inc.'s "X-Ray Door WXR-1; Eggers Industries' "Lead-Shield Door"; or equal.
- E. [Fire-Resistive Lead Lined Flush Door with 20 Minute Fire Rating and Wood Veneer Face:]
 - 1. Description: Meet general door requirements specified in this Section.
 - a. Construct similar to lead lined doors.
 - b. Door Thickness: 1-3/4 inches, unless otherwise indicated.
 - 2. Product: Algoma Hardwoods, Inc.'s "Algoma Grade Lead Lined Door, FD 1/3 Hour"; Marshfield DoorSystems, Inc.'s "X-Ray Door WXR-20"; Eggers Industries' "Lead-Shield Door - 20 Minute Fire Door"; or equal.

2.03 STILE AND RAIL DOOR TYPES

- A. Stile and Rail Door, Non-Fire-Resistive Rated:
 - 1. Description: Meet general door requirements specified in this Section.
 - a. Design as indicated on the Drawings.
 - b. Traditional construction of solid sticking, rails coped to stile profile, doweled together and glued under pressure.
 - c. Stiles and Rails: Core of structural composite lumber with wood veneer.
 - d. Stile and Rail Dimensions: As indicated on Drawings.
 - e. Panels: 3-ply, rim banded, particle core with mitered corners.
 - f. Panels and Faces: Same wood grade and species.
 - g. Door Thickness: 1-3/4 inches, unless indicated otherwise.
 - 2. Product: Eggers Industries' "Stile and Rail Door, Non-Rated"; Marshfield Door Systems, Inc.'s "Stile and Rail Door WSR-1"; or equal.

2.04 COMPONENTS

- A. Wood Veneer Faces:
 - 1. Transparent Finish: Hardwood veneer of [rift-sawn red oak][maple, plain sawn] meeting the requirements of WDMA I.S. 1-A, Grade Description AA. Veneer shall be book-matched.
 - 2. Transparent Finish: Hardwood veneer of [] meeting the requirements of WDMA I.S. 1-A, [] Grade. Veneer shall be book-matched.
 - 3. Painted Finish: [Paint grade hardwood meeting requirements of WDMA I.S. 1-A, sound][grade][grade or medium][Medium] density overly sheet of phenolic resins and cellulose fibers.]
- B. Plastic Laminate Face:

1. Manufacturer: Formica Corp.; Wilsonart International Inc.; Nevamar Decorative Surfaces; Abet Inc.'s; or equal.
 2. Color, Pattern and Texture: As indicated on Drawings
- C. Vision Panel Frames:
1. [Fire-Resistive Rated Doors and Corridor Doors Requiring Wired Glass: One-piece metal frame of type tested in complete door assembly bearing fire-resistive label; corners neatly mitered; lapped corners not acceptable.]
 2. [Non-Fire-Resistive Rated Doors: Metal type to match fire-rated frame in profile.]
 3. [Non-Rated Doors: Hardwood solid stock to match face veneer; profiles stopped flush with door face; removable with neatly spaced screws on one face.]
 4. [Non-Fire-Resistive Rated Doors: Provide 1/2 inch thick solid-stock wood glass stops in rectilinear cross section profile with all exposed edges slightly eased unless otherwise indicated on Drawings. Furnish veneers to match door veneers. Center glass on door. Set face of stop flush with face of door. Miter frame corners. Set nail heads, glaze, and sand smooth.]
 5. [20 Minute Fire-Resistive Rated Doors:]
 - a. Description: Wood stop with profile as indicated on Drawings. Furnish veneers to match door veneers Douglas Fir stops Install in accordance with manufacturer's instructions
 - b. Product: [Marshfield DoorSystems' "Wood Lite Kits or Wood Fire-Trim System";][Eggers Industries' "20 Minute Wood Bead";]or equal.
 6. [45, 60, and 90 Minute Fire-Resistive Rated Doors:]
 - a. Description: Veneer clad composite stop. Furnish veneers to match door veneers. Install in accordance with manufacturer's instructions.
 - b. Product: [Marshfield DoorSystems' "Flush Veneer Clad Lite Bead";][Eggers Industries' "45, 60, & 90 Minute Wood Bead";]or equal.
- D. [Louvers:]
1. [Fixed Blade: One inch wide steel inverted V-blade with beveled Z-molding both sides. The Airlite Co.'s Type 685M; The Ventilouver Co. Inc.'s Model 224K; Anemostat West's Model CHDL-2F; or equal.]
 2. [Fire-Rated: Metal type tested in complete door assembly bearing fire-rated; beveled Z-molding both sides.]
 3. [Lightproof: One inch wide steel louver. Ray Proof Corp.'s Catalog No. 35C; The Airlite Co.'s Type 619M; The Ventilouver Co., Inc.'s Model 124K; or equal.]
 4. [Fixed Wood Blade:]
 - a. Description: Sight proof one piece "V" shaped hardwood blade of same species and color as wood veneer.
 - b. Product: Marshfield DoorSystems, Inc.'s "Sight-Proof V-Slat"; Eggers Industries' "No. 111 Chevron Slat"; or equal.
- E. [Edge Guards: [Stainless steel meeting requirements of ASTM A167, Type 304,][Cold rolled steel,] minimum 16 gauge.]]
- F. [Meeting Guards: [Stainless steel meeting requirements of ASTM A167, Type 304,][Cold rolled steel,] minimum 20 gauge.]
- G. [Astragals: [Stainless steel meeting requirements of ASTM A167, Type 304,][Cold rolled steel,] minimum 18 gauge.]
- H. [Primer: Provide primer compatible with paint systems specified in Section 09 91 00 - Painting.]
- I. [Transparent Finish Materials: As required by specified finish system.]

2.05 FABRICATION

- A. Manufacture doors in accordance with WDMA I.S. 1A unless otherwise noted.
- B. Preparation:
 - 1. Verify frame details; obtain reviewed hardware schedule, templates, and other information.
 - 2. Verify fire-resistive rating, size, and design of each opening.
- C. Bond stiles and rails to core material. Sand assembly to uniform thickness before applying crossbands.
- D. Hardware Reinforcing Blocking:
 - 1. Provide fire rated doors with hardware reinforcement blocking. This blocking is in addition to specified special stiles and rails.
 - 2. Size blocking as required to secure hardware specified.
 - 3. Through bolts are not permitted to permanently mount hardware on door.
 - 4. Reinforcement blocking to be in compliance with manufacturer's labeling requirements.
 - 5. If blocking is not practical provide stave lumber glued to low density lumber core or solid particle board core.
 - 6. Mineral material similar to core is not acceptable.
- E. Bevel both stile edges 1/8 inch in 2 inches.
- F. Undercut interior doors 1/4 inch from bottom of door to top of finish floor covering, unless otherwise noted.
- G. Factory fit doors for frame opening dimensions identified on shop drawings.
- H. Factory machine doors for finish hardware and security devices in accordance with hardware requirements according to templates and WDMA. Do not machine for surface hardware.
- I. Factory cut doors for [vision panels] [and] [louvers] identified on shop drawings.
- J. [Plastic Laminate Faced Doors: Crossbands are not required for plastic laminate faced doors. Apply plastic laminate to stiles. Painted stiles are not acceptable.]
- K. [Edge Guards: Run full height of door. Machine as required for hardware.]
- L. [Astragals] and Meeting Guards]: Provide as required on fire-rated pairs and double egress doors. Machine as required for hardware.]

2.06 FINISHES

- A. Door Faces and Edges:
 - 1. [Hardwood: Unfinished for finishing on site.]
 - 2. [Transparent Finish: Factory finish with a catalyzed polyurethane finish meeting the requirements of AWS System 11.]
 - 3. [Transparent Finish: Factory finish doors schedule for transparent finish.
 - a. Description: Catalyzed polyurethane finish meeting or exceeding performance requirements of AWS System 11 with additional top coats.
 - b. System: Eggers Industries' "Gardall Plus"; or equal.]
 - 4. [Paint-Grade Hardwood or Medium Density Overlay: [Unfinished for finishing on site]][Factory prime with one coat of primer and sanded ready for final finishing on site].
 - 5. [Plastic Laminate: No special finish required.]

- B. [Steel (Vision Panel Frames, Louvers, Edge Guards, Meeting Guards, Astragals): Grind welds smooth; chemically etch and apply one baked-on prime coat and one baked-on finish coat, color as selected. [Paint unexposed portions of lightproof louvers dull black.]]
- C. [Stainless Steel (Edge Guards, Meeting Guards, Astragals): Manufacturer's No. 4 finish.]

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify that opening sizes and tolerances are acceptable.
- C. Examine receiving frames and reviewed hardware schedule to verify proper coordination with doors.
- D. Replace with good material any part or item found damaged, defective, or inadequate before installation.
- E. Correct unacceptable conditions before proceeding with installation.
- F. Do not install doors in frame openings that are not plumb or are out-of-tolerance for size or alignment.

3.02 INSTALLATION

- A. Install wood doors in accordance with the final shop drawings, specified quality standard and manufacturer's data, except where more stringent requirements are specified herein.
 - 1. [Install fire rated units in accordance with CBC Section 715 and requirements for fire rating as indicated on Drawings.]
 - 2. [Install smoke and draft control assembly in accordance with NFPA 105, if necessary, provide additional gasketing or edge sealing.]
- B. Install doors at correct openings; assure smooth swing and proper closure with frame.
- C. Install wood doors plumb and square.
- D. Hang doors to obtain free swinging operation without binding, sticking, or sagging. Maintain proper clearances between door and frame.
- E. Hardware: Install in accordance with "Standards for Installation" Article of Section 08 71 00 – Door Hardware. Use machine tools to cut or drill for hardware.
- F. Factory-Finished Doors: Do not field cut or trim; if fit or clearance is not correct, replace door.
- G. Field Fitting and Trimming:
 - 1. Trim non-rated door width by cutting equally on both jamb edges.
 - 2. Trim door height by cutting bottom edges to a maximum of 3/4 inch.
 - 3. Trim fire-rated doors in strict compliance with fire rating limitations.
 - 4. Trim fire door height at bottom edge only, in accordance with fire rating requirements.
- H. [Touch up factory finishes as required ensuring complete integrity of finish system. Restore finish where fitting or machining is required.]

- I. [Install door louvers plumb and level.]

3.03 INSTALLATION TOLERANCES

- A. Conform to specified quality standard for fit and clearance tolerances.
- B. Conform to specified quality standard for maximum diagonal distortion.
- C. Maximum Diagonal Distortion (Warp): 1/8 inch measured with straight edge or taut string, corner to corner, over an imaginary 36 by 84 inches surface area.
- D. Maximum Vertical Distortion (Bow): 1/8 inch measured with straight edge or taut string, top to bottom, over an imaginary 36 by 84 inches surface area.
- E. Maximum Width Distortion (Cup): 1/8 inch measured with straight edge or taut string, edge to edge, over an imaginary 36 by 84 inches surface area.

3.04 ADJUSTING

- A. Adjust doors for smooth and balanced door movement and correct swinging, closing, and latching. Lubricate or wax hardware and moving parts as required.

3.05 DEFECTIVE WORK

- A. Factory Finished Doors: Replace and return to the factory for refinishing doors damaged prior to completion of the project.
- B. Replace, rework, or otherwise make good as required, doors or finish hardware found defective as follows:
 - 1. Items broken, damaged, disfigured, or defaced.
 - 2. Incomplete, misaligned, or incorrectly located items.
 - 3. Doors that will not hang in any position without moving when opened.
 - 4. [Where damages are in excess of repairs, which may be required by touch up process.]

END OF SECTION