



*Fédération
Aéronautique
Internationale*

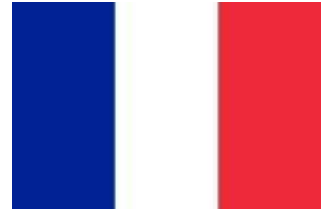


8.2 Part 2 Proposals for glider – Section 6 Part 2

Glider Aerobatics Comitty

**Pekka Havbrandt
GAC Chairman**

2024-09-25



FRA PROPOSAL #9

Document: Section 6 Part 2
 Subject: **Glider rules various**

Proposal “First part”

Rule A21.1.1

A.21.1.1 Full horizontal positive flick 9.9.3.4 only at the apex of upward looping figures.

Add AND 1.1.1.1

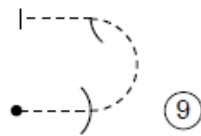
Rule A.21.1.2

Positive half flick on negative line 9.9.8.2 only with catalogue numbers 7.2.2.2 and 7.2.4.1.

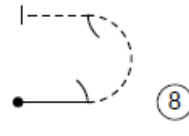
Add also 8.5.3.4 and 8.5.4.3

Rationale: Speeds and configuration on the second line of 8.5.3.4 and 8.5.4.3 is similar to conditions on the second line of 7.2.2.2 and 7.2.4.1

Allowed today

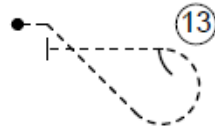


7.2.2.2

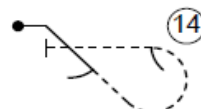


7.2.4.1

Proposed new



8.5.3.4



8.5.4.3

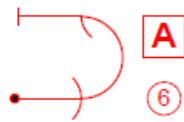
Rule A.22.1.2

Rule A.22.1.2

Negative half flick on positive line 9.10.8.2 only with catalogue numbers 7.2.2.1 and 7.2.4.2. Add also 8.5.3.3 and 8.5.4.4

Rationale: Speeds and configuration on the second line of 8.5.3.3 and 8.5.4.4 is similar to conditions on the second line of 7.2.2.1 and 7.2.4.2

Allowed today

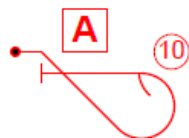


7.2.2.1



7.2.4.2

Proposed new



8.5.3.3



8.5.4.4

This part of the proposal was accepted by GAC.

Proposal “Second part”

Add in Advanced

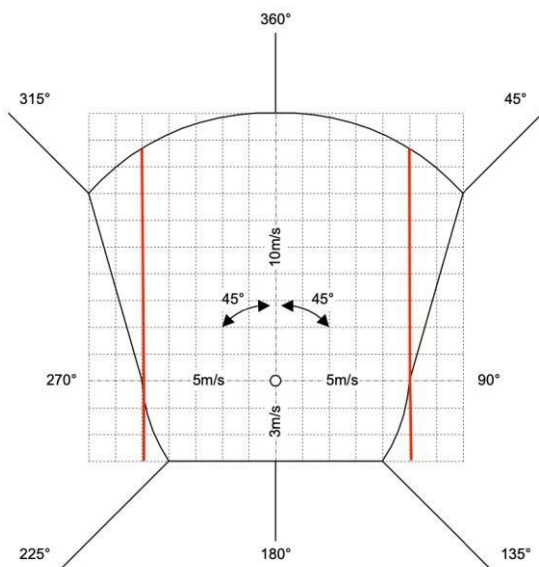
2.2.1.7. add figure 2.1.2.1 In Appendix A add 2.1.2.1

Rationale: As a 1st step of adding Rolling circle in Advanced

This part of the proposal was rejected by GAC.

Proposal “Third part”

Modify rule 3.7.1.10



Winds speed and direction limits : should never exceed 5m/s crosswind whatever the direction is
Rationale : with 5m/s cross wind, cumulated deviation already reach around 750m (5 * approx 180s flight duration)

OR adopt the same wording (with different mesures) as power (3.6.2.3.) The maximum permissible average wind speed components are:

Altitude	Direction	Max.permissible
Surface	Any	10 m/s
	Crosswind (ref. runway)	5 m/s
	Tailwind (ref.box main axis)	3 m/s
300 m	Headwind (ref.box main axis)	10 m/s
600 m	Crosswind (ref.box main axis)	5 m/s
	Tailwind (ref.box main axis)	3 m/s

This part of the proposal was rejected by GAC.

Proposal “Forth part”

Rule 2.3.1.4

Add: One of the 7 proposed figures must be a reverse one

This part of the proposal was rejected by GAC.

Proposal “Fift part”**Rule 2.3.1.6**

...

If it is obvious that with the proposed figures no reasonable sequence can be composed, the jury will encourage ask NACs to modify their figures accordingly. **If none of the NAC is willing to change their proposed figures, the International Jury is entitle to make the decision.** Altitude Direction Max.permissible Surface Any 10 m/s Crosswind (ref. runway) 5 m/s Tailwind (ref.box main axis) 3 m/s 300 m Headwind (ref.box main axis) 10 m/s 600 m Crosswind (ref.box main axis) 5 m/s Tailwind (ref.box main axis) 3 m/s

This part of the proposal was accepted by GAC.

GER PROPOSAL #1



Document: Section 6 Part 2

Subject: **Frequency of World Championships**

Proposal

Paragraph 1.2.1.1 World Championships actually mentions in point a): “World Championships will be held every year.” We propose to change this to: “World Championships will be held **every two years.**”

Rationale

In the recent years we experience a continuous reduction of participants in glider world championships. In 2023, the number in unlimited class was near the minimum number of participants which is required to have a valid championship (15).

Also, we have increasing difficulties to find countries applying for a championship. Usually bids are coming late, one year ahead of the championship, making organisation and preparation difficult.

The reducing number of participants causes difficulties to an organiser, to finance an event which is adequate to an international championship.

Doing aerobatics on an international level requires a lot of training, which is time consuming and expensive. Participating in such an event is time consuming and expensive as well. Since we see in every country, that supporting money by states or national aeroclubs is more and more reducing, many pilots cannot participate each year.

Changing to a biennial schedule matches the temporal and financial capabilities of competitors, and organisers, and would allow also to better create a setting, which is more reasonable and worthy to a world championship.

This part of the proposal could not be decided.

Votes 3- 3.



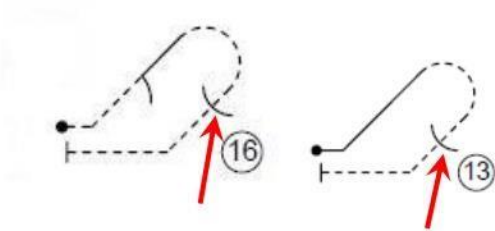
GER PROPOSAL #2

Document: Section 6 Part 2

Subject: **Figures in Programmes 2 to 6**

Proposal

Appendix A, list of figures for programmes 2 through 6, A.14, remove the optional roll on the 45° downward line of figures 8.4.15.2 and 8.4.17.1



Rationale

The figure comprises a negative arc, followed by a 45° downward line. Actually appendix 1 allows to add a full slow roll (9.1.4.4) to this 45° downward line. With our available gliders, even the Swift, the speed on the entry to the 45° line will be reasonably high, so that the remaining gap to Vne will be insufficient to safely fly a full slow roll within the operating limits.

During a recent contest, the figure 8.4.17.1 was flown, and the average speed at the end of the arc was reported between 170 and 200 km/h with Swift, Fox and SZD59.

This proposal was accepted by GAC.

NP2025-18

GER PROPOSAL #3



Document: Section 6 Part 2

Subject: **Figures in Programmes 2 to 6**

Proposal

Appendix A, list of figures for programmes 2 through 6 includes figures allowed for the unknown programmes in glider competitions. Add restrictions to the use of certain figures, or optional elements, if there are gliders SZD59 or MDM1 Fox, or similar types, are participating.

Add a paragraph 2.3.1.7 to section 6 part 2:

2.3.1.7 If gliders SZD59 Acro, MDM1 Fox or gliders with comparable characteristics and performance participate in a contest, the respective limitations in figure selection for programmes 2 to 6 apply.

Rationale

In the last years, the Swift is the dominant glider in our sport. However, it's availability is limited, and a successor is not in sight. Other available aerobatic gliders, such as SZD59 and MDM1 Fox, are unable to fly all allowed manoeuvres in their operating limits. This causes that either many competent pilots cannot participate due to lack of a suitable glider or are misled to exceed operating limits of gliders available to them. This problem will increase in the coming years. We must afford participation also with gliders, which are less performant than a Swift. As we in the last years, when respective gliders participated, had excessive and exhausting discussions, what is acceptable fly with a glider type, and what not, we should add respective limitations to Appendix A.

Attachment

Section6_part2_v2024_v1 with markups

This proposal was accepted by GAC.



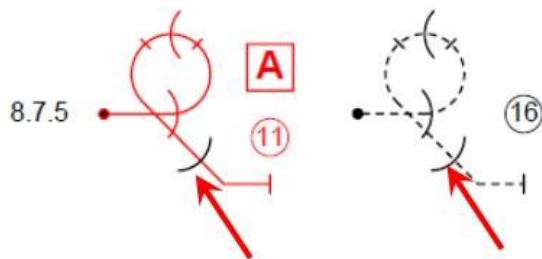
GER PROPOSAL #4

Document: Section 6 Part 2

Subject: **Figures in Programmes 2 to 6**

Proposal

Appendix A, list of figures for programmes 2 through 6, A.16, remove the optional roll on the 45° downward line in figures 8.7.5.1 and 8.7.5.2.



Rationale

The figure comprises a 7/8 loop, followed by a 45° downward line. Actually appendix 1 allows to add a full slow roll (9.1.4.4) to this 45° downward line. With our available gliders, even the Swift, the speed on the entry to the 45° line will be reasonably high, so that the remaining gap to Vne will be insufficient to safely fly a full slow roll within the operating limits.

This proposal was accepted by GAC.