## **BUREAU OF INDIAN STANDARDS**

## Program of Work

## **CED 11: Doors, Windows And Shutter**

Scope: STANDARDIZATION IN THE FIELD OF DOORS, WINDOWS, VENTILATORS, GATES

AND SHUTTERS MADE OF ANY MATERIAL

Liaison: **ISO TC-162 (P):** *Doors, windows and curtain walling* 

## **Published Standards**

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 1003 (Part 1):	Timber Panelled and Glazed	August, 2023	2	•
	2003	Shutters: Part 1 Door shutters -			
	Reviewed In: 2023				
	Decision taken to				
	Reaffirm and				
	Archive				
2	IS 1003 (Part 2):	Timber Panelled And Glazed	January, 2022	3	
	1994	Shutters: Part 2 Windows and			
	Reviewed In: 2022	Ventilator Shutters			
3	IS 1038 : 1983	Specification For Steel Doors,	January, 2022	3	
	Reviewed In: 2022	Windows And Ventilators			
4	IS 10428 : 2022	Windows and Pedestrian Doors		-	Identical under dual
	ISO 22496: 2021	Vocabulary			numbering
	ISO 22496: 2021				
5	IS 10451 : 1983	Specification for steel sliding	January, 2022	1	Indigenous
	Reviewed In: 2022	shutters (Top Hung Type)			
6	IS 10521 : 1983	Specification for collapsible gates	January, 2022	1	Indigenous
	Reviewed In: 2022				
7	IS 1081 : 1960	Code of practice for fixing and	January, 2022	1	Indigenous
	Reviewed In: 2022	glazing of metal (Steel And			
		Aluminium) doors, windows and			
		ventilators			
8	IS 1361 : 1978	Specification for Steel Windows	January, 2022	2	
	Reviewed In: 2022	for Industrial Buildings			
9	IS 14856 : 2000	Glass fibre reinforced plastic	January, 2022	1	Indigenous
	Reviewed In: 2022	(GRP) panel type door shutters for			
		internal use - Specification			
10	IS 15380 : 2003	Moulded Raised High Density	August, 2018	1	
	Reviewed In: 2018	Fibre (HDF) Panel Doors -			
11	IS 15380 : 2023	MOULDED HIGH DENSITY		-	
		FIBRE HDF PANELLED DOOR			
		SHUTTERS - SPECIFICATION (			
		First Revision)			
12	IS 15931 : 2012	Solid Panel Foam UPVC Door	July, 2022	-	
	Reviewed In: 2022	Shutters - Specification			
13	IS 16073 : 2013	Bamboo-Jute Composite Panel		-	
		Door Shutter - Specification			
	Reaffirmed but not				
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	taken up for revision				
14	IS 16074 : 2013 Reviewed In : 2023	Steel flush door shutters - Specification	August, 2023	-	Indigenous
15	IS 16074 : 2024	Steel Flush Door Shutters â€"  Specification (First Revision)		-	Indigenous
16	IS 16096 : 2013	Bamboo - Jute composite hollow core door shutter - Specification		-	Indigenous
	Reaffirmed but not taken up for revision	-			
17	IS 17909 : 2022	Windows and Doors Resistance to		-	Identical under dual
	ISO 8274: 2005	Repeated Opening and Closing			numbering
	ISO 8274: 2005	Test method			
18	IS 17910 (Part 1):	Thermal Performance of Windows		-	Identical under dual
	2022	and Doors Determination of Thermal Transmittance by The Hot-			numbering
	ISO 12567-1: 2010				
	130 12307-1, 2010	Windows and Doors			
19	IS 17910 (Part 2):	Thermal Performance of Windows			Identical under dual
	2022	and Doors Determination of			numbering
	ISO 12567-2: 2005	Thermal Transmittance by The Hot-			
	ISO 12567-2: 2005	Box Method Part 2: Roof Windows			
		and Other Projecting Windows			
20	IS 17911 : 2022	Thermal performance of Windows		-	Identical under dual
	ISO 15099: 2003	Doors and Shading Devices			numbering
21	ISO 15099: 2003 IS 17920 : 2022	Detailed Calculations Thermal performance of Windows			Identical under dual
21	ISO 10077-2: 2017	Doors and Shutters Calculation of		<del>-</del>	numbering
	ISO 10077 2: 2017	Thermal Transmittance -			numbering
	150 100// 2.201/	Numerical Method for Frames			
22	IS 17953 : 2023	uPVC Profiles for Windows And		-	Indigenous
		Doors Specification			
23	IS 18268 : 2023	Operating Forces - Method of Test		-	Identical under dual
	ISO 9379:2005	- Doors			numbering
24	ISO 9379:2005	Field Marson and of Air			T., 4'
24	IS 18434 : 2023	Field Measurement of Air Permeability and Water		-	Indigenous
		Penetration Through Installed			
		Curtain Wall Windows Doors			
		Sliders And Skylights Under Static			
		Air Pressure Difference Method of			
		Test			
25	IS 18459 : 2024	Water Penetration of Curtain Walls		-	Indigenous
		Windows Sliders Doors and			
		Skylights by Uniform Static Air Pressure Difference Method of			
		Test			
26	IS 18472 : 2024	Air Permeability for Curtain Walls			Indigenous
	ISO 6613:1980	Windows Sliders Doors and			
L		Skylights Method of Test			<u> </u>
27	IS 18473 : 2024	Wind Resistance for Curtain Walls		-	Indigenous
	ISO 6612:1980	Windows Sliders Doors and			
	***************************************	Skylights Method of Test			
28	IS 18647 : 2024	Water Penetration of Curtain		-	Indigenous
		Walls, Windows, Sliders and Doors			
		by Dynamic Air Pressure - Method of Test			
29	IS 18648 : 2024	Classification and Performance		<del>-</del>	Indigenous
~	1001012027	2-month and 1 off of manee	l		Indigonous

Section   Sect			Requirements for Doors Windows			
ISO 8248: 1985   Windows Mechanical Tests   Sign 8248: 1985   Sign 8248: 1985   Aluminium Framed Doors, Windows and Stides 64" Specification (First Revision)   Wooden Flush Door Stutters   1 Indigenous   1 Indigeno	20	IG 1000 ( 2022	and Sliders - Specification			X1 .: 1 1 1 1
SIS 9248: 1985	30		_		-	
15   1948; 2024   Aluminium Framed Doors, Windows and Studens & Specification (Fink Revision)   1   Indigenous   1   Indigenous   2022   2022   2022   2022   2023   2024   2025   2024   2025   2026   202			Windows Mechanical Tests			numbering
Second Part   Price	21		A1 E . ID			T 1'
Specification (First Revision)	31	IS 1948 : 2024	i i		-	Indigenous
1						
Cellular, Hollow and Tubular Cor Type) - Specification Part I   Pywood Face Panels (Fifth Revision)	22	IC 0101 (D + 1)			1	T 1'
Type  — Specification Part   Plywood Face Panels (Fifth Revision)   Total   Plywood Face Panels (Fifth Revision)	32	` ′				Indigenous
Plywood Face Panels (Fifth Revision )		2022	`			
Revision     Revision						
33   IS 2191 (Part 2);   WOODEN FLUSH DOOR   SHUTTERS (CELIULAR, HOLLOW AND TUBULAR CORE TYPE) - SPECIFICATION PART 2 PARTICLE BOARD. HIGH DENSITY FIBRE BOARD, MEDIUM DENSITY FIBRE BOARD AND FIBRE HARDBOARD FACE PANELS (Fourth Revision)   1			1			
2022   SHUTTERS (CELLULAR HOLLOW AND TUBULAR CORE TYPE) - SPECIFICATION PART 2 PARTICLE BOARD, HIGH DENSITY FIBRE BOARD, MEDIUM DENSITY FIBRE BOARD AND FIBRE HARDBOARD FACE PANELS (Flourth Revision)   1		IC 2101 (D + 2)			1	T 1:
HOLLOW AND TUBILIAR CORE TYPE) - SPECIFICATION PART 2 PARTICLE BOARD, HIGH DENSITY FIBRE BOARD MEDIUM DENSITY FIBRE BOARD MEDIUM DENSITY FIBRE BOARD AND FIBRE HARDBOARD FACE PANELS (Fourth Revision)   34	33	` ′				Indigenous
CORE TYPE) - SPECIFICATION   PART 2 PARTICLE BOARD,   HIGH DENSITY FIBRE BOARD,   MEDIUM DENSITY FIBRE BOARD AND FIBRE   HARDBOARD FACE PANELS   (Fourth Revision)		2022	· ·			
PART 2 PARTICLE BOARD, HIGH DENSITY FIBRE BOARD, HIGH DENSITY FIBRE BOARD AND FIBRE HARDBOARD FACE PANELS (Fourth Revision)						
HIGH DENSITY FIBRE BOARD   MEDIUM DENSITY FIBRE BOARD AND FIBRE HARDBOARD FACE PANELS (Fourth Revision)			II III			
MEDIUM DENSITY FIBRE   BOARD AND FIBRE   HARDBOARD FACE PANELS (Fourth Revision)			l ·			
BOARD AND FIBRE   HARDBOARD FACE PANELS (Fourth Revision)			1			
HARDBOARD FACE PANELS (Fourth Revision)   Wooden Flush Door Shutters (Solid Core Type) — Specification Part I Plywood Face Panels (Solid Core Type) — Specification Part I Plywood Face Panels (Solid Core Type) — Specification Part I Plywood Face Panels (Solid Core Type) — Specification Part I Plywood Face Panels (Solid Core Type) — Specification Part 2 Particle Board, High Density Fibre Board Amedium Density Fibre Board Board Amedium Density Fibre Board Board Amedium Density Fibre Board Board Board Amedium Density Fibre Board Board Board Board Board Board						
Second Revision   Second Rev						
18   2202 (Part 1):   2023   Solid Core Type) — Specification   Part 1 Plywood Face Panels (Solid Core Type) — Specification   Part 1 Plywood Face Panels (Solid Core Type) — Specification   Part 1 Plywood Face Panels (Solid Core Type) — Specification   Part 1 Plywood Face Panels (Solid Core Type) — Specification   Part 2 Plywood Face Panels (Solid Core Type) — Specification   Part 2 Plywood Face Panels (Fourth Revision )   Plywood Face Panels (Fourth Revision )   Part 2 Plywood Face Panels (Fourth Revis						
Solid Core Type) — Specification   Part 1 Plywood Face Panels (   Seventh Revision )			` ′			
Part 1 Plywood Face Panels (  Seventh Revision   Seventh Revision   Seventh Revision   Part 2 Particle Board, High Density Fibre Board and Fibre Hardboard Face Panels (  Fourth Revision   Part 2 Particle Board, High Density Fibre Board and Fibre Hardboard Face Panels (  Fourth Revision   Fourth Revision   Part 2 Particle Board and Fibre Hardboard Face Panels (  Fourth Revision   Part 2 Particle Board and Fibre Hardboard Face Panels (  Fourth Revision   Part 2 Particle Board and Fibre Hardboard Face Panels (  Fourth Revision	34	, , , , ,			1	Indigenous
Seventh Revision   Seventh Rev		2023	* * * * * * * * * * * * * * * * * * * *			
1			I - I			
Solid Core Type) — Specification   Part 2 Particle Board, High Density Fibre Board, Medium Density Fibre Board and Fibre Hardboard Face   Panels (Fourth Revision)						
Part 2 Particle Board, High Density Fibre Board, Medium Density Fibre Board and Fibre Hardboard Face Panels ( Fourth Revision )	35				1	Indigenous
Fibre Board, Medium Density Fibre Board and Fibre Hardboard Face Panels (Fourth Revision )   Door Shutters - Methods of Tests   August, 2018   1   Not Equivalent		2022				
Board and Fibre Hardboard Face Panels (Fourth Revision)						
Panels (Fourth Revision )   Door Shutters - Methods of Tests   August, 2018   1   Not Equivalent						
Second Reviewed In 2018   1						
1998						
Reviewed In : 2018   ISO 8270: 1985   Door shutters - Methods of tests   1998   (Third Revision)   Reviewed In : 2023   ISO 8270: 1985, 6444: 2005, 6442: 2005, 8270: 1985   Timber door, window and Reviewed In : 2022   Reviewed In : 2022   Reviewed In : 2022   Property   Pr	36	` /	Door Shutters - Methods of Tests	August, 2018	1	Not Equivalent
ISO 8270: 1985   Door shutters - Methods of tests						
15 4020 (Part 116): 1998   Reviewed In : 2023   SO 8270: 1985, 6444: 2005, 6442: 2005, 8270: 1985   Reviewed In : 2022   2005, 8270: 1985   Timber door, window and ventilator frames - specification   January, 2022   January, 2022   Reviewed In : 2022   Recommendations for Symbolic Designation of Direction of Closing and Faces of Doors, Windows and Shutters   Steel Frames for Doors - Specification (Third Revision)   Steel Door Frames - Specification (August, 2023   Indigenous   Indigenous   Steel Door Frames - Specification (August, 2023   Indigenous   Indigenous   Second Revision						
1998   Reviewed In : 2023   ISO 8270: 1985, 6444: 2005, 6442: 2005, 8270: 1985   Reviewed In : 2022   Timber door, window and Reviewed In : 2022   Provided In : 2022   Reviewed In : 2022   Provided In : 2022   Reviewed In : 2022   Provided In : 2024   Steel Frames for Doors - Specification (Third Revision)   Provided In : 2023   Provided In : 2024   Provided In : 2025   Provided In : 2025   Provided In : 2026   Provided In : 2026   Provided In : 2027   Provided In : 2028   Provided In : 2029   Provided In : 2029   Provided In : 2020   Provided In : 2020   Provided In : 2022   Provided In						
Reviewed In : 2023   ISO 8270: 1985, 6444: 2005, 6442: 2005, 8270: 1985	37	` ′		August, 2023	2	Not Equivalent
ISO 8270: 1985, 6444: 2005, 6442: 2005, 8270: 1985			(Third Revision)			
6444: 2005, 6442: 2005, 8270: 1985						
2005, 8270: 1985  38						
Second Reviewed In : 2022   Timber door, window and ventilator frames - specification   January, 2022   Steel Frames for Doors - Specification (Third Revision)						
Reviewed In: 2022 ventilator frames - specification  39				Y 2022	1	<del>-</del>
Second Reviewed In : 2022   Reviewed In : 2022   Posignation of Direction of Closing and Faces of Doors, Windows and Shutters	38		· ·	January, 2022	3	Indigenous
Reviewed In: 2022 Designation of Direction of Closing and Faces of Doors, Windows and Shutters  40 IS 4351: 2024 Steel Frames for Doors - Specification (Third Revision)  41 IS 4351: 2003 Steel Door Frames -Specification (August, 2023 Indigenous Second Revision)  42 IS 4913: 1968 Reviewed In: 2022 Installation and Maintenance of Timber Doors and Windows  43 IS 6198: 1992 Ledged, braced and battened Reviewed In: 2022 timber door shutters - specification Indigenous Indige	20			I 2022	+	
Closing and Faces of Doors, Windows and Shutters  40 IS 4351 : 2024 Steel Frames for Doors - Specification (Third Revision)  41 IS 4351 : 2003 Steel Door Frames -Specification ( Reviewed In : 2023 Second Revision)  42 IS 4913 : 1968 Code of Practice for Selection, Reviewed In : 2022 Installation and Maintenance of Timber Doors and Windows  43 IS 6198 : 1992 Ledged, braced and battened Reviewed In : 2022 timber door shutters - specification	39		I	January, 2022	-	
Windows and Shutters  40 IS 4351: 2024 Steel Frames for Doors - Specification (Third Revision)  41 IS 4351: 2003 Steel Door Frames -Specification ( Reviewed In: 2023 Second Revision)  42 IS 4913: 1968 Code of Practice for Selection, Reviewed In: 2022 Installation and Maintenance of Timber Doors and Windows  43 IS 6198: 1992 Ledged, braced and battened Reviewed In: 2022 timber door shutters - specification		keviewed in: 2022	_			
40 IS 4351 : 2024 Steel Frames for Doors - Specification (Third Revision)  41 IS 4351 : 2003 Steel Door Frames -Specification ( Reviewed In : 2023 Second Revision)  42 IS 4913 : 1968 Code of Practice for Selection, Reviewed In : 2022 Installation and Maintenance of Timber Doors and Windows  43 IS 6198 : 1992 Ledged, braced and battened Reviewed In : 2022 timber door shutters - specification  44 Is 6198 : 1992 Ledged, braced and battened Reviewed In : 2022 timber door shutters - specification						
Specification (Third Revision)  41 IS 4351: 2003 Steel Door Frames -Specification ( Reviewed In: 2023 Second Revision)  42 IS 4913: 1968 Code of Practice for Selection, Reviewed In: 2022 Installation and Maintenance of Timber Doors and Windows  43 IS 6198: 1992 Ledged, braced and battened Reviewed In: 2022 timber door shutters - specification	40	IC 4251 - 2024				In diameter
41 IS 4351 : 2003 Steel Door Frames -Specification ( Reviewed In : 2023 Second Revision)  42 IS 4913 : 1968 Code of Practice for Selection, Reviewed In : 2022 Installation and Maintenance of Timber Doors and Windows  43 IS 6198 : 1992 Ledged, braced and battened Reviewed In : 2022 timber door shutters - specification	40	15 4551 : 2024			-	indigenous
Reviewed In: 2023 Second Revision)  42 IS 4913: 1968 Code of Practice for Selection, Reviewed In: 2022 Installation and Maintenance of Timber Doors and Windows  43 IS 6198: 1992 Ledged, braced and battened Reviewed In: 2022 timber door shutters - specification	A 1	IC 4251 . 2002		August 2022	1	Indiana
42 IS 4913 : 1968 Code of Practice for Selection, Installation and Maintenance of Timber Doors and Windows  43 IS 6198 : 1992 Ledged, braced and battened Reviewed In : 2022 timber door shutters - specification  44 IS 6198 : 1992 Ledged, braced and battened timber door shutters - specification	41		1	August, 2023		margenous
Reviewed In : 2022 Installation and Maintenance of Timber Doors and Windows  43 IS 6198 : 1992 Ledged, braced and battened Reviewed In : 2022 timber door shutters - specification	42		,	January 2000	+	
Timber Doors and Windows  43 IS 6198: 1992 Ledged, braced and battened Reviewed In: 2022 timber door shutters - specification	42			January, 2022	-	
43 IS 6198 : 1992 Ledged, braced and battened Reviewed In : 2022 Ledged, braced and battened timber door shutters - specification		keviewed in: 2022				
Reviewed In: 2022 timber door shutters - specification	42	IC 6100 : 1002		January 2022	1 2	Indiana-
	43		_	January, 2022	2	indigenous
1 15 0246: 1979   Specification for metal rolling   January, 2022   1 Indigenous	11			January 2022	1	Indiana
	44	13 0248 : 1979	Specification for metal rolling	January, 2022	1	margenous

	Reviewed In: 2022	shutters and rolling grills (First Revision)			
45	IS 7452 : 1990	Hot Rolled Steel Sections for	December, 2022	-	Indigenous
	Reviewed In: 2022	Doors, Windows and Ventilators -			
		Specification (Second Revision)			

## **Standards under Development**

	Projects Approved					
SI. No.	SI. No. Doc No. Title					
No Records Found						

	Preliminary Draft Standards					
SI. No.	SI. No. Doc No. Title					
No Records Found						

	Drafts Standards in WC Stage					
SI. No.	Doc No.	Title				
1	CED 11 (26382) Revision	Specification For Steel Section - Windows and Ventilators Fourth Revision of IS 1038				
	of: IS 1038:1983					
2	CED 11 (26383) Revision	Metal Rolling Shutters and Rolling Grills - Specification Second Revision of IS 6248				
	of: IS 6248:1979					
3	CED 11 (26384)	Steel Door Frame Set Specification				
4	CED 11 (26385)	uPVC Profiles Framed Doors Windows and sliders Specification				

	Draft Standards Completed WC Stage				
SI. No.	SI. No. Doc No. Title				
No Records Found					

	Finalized Draft Indian Standard					
SI. No.	SI. No. Doc No. Title					
	No Records Found					

Finalized Draft Indian Standards under Print					
SI. No.	SI. No. Doc No. Title				
No Records Found					

#### Total Published Standards:34 Total Standards Under development:4

## **Aspect Wise Report**

Product: 24
Code of Practices: 2
Methods of Test: 14
Terminology: 1
Dimensions: 0
System Standard: 0
Safety Standard: 0

Others: 1 Service Specification: 0 Process Specification: 0

#### Unclassified: 0

# Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 13027 (Part 1): 1990	Methods of test for door leaves Part 1 Measurement of dimensions and defects of squareness
2	IS 13027 (Part 2): 1991	Door leaves - methods of test Part 2 Measurement of defects of general flatness
3	IS 13034 : 1990	Methods of test for timber panelled and glazed door shutters - type tests
4	IS 1826 : 1961	Venetian Blinds for Windows
5	IS 1949 : 1961 Reviewed In : 2022	Specification for aluminium windows for industrial buildings
6	IS 4962 : 1968 Reviewed In : 2011	wooden side sliding doors

## **Annexure-II :List of Indian Product Standards**

SI. No.	IS No. & Year	Title
1	IS 1003 (Part 1): 2003	Timber Panelled and Glazed Shutters Part 1 Door shutters -
	Reviewed In: 2023	
	Decision taken to Reaffirm	
	and Archive	
2	IS 1003 (Part 2): 1994	Timber Panelled And Glazed Shutters Part 2 Windows and Ventilator Shutters
	Reviewed In: 2022	
3	IS 1038 : 1983	Specification For Steel Doors Windows And Ventilators
	Reviewed In: 2022	
4	IS 10451 : 1983	Specification for steel sliding shutters Top Hung Type
	Reviewed In: 2022	
5	IS 10521 : 1983	Specification for collapsible gates
	Reviewed In: 2022	
6	IS 1361 : 1978	Specification for Steel Windows for Industrial Buildings
	Reviewed In: 2022	
7	IS 14856 : 2000	Glass fibre reinforced plastic GRP panel type door shutters for internal use - Specification
	Reviewed In: 2022	
8	IS 15380 : 2023	MOULDED HIGH DENSITY FIBRE HDF PANELLED DOOR SHUTTERS -
		SPECIFICATION First Revision
9	IS 15931 : 2012	Solid Panel Foam UPVC Door Shutters - Specification
	Reviewed In: 2022	
10	IS 16073 : 2013	Bamboo-Jute Composite Panel Door Shutter - Specification
	Reaffirmed but not taken up	
	for revision	
11	IS 16074 : 2024	Steel Flush Door Shutters Specification First Revision
12	IS 16096 : 2013	Bamboo - Jute composite hollow core door shutter - Specification
	Reaffirmed but not taken up for revision	
13	IS 17953 : 2023	uPVC Profiles for Windows And Doors Specification
14	IS 18648 : 2024	Classification and Performance Requirements for Doors Windows and Sliders - Specification
15	IS 1948 : 2024	Aluminium Framed Doors Windows and Sliders Specification First Revision
16	IS 2191 (Part 1): 2022	Wooden Flush Door Shutters Cellular Hollow and Tubular Core Type Specification Part 1

<u>-</u>		
	IEC TS 62257-8-1:2018	Plywood Face Panels Fifth Revision
17	IS 2191 (Part 2): 2022	WOODEN FLUSH DOOR SHUTTERS CELLULAR HOLLOW AND TUBULAR CORE TYPE
		- SPECIFICATION PART 2 PARTICLE BOARD HIGH DENSITY FIBRE BOARD MEDIUM
		DENSITY FIBRE BOARD AND FIBRE HARDBOARD FACE PANELS Fourth Revision
18	IS 2202 (Part 1): 2023	Wooden Flush Door Shutters Solid Core Type Specification Part 1 Plywood Face Panels Seventh
	ISO 16610-62 : 2023	Revision
19	IS 2202 (Part 2): 2022	Wooden Flush Door Shutters Solid Core Type Specification Part 2 Particle Board High Density
	IEC PAS 62257-10:2017	Fibre Board Medium Density Fibre Board and Fibre Hardboard Face Panels Fourth Revision
20	IS 4021 : 1995	Timber door window and ventilator frames - specification
	Reviewed In: 2022	
21	IS 4351 : 2024	Steel Frames for Doors - Specification Third Revision
22	IS 6198 : 1992	Ledged braced and battened timber door shutters - specification
	Reviewed In: 2022	
23	IS 6248 : 1979	Specification for metal rolling shutters and rolling grills First Revision
	Reviewed In: 2022	
24	IS 7452 : 1990	Hot Rolled Steel Sections for Doors Windows and Ventilators - Specification Second Revision
	Reviewed In: 2022	