

International Space Station Interior Color Scheme

International Space Station Program

REVISION C

7 February 2001

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**National Aeronautics and Space Administration
International Space Station Program
Johnson Space Center
Houston, Texas**



REVISION AND HISTORY PAGE

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PREFACE

The contents of this document are intended to be consistent with the tasks and products to be prepared by the International Space Station (ISS) participants as defined in SSP 41000. The Space Station Interior Color Scheme shall be implemented on all new United States (U.S.) element Space Station contractual and internal activities and shall be included in any existing contracts through contract changes. This document is under the control of the Space Station Control Board, and any changes or revisions will be approved by the Program Manager.

This document specifies the interior color schemes for the pressurized U.S. elements of ISS. Implementation of these requirements will assure consistent spatial orientation cues for crew members in a color environment which is psychologically acceptable. This color scheme is recommended for incorporation in other elements of the Space Station by the International Partners.

**INTERNATIONAL SPACE STATION PROGRAM
INTERNATIONAL SPACE STATION INTERIOR COLOR SCHEME**

7 FEBRUARY 2001

CONCURRENCE

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LIST OF CHANGES

7 FEBRUARY 2001

All changes to paragraphs, tables, and figures in this document are shown below:

SSCBD	ENTRY DATE	PARAGRAPH	TITLE
Editorial	2/7/01	All	
			TABLE(S)
		Not applicable	
			FIGURE(S)
002881	2/7/01	3.2.7-1	U.S. Rack hardware colors and finishes
		3.2.8-1	U.S. Restraints and Mobility Aids colors and finishes
		3.2.9-1	U.S. miscellaneous equipment colors and finishes
Editorial		All	
			APPENDIX
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1.0 INTRODUCTION

This specification establishes the requirements for the color schemes to be used in all U.S. elements of the ISS.

1.1 PURPOSE

The primary purpose of this color scheme is to ensure that the use of accent colors provides orientation and direction cues for the crew members. A secondary purpose is to designate a distinct color for each module that may be used for marking equipment for an on-board inventory management plan.

1.2 SCOPE

This specification defines the color schemes to be used inside all U.S. pressurized elements. The schemes are recommended for all habitable elements of the Space Station.

1.3 PRECEDENCE

The requirements in this document are applicable as referenced by the ISS System, Segment, Prime Item Development, and component specifications. In case of conflict between this document and any of the Space Station specifications, the requirements of the Space Station specifications take precedence.

1.4 DELEGATION OF AUTHORITY

This specification is the responsibility of the Space Station Program Office Flight Crew Support Analysis Integration Team (FCS AIT). This document is subject to Space Station Control Board change control.

1.5 WAIVER/DEVIATION

Any request for waiver or deviation from this specification shall be made to the Space Station Program Office FCS AIT.

2.0 APPLICABLE DOCUMENTS

The following applicable documents of the exact issue shown in the current issue of SSP 50257 form a part of this specification to the extent specified herein. Inclusion of applicable documents herein does not in any way supercede the order of precedence identified in 1.3. The references show where each applicable document is cited in this document.

DOCUMENT NO.	TITLE
FED-STD-595	Federal Standard Colors Used in Government Procurement
References:	Paragraph 3.1, Tables 3.2.1-1, 3.2.2-1, 3.2.3-1, 3.2.4-1, 3.2.5-1, 3.2.6-1, 3.2.7-1, 3.2.8-1, 3.2.9-1, 3.2.10-1
COLORCURVE®	Colorcurve Systems Inc., 123 North Third Street, Minneapolis, Minnesota 55401
References:	Paragraph 3.1, Tables 3.2.1-1, 3.2.2-1, 3.2.3-1, 3.2.4-1, 3.2.5-1, 3.2.6-1, 3.2.7-1, 3.2.8-1, 3.2.9-1, 3.2.10-1

2.1 REFERENCE DOCUMENTS

The following documents are referenced in this specification as a guide for context and user convenience. The references to these documents may not be listed in SSP 50257.

None

3.0 REQUIREMENTS

3.1 GENERAL

A. Space Station interior colors shall be selected from those specified in FED-STD-595, or in Colorcurve®, Colorcurve Systems, Inc., 123 North Third Street, Minneapolis, Minnesota 55401.

B. White light shall be used for color matching.

Fluorescent lighting shall have a color temperature of 5000 degrees K or greater.

Incandescent lighting shall have a color temperature of 3200 degrees K or greater.

C. The minimum CIE general color rendering index (Ra) of any light source shall be 90 +/- 10.

3.2 COLORS AND FINISHES

The colors and finishes which shall be used in the U.S. Pressurized Elements are shown in the following tables.

3.2.1 U.S. LABORATORY MODULE

The colors and finishes used in the U.S. Laboratory Module shall be as specified in Figure 3.2.1-1.

Hardware Description	Color	Finish	Specification Number
Upper Standoff Face Plates	White	Semigloss	27925 (1)
Lower Standoff Face Plates	Blue	Semigloss	25102 (1)
Forward End Cone Close-out Face Panels	Off-White	Semigloss	27722 (1)
Aft End Cone Close-out Face Panels	Light Blue	Semigloss	L70 G2 B3 (2)
End Cone Chamfer Panels (Forward and Aft)	Blue	Semigloss	25102 (1)
End Cone Tunnel Panels (Forward and Aft)	Off-White	Semigloss	27722 (1)
Hatch (Surface exposed to Aisle Way)	Clear Anodize	Semigloss	none
Note:			
(1) FED-STD-595			
(2) Colorcurve®			

FIGURE 3.2.1-1 U.S. LABORATORY MODULE COLORS AND FINISHES

3.2.2 U.S. HABITATION MODULE

The colors and finishes used in U.S. Habitation Module shall be as specified in Figure 3.2.2-1.

Hardware Description	Color	Finish	Specification Number
Upper Standoff Face Plates	White	Semigloss	27925 (1)
Lower Standoff Face Plates	Blue	Semigloss	25102 (1)
Nadir End Cone Closeout Face Panels	Off-White	Semigloss	27722 (1)
Zenith End Cone Closeout Face Panels	Tan	Semigloss	20475 (1)
End Cone Chamfer Panels (Nadir and Zenith)	Blue	Semigloss	25102 (1)
End Cone Tunnel Panels (Nadir and Zenith)	Off-White	Semigloss	27722 (1)
Hatch (Surface exposed to Aisle Way)	Clear Anodized	Semigloss	None
Note: (1) FED-STD-595 (2) Colorcurve®			

FIGURE 3.2.2-1 U.S. HABITATION MODULE COLORS AND FINISHES

3.2.3 U.S. NODE 1

The colors and finishes used in U.S. Node 1 shall be as specified in Figure 3.2.3-1.

Hardware Description	Color	Finish	Specification Number
Zenith Standoff	White	Semigloss	27925 (1)
Nadir Standoff	Blue	Semigloss	25102 (1)
Fwd. End Cone (Incl. chamfer/tunnel/face)	Off-White	Semigloss	27722 (1)
Aft End Cone (Including chamfer/tunnel/face)	Light Salmon	Semigloss	L82.5 R3 Y4 (2)
Midbay	White	Semigloss	27925 (1)
Midbay/Radial Port Wall	White	Semigloss	27925 (1)
Hatch (Surface exposed to aisle way)	Clear Anodized	Semigloss	None
Foot/Light Bridges	Light Salmon	Semigloss	L82.5 R3 Y4 (2)
Radial Port	White	Semigloss	27925 (1)
Alcove/Radial Port Wall	White	Semigloss	27925 (1)
Alcove	White	Semigloss	27925 (1)
Note: (1) FED-STD-595 (2) Colorcurve®			

FIGURE 3.2.3-1 U.S. NODE 1 COLORS AND FINISHES

3.2.4 U.S. NODE 2

The colors and finishes used in U.S. Node 2 shall be as specified in Figure 3.2.4–1.

Hardware Description	Color	Finish	Specification Number
Zenith Standoff	White	Semigloss	27925 (1)
Nadir Standoff	Blue	Semigloss	25102 (1)
Fwd. End Cone (Including chamfer/tunnel/faces)	Off-White	Semigloss	27722 (1)
Aft End Cone (Including chamfer/tunnel/face)	Medium Gray	Semigloss	26373 (1)
Midbay	White	Semigloss	27925 (1)
Midbay/Radial Port Wall	White	Semigloss	27925 (1)
Hatch (Surface exposed to aisle way)	Clear Anodized	Semigloss	None
Radial Port	White	Semigloss	27925 (1)
Alcove	White	Semigloss	27925 (1)
Alcove/Radial Port Wall	White	Semigloss	27925 (1)
Foot/Light Bridges	Medium Gray	Semigloss	26373 (1)
Note: (1) FED-STD-595 (2) Colorcurve®			

FIGURE 3.2.4–1 U.S. NODE 2 COLORS AND FINISHES

3.2.5 U.S. CUPOLA

The colors and finishes used in U.S. Cupola shall be as specified in Figure 3.2.5–1.

Hardware Description	Color	Finish	Specification Number
Cupola Closeouts	Dark Blue	Lusterless	35109 (1)
Exposed Structure (in crew volume)	Black	Lusterless	37038 (1)
Window Assemblies (Inner frames, spacers, closeouts)	Black	Lusterless	37038 (1)
Note: (1) FED-STD-595 (2) Colorcurve®			

FIGURE 3.2.5–1 U.S. CUPOLA COLORS AND FINISHES

3.2.6 PRESSURIZED MATING ADAPTER

The colors and finishes used in the PMA shall be as specified in Figure 3.2.6-1.

Hardware Description	Color	Finish	Specification Number
All exposed close-outs and structure surfaces	White	Semigloss	27925 (1)
Note:			
(1) FED-STD-595			
(2) Colorcurve®			

FIGURE 3.2.6-1 PRESSURIZED MATING ADAPTER COLORS AND FINISHES

3.2.7 U.S. RACK HARDWARE

The colors and finishes used in U.S. Rack Hardware shall be as specified in Figure 3.2.7-1.

Hardware Description	Color	Finish	Specification Number
Equipment Rack Utility Panel Recess	White	Semigloss	27925 (1)
Equipment Rack Utility Panel Text Characters	Black	Lusterless	37038 (1)
ISPR Utility Panel Recess	White	Semigloss	27925 (1)
ISPR Utility Panel Recess Text Characters	Black	Lusterless	37038 (1)
Functional Unit Utility Panel Recess (as applicable)	White	Semigloss	27925 (1)
Functional Unit Utility Panel Recess Text Characters	Black	Lusterless	37038 (1)
Rack Front Aisle Extensions	Off-White	Semigloss	27722 (1)
Overhead Rack Face Plates	Off-White	Semigloss	27722 (1)
Port Rack Face Plates	Off-White	Semigloss	27722 (1)
Starboard Rack Face Plates	Off-White	Semigloss	27722 (1)
Deck Rack Face Plates	Off-White	Semigloss	27722 (1)
Overhead Rack Utility Panel Closeouts	Off-White	Semigloss	27722 (1)
Port Rack Utility Panel Closeouts	Off-White	Semigloss	27722 (1)
Starboard Rack Utility Panel Closeouts	Off-White	Semigloss	27722 (1)
Deck Rack Utility Panel Closeouts	Off-White	Semigloss	27722 (1)
Stowage Trays	Off-White	Semigloss	27722 (1)

**FIGURE 3.2.7-1 U.S. RACK HARDWARE COLORS AND FINISHES
(PAGE 1 OF 2)**

Hardware Description	Color	Finish	Specification Number
Stowage Tray Handle Straps (any location)	Natural/Off-white material	Semigloss	none
Common Seat Track Interface	(Nickel Plate)	Semigloss	none
Note: (1) FED-STD-595 (2) Colorcurve®			

**FIGURE 3.2.7-1 U.S. RACK HARDWARE COLORS AND FINISHES
(PAGE 2 OF 2)**

3.2.8 U.S. RESTRAINTS AND MOBILITY AIDS

The colors and finishes used in U.S. Restraints and Mobility Aids shall be as specified in Figure 3.2.8-1.

Hardware Description	Color	Finish	Specification Number
IVA Handrails	Blue (Anodized)	Semigloss	25102 or equivalent (1)
IVA Handrail Standoffs	Clear (Anodized)	Semigloss	none
IVA Short Duration Foot Restraint (SDFR) Foot Plates	Blue (Anodized)	Semigloss	25102 or equivalent (1)
IVA Long Duration Foot Restraint (LDFR) Foot Plates	Blue (Anodized)	Semigloss	25102 or equivalent (1)
IVA LDFR Standoffs	Clear (Anodized)	Semigloss	none
IVA SDFR and LDFR Foot Plate Straps	Natural/Off-White material	Semigloss	none
Note: (1) FED-STD-595 (2) Colorcurve®			

FIGURE 3.2.8-1 US RESTRAINTS AND MOBILITY AIDS COLORS AND FINISHES

3.2.9 U.S. MISCELLANEOUS EQUIPMENT

The colors and finishes used in U.S. Miscellaneous Equipment shall be as specified in Figure 3.2.9-1.

Hardware Description	Color	Finish	Specification Number
Audio Terminal Unit	Off-White	Semigloss	27925 (1)
Audio Terminal Unit Text Characters	Black	Lusterless	37038 (1)
Mounted Video Camera Components	White	Semigloss	27925 (1)
Mounted Video Camera Components Text Characters	Black	Lusterless	37038 (1)
Module and Hatch Window Assemblies (Inner frames, spacers, and closeouts)	Black	Lusterless	37038 (1)
Note:			
(1) FED-STD-595			
(2) Colorcurve®			

FIGURE 3.2.9-1 U.S. MISCELLANEOUS EQUIPMENT COLORS AND FINISHES

3.2.10 U.S. AIRLOCK

The colors and finishes used in U.S. Airlock shall be as specified in Figure 3.2.10-1.

Hardware Description	Color	Finish	Specification Number
Upper Standoff Face Plates	White	Semigloss	27925 (1)
Lower Standoff Face Plates	Blue	Semigloss	25102 (1)
Starboard End Cone Panels	Off-White	Semigloss	27722 (1)
Port End Cone Panels	Light Blue	Semigloss	L70 G2 B3 (2)
Overhead Platform	Off-White	Semigloss	27722 (1)
Deck Platform	Off-White	Semigloss	27722 (1)
Hatch (Surface exposed to Aisle Way)	Clear Anodized	Semigloss	none
Crew Lock	White	Semigloss	27925 (1)
Note:			
(1) FED-STD-595			
(2) Colorcurve®			

FIGURE 3.2.10-1 U.S. AIRLOCK COLORS AND FINISHES

4.0 QUALITY ASSURANCE PROVISIONS

All hardware colors and finishes shall be visually inspected to assure compliance with the requirements of this specification.

APPENDIX A ABBREVIATIONS AND ACRONYMS**A.1 ABBREVIATIONS AND ACRONYMS**

AIT	Analysis Integration Team
CIE	Commission Internationale De L'Eclairage
FCS	Flight Crew Support
ISS	International Space Station
K	Kelvin
Ra	
U.S.	United States