

**Rating Office**

**Offshore  
Racing  
Congress**



**Certificate**

Number **001306**  
Issued On **11/07/2019**  
ORC Ref **GRE01016079**  
VPP Ver. **2019 1.01**  
Valid until **28/02/2020**

**Crew Weight**

Default 935kg  
Maximum **935kg**  
Minimum\* **701kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>610.8</b>	<b>0.9823</b>
Non Spin OSN	<b>592.7</b>	<b>1.0123</b>

**Sails Limitations**

Headsails **6** Spinnakers **4**

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 134.67**  
Flying H/S: **No**  
Spin. Pole: **No**

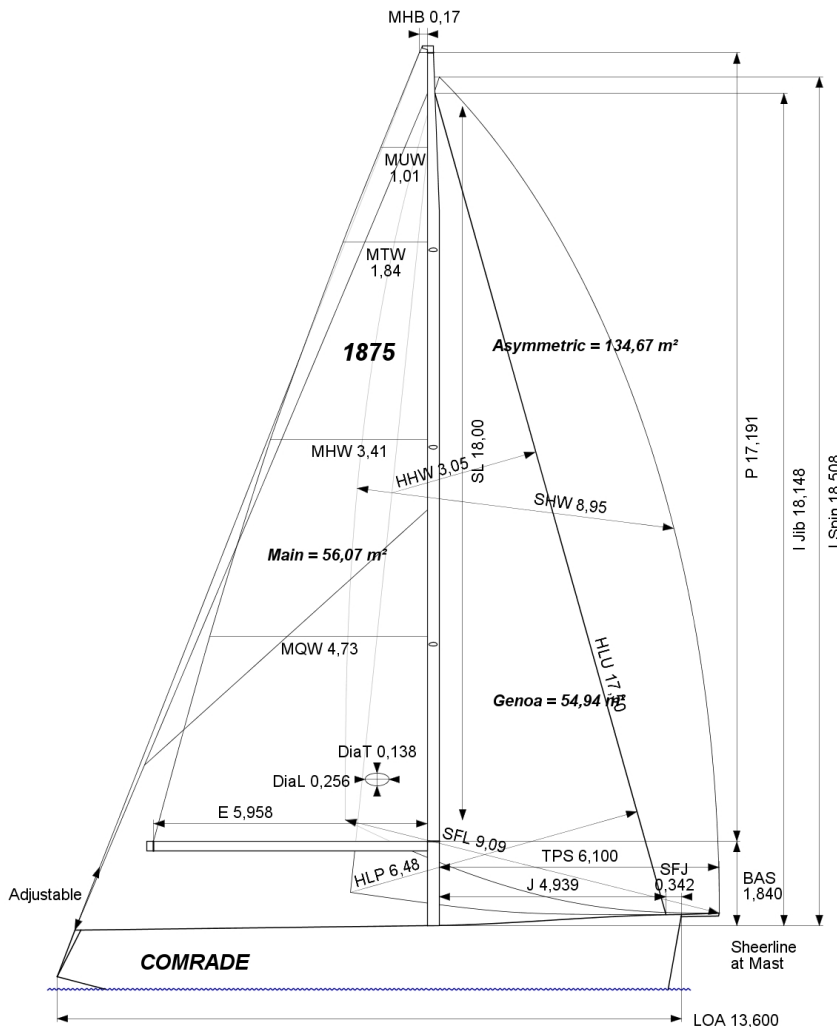
**Class Division Length**

**CDL = 11.377**

**Stability (Estimated)**

Limit Positive Stab.: **113.9°**  
Stability Index: **119.1**

**Owner**



BOAT		GPH	HULL			
Name <b>COMRADE</b> Sail Nr <b>1875</b>		<b>578.5</b>	Data File <b>Comrad95</b>	LOA <b>13.600m</b>		
			Offset File <b>DUF45PER.OFF</b>	MB <b>4.298m</b>		
			Displacement <b>10,870kg</b>	Draft <b>2.296m</b>		
			IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0.271%</b>		
			Fwd Accom. <b>Yes</b>	Construction <b>Solid</b>		
			Fiber Rigging <b>No</b>	Aramid Core <b>No</b>		
			Crew Arm Ex	Carbon Rudder <b>No</b>		
				Light Stanchions <b>No</b>		
			IMSL <b>12.395m</b>	VCGD <b>-0.009m</b>	Sink <b>31.11kg/mm</b>	
			RL <b>10.357m</b>	VCGM <b>0.106m</b>	WS <b>40.55m²</b>	
			LSM0 <b>12.396m</b>	Displacement/Length ratio <b>5.7067</b>		
			Water Ballast <b>0</b>	Trim Tab <b>No</b>		
			BLR Index <b>0.0000</b>			
CLASS		CENTERBOARD				
Class <b>DUFOUR 45E DK</b>		N/A				
Designer <b>FELCI/ROSEO</b>						
Builder <b>DUFOUR YACHTS</b>						
Series <b>01/2008</b>						
Age Date <b>01/2009</b>						
Age Allowance <b>0.357%</b>						
COMMENTS						
Builder's displacement.						
PROPELLER						
Installation <b>Strut</b>		PRD <b>0.380</b>				
Type <b>Folding 3 blades</b>		PIPA <b>0.0006</b>				
SCORING OPTIONS						
	<b>COASTAL / LONG DISTANCE</b>				<b>WINDWARD / LEEWARD</b>	
Time on Distance	<b>561.4</b>				<b>632.5</b>	
Time on Time	<b>1.0687</b>				<b>1.0672</b>	
Triple Number	Low Medium High	Low	Medium	High	Low	Medium High
Time on Distance	<b>673.2</b> <b>509.5</b> <b>451.1</b>	<b>875.6</b>	<b>636.4</b>	<b>548.4</b>		
Time on Time	<b>1.0026</b> <b>1.3248</b> <b>1.4964</b>	<b>0.7709</b>	<b>1.0606</b>	<b>1.2309</b>		