## **FORM Q-108**

## RECOMMENDED FORM FOR QUALIFYING THE VESSEL DESIGN AND THE PROCEDURE SPECIFICATION USED IN FABRICATING CONTACT-MOLDED, FIBER-REINFORCED PLASTIC PRESSURE VESSELS (CLASS I)

(Revision C — 2017)

			•	elow requires a new Pro	ocedure Specification.)				
l.	·								
II.	I. Vessel or Vessel Part Identification(Use separate sheet for each separate part or component								
III.	Materials for Vessel/Vessel Part or Secondary Overlay								
	Reinforcements			*Manufacturer	*Manufacturing No.				
	1. Material No. 1								
	2. Material No. 2								
	3. Material No. 3 4. Material No. 4								
					Manufacturia - Na				
	Resin System *1. Resin	<u>Material</u>	Туре	<u>Manufacturer</u>	Manufacturing No.				
	* 1. Kesin *2. Catalyst								
	*3. Promoter								
IV.	Laminate Construct	Laminate Construction for Vessel or Vessel Part (Use separate sheet for each part)							
	*Total Number of P	lies		Total	Thickness				
	*Ply Sequence and	*Ply Sequence and Orientation (Ply No. 1 next to process)							
	Ply No. Fiber Material No.		lo. <u>Fi</u>	ber Orientation	Reference Axis				
			(Use additional shee	ts if necessary)	-				
	*Cure Method *Post Cure °F (°C) hr								
	*Design Barcol Har	dness	+/						
	*Design Fiber by Weight %								
V.	Assembly of Vessel Parts								
	Bond to Join Vessel Part A to Vessel Part B								
	(Use separate sheet for each Joint)								
	*Method of Surface Preparation for Secondary Overlay								
	*Distance of S.P. From Mating Joint: Part A in. Part B in.								
	Overlay Construction — Interior Surface (if applicable)								
	*Number of Plies _	*Number of Plies Thickness *Overlay Length							

## FORM Q-108 (CONT'D) (Revision C — 2017)

Ply No.	Fiber Material No.		Fiber Orientation	_	Reference Axis		
	(Us	e additional sh	eets if necessary)				
*Cure Method		*Post Cu	re	°F (°C)	hr		
*Design Barcol Har	dness	+/					
*Design Fiber by W	/eight % +,	/	%				
	on — Exterior Surface						
		*C	)verlay Length				
*Number of Plies Thickness *Overlay Length  *Ply Sequence and Orientation (Ply No. 1 next to joined parts)							
*Ply Sequence and							
Ply No.	Fiber Material No.		Fiber Orientation	<u> </u>	Reference Axis		
(Use additional sheets if necessary)							
*Cure Method	*Post Cu	*Post Cure °F (°C)		hr			
*Design Barcol Har	dness						
_	/eight % +,						
	reignt — /o +/		/0				
C							
Summary							
	<u>brication</u>						
	brication Part Identification			Procedure	Specification		
Component/Part Fa				Procedure	Specification		
<u>1</u>	Part Identification			Procedure	Specification		
Component/Part Fa	Part Identification			Procedure	Specification		

## FORM Q-108 (CONT'D) (Revision C — 2017)

Com	ponent/Part Assembly								
No.	Part A	<u>To</u>	Part B	Procedure Specification No.					
<u>1</u>									
2									
<u>3</u> <u>4</u>									
<u>5</u>									
<u>6</u>									
	*Vessel Volumeric Expans	sion		in. <sup>3</sup> (mm <sup>3</sup> )					
	*Vessel Weight								
	Qualification								
	Vessel(s) Serial Number(s)								
	Design Report Number	Design Report Number							
	Test Report Number								
	ASME Section X								
		Edition and Addenda	ı (if applicable) Date	Code Case No.					
	We certify that the statements made in this Specification are correct.								
	Date Signed								
	(Fabricator) By								
	Certificate of Authorizatio	n No		Expires					
			ION BY SHOP INSPECTO						
	(	OF QUALIFICATION OF D							
for				of fabricating vessel(s) described in					
_	(User) Design Specification and (Fabricator)								
De	sign Report number								
ı	e undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors								
and	d employed by of have spected the components described in Part I of the Procedure Specification and have examined the Quality								
				y knowledge and belief, the Fabricator					
ı		_		Specification and the requirements of					
Sed	ction X of the ASME BOIL	ER AND PRESSURE VES	SEL CODE, Fiber-Reinfo	rced Plastic Pressure Vessels.					
		•		any warranty, expressed or implied,					
				Furthermore, neither the Inspector nor					
		mployer shall be liable in any manner for any personal injury or property damage or loss of any kind arising or connected with this inspection.							
	te								
				al Board Authorized Inspector Number)					
_	Α)	Authorized Inspector's Signature	)						