FORM Q-115

RECOMMENDED FORM FOR QUALIFYING THE DESIGN AND THE PROCEDURE SPECIFICATION USED IN ADHESIVE BONDING OF PARTS OF FIBER-REINFORCED PLASTIC PRESSURE VESSELS (CLASS I) (Revision C — 2017)

Procedure Spec	cification Num	nber							
A change	e in any of the	e essential variab	les denoted by a	n asterisk beld	ow require	es a new Proce	dure Specific	ation.	
*Adhesive		(Manufacturer	(Manufacturer and Designation)						
*Curing Agent			(Type, Manufactu	rer, and Designati	on)				
*Preparation of	f Surfaces		(Machining, Gri	nding, Degreasing	g)				
*Application of Adhesive			(Dip)		(Brush)				
*Cure		(Time)				(Temperatui	re)		
Laminate Used in Test (a) From Cylindrical Shell: Outsid		Outside Diameter		Wall Thickness					
Length of L	.ap [†] <i>L</i>		Fiber Content _		C	Other Informati	on		
(b) From Fabric	ated Flat Lam	inate: Thickness			Fiber	Content			
Length of Lap [†] L			Other Information						
		per Fig. Q-115.1. ON SPECIMEN OI	F BONDED JOINT	DIMENSIONE	ED SAME A	AS TYPE 1 SPE	CIMEN OF AS	STM D 638	
U.S. Customary Units				SI Units					
Thickness of Wall, in.	Reduc Width,		Overall Length, in.	Thick of Wal		Reduced Width, mm	Width Grip, mm	Overall Length, mm	
$\frac{1}{4}$ or under Over $\frac{1}{4}$ to $\frac{1}{2}$, inc Over $\frac{1}{2}$ to 1, incl.		$\frac{\frac{3}{4}}{1\frac{1}{8}}$	8.5 9.7 12	6 or less Over 6 to 0 Over 13 to	,	13 19 25	19 28 38	216 246 305	
CONDITION OF	SPECIMEN	Specimen sh	all be wiped dry; r	o other condition	oning is req	uired.			
			RECORD OF SPE	ECIMENS TES	TED				
	Specimen No.	Thickness	Reduced Width	Length of Bond Overlap	Area of Bond	Total Load, Ib	Shear Stress		
	1					_			
	2								
	3								

FORM Q-115 (CONT'D) (Revision C — 2017)

Qualification of Vessel With Bonde	d Joints					
Vessel(s) Serial Number(s)						
Design Report Number						
Test Report Number						
	dition and Addenda (if applicable) Datel					
IEC	iition and Addenda (ii applicable) Datej	(Code Case Number)				
We certify that the statements ma	ade in this Specification are correct:					
Date	Signed					
		(Fabricator)				
	Ву					
Certificate of Authorization Numbe	r	Expires				
C	CERTIFICATION BY SHOP INS DF QUALIFICATION OF ADHESIVE-BONI					
Procedure Specification of	at					
for	process of fabricating vessel(s) described in					
(User)	Design Specification and	(Fabricator)				
	Design Report Number					
	lid commission issued by the Nationa	I Board of Boiler and Pressure Vessel Inspectors				
of	have g procedure have been qualified and st s) and the adhesive-bonding procedure	witnessed the tests by which the design of the tate that, to the best of my knowledge and belief, employed in constructing the vessel(s) satisfy the L CODE, Fiber-Reinforced Plastic Pressure Vessels.				
design or procedure covered by t	the Fabricator's Design Report. Furtherr	ny warranty, expressed or implied, concerning the more, neither the Inspector nor his employer shall oss of any kind arising from or connected with this				
Date	Commission					
		(National Board Authorized Inspector Number)				
(Aut	thorized Inspector's Signature)					