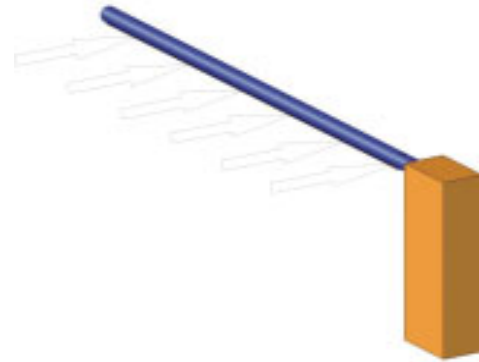


# MAXIMUM TRANSVERSAL WIND SUPPORTED BY FAAC BARRIERS

Hyp.: Wind direction orthogonal to beam side

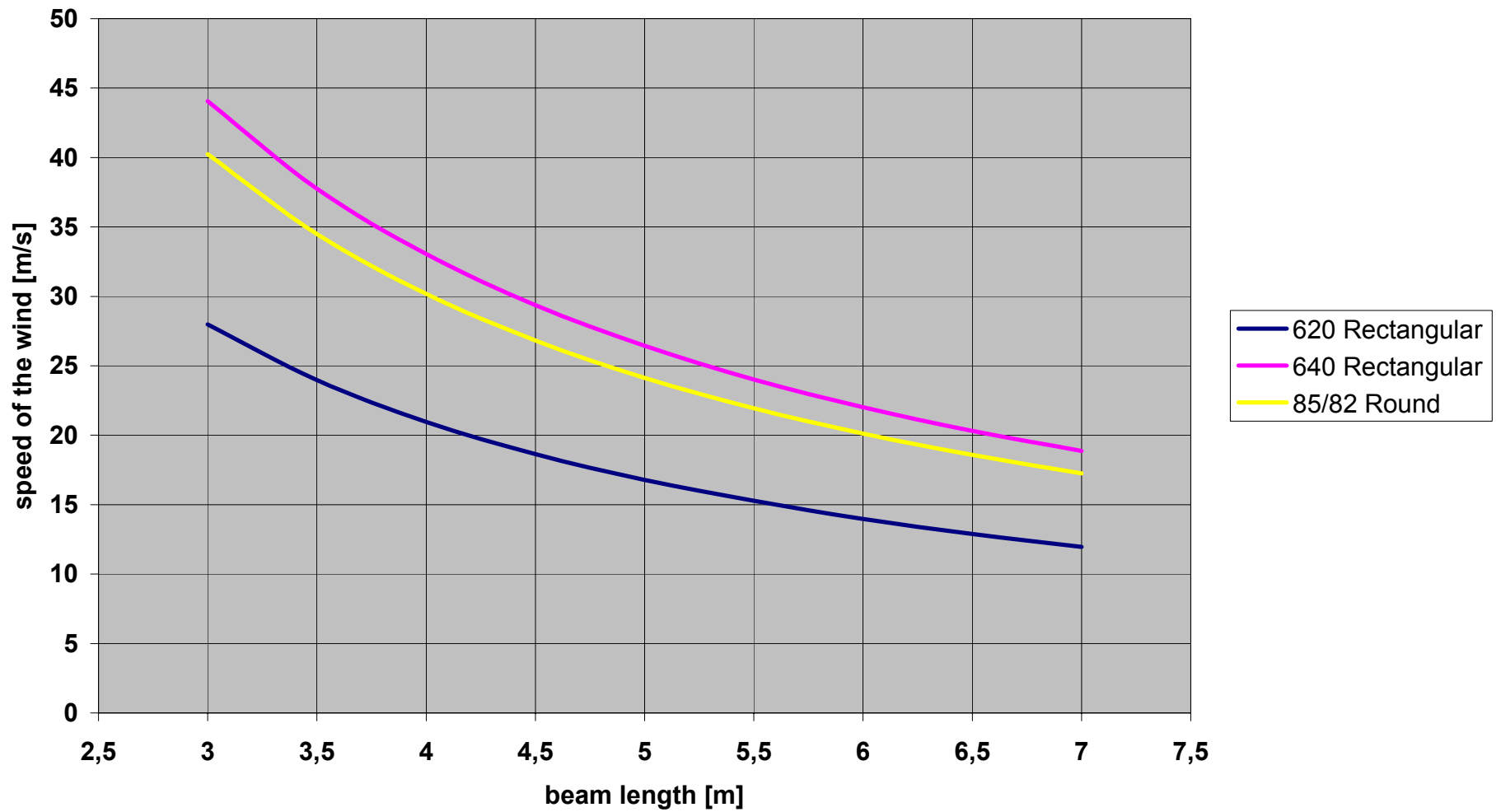
This verification considers the barrier body torsion resistance, this was certified 750Nm from our Laboratory Department.



	<b>620 Rectangular</b>			<b>640 Rectangular</b>			<b>85/82 Round</b>	
Beam length [m]	pressure of the wind [kg/m <sup>2</sup> ]	speed of the wind [m/s]		pressure of the wind [kg/m <sup>2</sup> ]	speed of the wind [m/s]		pressure of the wind [kg/m <sup>2</sup> ]	speed of the wind [m/s]
<b>3</b>	67	<b>28</b>		167	<b>44</b>		139	<b>40</b>
<b>3,5</b>	49	<b>24</b>		123	<b>38</b>		102	<b>34</b>
<b>4</b>	38	<b>21</b>		94	<b>33</b>		78	<b>30</b>
<b>4,5</b>	30	<b>19</b>		74	<b>29</b>		62	<b>27</b>
<b>5</b>	24	<b>17</b>		60	<b>26</b>		50	<b>24</b>
<b>5,5</b>	20	<b>15</b>		50	<b>24</b>		41	<b>22</b>
<b>6</b>	17	<b>14</b>		42	<b>22</b>		35	<b>20</b>
<b>6,5</b>	14	<b>13</b>		36	<b>20</b>		30	<b>19</b>
<b>7</b>	12	<b>12</b>		31	<b>19</b>		26	<b>17</b>

**N.B.** these results aren't extendible on the 615 barrier because this one has a lower barrier body torsion resistance

### Maximum speed of the wind



## Beaufort scale

Force and denomination of the wind		$v$ m/sec	$P$ kg/m <sup>2</sup>
0	perfect calm	0.3 ÷ 1	0.006 ÷ 0.086
1	light aura	1.7 ÷ 2	0.25 ÷ 0.34
2	light breeze	3.1 ÷ 4	0.82 ÷ 1.37
3	light wind	4.8 ÷ 6	1.97 ÷ 3.08
4	moderate wind	6.7 ÷ 8	3.84 ÷ 5.48
5	fresh wind	8.8 ÷ 10	6.64 ÷ 8.56
6	strong wind	10.7 ÷ 12	9.81 ÷ 12.32
7	much strong wind	12.9 ÷ 14	14.25 ÷ 16.78
8	stormy wind	15.4 ÷ 17	20.30 ÷ 24.75
9	storm	18 ÷ 20	27.70 ÷ 34.25
10	strong storm	21 ÷ 23	37.70 ÷ 45.30
11	tempest	24 ÷ 30	49 ÷ 77
12	hurricane	> 30 > 40	> 77 > 140