



FAI Sporting Code

Section 6

*Fédération
Aéronautique
Internationale*

Regulations for the Conduct of International Aerobatic Events

Part 3

Powered and Glider Aerobatics

World Air Games

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FÉDÉRATION AÉRONAUTIQUE INTERNATIONALE

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¹ FAI Statutes, Chapter 1, para. 1.6

² FAI Sporting Code, General Section, Chapter 3, para 3.1.3.

³ FAI Statutes, Chapter 1, para 1.8.1

⁴ FAI Statutes, Chapter 2, para 2.1.1; 2.4.2; 2.5.2 and 2.7.2

⁵ FAI Bylaws, Chapter 1, para 1.2.1

⁶ FAI Statutes, Chapter 2, para 2.4.2.2.5,

⁷ FAI Bylaws, Chapter 1, para 1.2.3

⁸ FAI Statutes, Chapter 5, para 5.1.1; 5.5 and 5.6

⁹ FAI Sporting Code, General Section, Chapter 3, para 3.1.7

¹⁰ FAI Sporting Code, General Section, Chapter 1, paras 1.2. and 1.4

¹¹ FAI Statutes, Chapter 5, para 5.6.3

¹² FAI Bylaws, Chapter 1, para 1.2.2



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1. GENERAL RULES FOR WORLD AIR GAMES AEROBATIC CHAMPIONSHIPS

1.1. Aims Of World Air Games Aerobatic Championships (WAGAC)

- 1.1.1.1. To establish the Overall World Air Games Champions in Powered and Glider divisions.
- 1.1.1.2. To promote and popularise aerobatics and to develop and foster friendly relations between aerobatic pilots of different countries.
- 1.1.1.3. In pursuance of these aims and in case of dispute over the interpretation and application of these rules, and any other regulations for the conduct of aerobatic championships and competitions, a competitor shall be entitled to the benefit of reasonable doubt.

1.2. General Regulations

1.2.1. Contest Categories

- 1.2.1.1. World Air Games
 - a) World Air Games will be held every two years. The location will be decided by the FAI following a competitive bidding process from potential host cities.

1.2.2. Aircraft Categories

- 1.2.2.1. WAGAC will be open to:
 - a) Single piston-engine aircraft - Division "P"
 - b) Glider aircraft - Division "G"

1.2.3. Number of Competitors

- 1.2.3.1. The number of competitors in each Division will be ten. Allocation of places to National Aero Clubs (NACs) will be determined by CIVA, based on the results of preceding World Championships, and published in CIVA meeting minutes. Representation will include male and female pilots. The scoring and determining of champions will be gender blind.

1.2.4. Support Personnel

- 1.2.4.1. In addition to their pilot competitors, each participating NAC may send the following support personnel at their own expense:
 - a) A trainer for each Division (Power/Glider).
 - b) A mechanic for each Division (Power/Glider).
 - c) An interpreter.

1.2.5. Entries

- 1.2.5.1. The determination of which NACs are eligible to participate and with how many pilots is in accordance with CIVA policy as reflected in the Minutes of its plenary meeting(s). The CIVA Bureau will approve all pilot entries to be sure they meet the standards of the World Air Games. After the selection procedure is complete, FAI, CIVA, and the organizers will liaise directly with pilots.

1.2.6. Aircraft Documentation

- 1.2.6.1. All competing aircraft must meet the performance characteristics required for the kind of flight they will be undertaking. A valid aerobatic certificate of airworthiness or equivalent document issued by the competent aviation authority of the aircraft's country of registration must be produced to the organisers for every contest aircraft.



- 1.2.6.2. Aircraft will not be admitted to the contest unless the appropriate documentation has been submitted to the organisers.

1.2.7. Air Safety

- 1.2.7.1. All competitors must observe and adhere to the regulations currently in force in the host country for air safety as well as the special regulations in force at the contest aerodrome. To facilitate this, the organiser must ensure that an English translation of applicable rules, issued by the Aviation or Customs Authorities of the host country, is available in advance in a bulletin or on the competition website.
- 1.2.7.2. Any violation of the safety regulations in force may at any time render the offender liable to exclusion from the contest. No responsibility will be undertaken by the organisers for any such violation by competitors or others.
- 1.2.7.3. To enable the pilot to watch over his or her own safety, an accelerometer must be installed in each competing aircraft.
- 1.2.7.4. The Chief Judge may, with the agreement of two-thirds of the Board of Judges, exclude a pilot who is not flying safely or could cause an unsafe situation. This would apply from takeoff to touchdown.
- 1.2.7.5. Any competitor required to interrupt a competition flight due to danger of collision with conflicting air traffic or a bird, should orbit in a safe place until the conflict is resolved. In this event, the Chief Judge will allow additional time if required.

1.2.8. Insurance

- 1.2.8.1. The organisers will provide a promoter's liability insurance of an adequate sum against third party risks for the duration of the contest covering functional test flights, training and competition flights, in accordance with the legal requirements of the country in which the championships or competition is held.
- 1.2.8.2. All competitors must produce evidence of an aircraft insurance policy with adequate third party insurance valid for the duration of the contest and valid in the organiser's country. The organisers should specify in local regulations the amount of insurance cover regarded as adequate.

1.2.9. Competitors and Aircraft

- 1.2.9.1. All training and competition flights carried out by competitors at the World Air Games Aerobatic must be made solo. In view of the short time slots in the contest programme and the number of pilots, no aircraft shall be shared by more than two persons. If numbers of competitors are reduced further for the final programmes in each discipline, then Power and Glider flights may be flown alternately to preserve the continuity of the flying programme.
- 1.2.9.2. Replacements of competitors at WAGAC will be left to the discretion of the International Jury, but no such replacement will in any case be permitted less than 12 hours before the commencement of the first competition flight in the relevant division.
- 1.2.9.3. A contest aircraft may on the recommendation of the technical commission, and with the permission of the International Jury, be replaced at any time by another contest aircraft.



1.3. Classification Of Aerobatic Contests

At WAGAC the following competition flights will be scheduled:

1.3.1. Programmes "P"

- 1.3.1.1. Programme P1. The Known Compulsory Programme
- 1.3.1.2. Programme P2. The Timed Free Programme
- 1.3.1.3. Programme P3. The Freestyle Programme
- 1.3.1.4. Programme P4. The Masters Programme

1.3.2. Programmes "G"

- 1.3.2.1. Programme G1. The Free Programme
- 1.3.2.2. Programme G2. The Precision Programme
- 1.3.2.3. Programme G3. The Artistic Programme
- 1.3.2.4. Programme G4. Repeat of Programme G3.

1.3.3. Champions "P"

- 1.3.3.1. World Air Games Champion in the powered aircraft division will be the competitor who gains the highest total of points from the aggregation of Programmes P1, P2, P3 and P4.
- 1.3.3.2. Awards will be given in compliance with paragraph **Erreur ! Source du renvoi introuvable..**

1.3.4. Champions "G"

- 1.3.4.1. World Air Games Champion in the glider aircraft division will be the competitor who gains the highest total of points from the aggregation of Programmes P1, P2, P3 and P4.
- 1.3.4.2. Awards will be given in compliance with paragraph **Erreur ! Source du renvoi introuvable..**

1.3.5. Champions and Winners

- 1.3.5.1. In addition to establishing World Air Games Champions, second and third placings will also be established in the overall competition and these will be recognised by the award of FAI medals and diplomas.

1.4. Contest Bodies

1.4.1. The International Jury

- 1.4.1.1. The International Jury is the supreme arbitration body of international aerobatic events and shall be responsible for:
 - a) Interpreting the general rules, the judging rules and the general regulations of the contests;
 - b) Supervising the activities of the Chief Judge and the Board of Judges; during judging, a member of the International Jury must not remain in the vicinity of the International Judges;
 - c) Supervising the technical commission;
 - d) Dealing with protests from competitors.
 - e) Overseeing the administration of the contest.



1.4.1.2. Appointment

- a) The International Jury at the WAGAC will be appointed by the FAI Aerobatics Commission (CIVA) and will consist of a chairman and at least 2 members with adequate reserves, who must be members of different national aero clubs.
- b) The Chief Judge shall be an advisory member of the International Jury and the Contest Director shall be adviser to it.
- c) The President of CIVA or one of the Vice Presidents will be chairman of the International Jury and will supervise its activities. Detailed duties of the International Jury are contained in Section 3.

1.4.1.3. At least three members of the International Jury must be available to hear appeals or protests submitted by competitors.

1.4.1.4. Any decision taken by the International Jury by majority vote is final.

1.4.1.5. The International Jury may temporarily vary any rules approved by the International Aerobatics Commission (CIVA) during a contest under the following circumstances:

- a) There is simple majority within the International Jury, with no abstentions, when conducting a vote to introduce a temporary variation to the regulations, and
- b) There is at least a two thirds majority in agreement amongst the participating pilots, with no abstentions, when conducting a vote to introduce a temporary variation to the regulations.

1.4.1.6. In the event that the rules of the Sporting Code are not adhered to at a WAGAC, or if the International Jury is not provided with sufficient information to perform their duties in accordance with the rules, the International Jury may stop the contest until matters are remedied. If remedial action is not taken, the International Jury has the power to declare that the requirements of a WAGAC have not been fulfilled in accordance with the. If this latter action is taken, the International Jury shall prepare a full report for submission to the next meeting of CIVA at which their decision shall either be endorsed or reversed.

1.4.1.7. The Jury will be responsible to the International Air Sports Board (IASB) which has ultimate power to confirm or overturn decisions of the Jury for the aerobatics events. The IASB is responsible for making sure all events are conducted in accordance with the purposes and goals of the World Air Games.

1.4.2. Board of Judges

1.4.2.1. Details concerning the employment of the Chief Judge and the composition of the Board of Judges and the appointment and disqualification of its members are laid down in the FAI Sporting Code, Section 6, Part 1 for powered aircraft and Part 2 for Glider aircraft. These regulations shall apply, respectively, to the powered and glider elements of WAGAC.

1.4.2.2. The number of Judges will be in accordance with the agreement between World Air Games organizers and the FAI, but the number judging each programme shall not be less than five.

1.4.3. Contest Management

1.4.3.1. The Contest Director will be responsible for the regular and orderly performance of the contest. The Contest Director is responsible to the International Jury for the efficient administration of the contest.



1.4.3.2. The contest management will be composed of:

- a) The Contest Director,
- b) The Flight Director,
- c) The Chief Judge,
- d) The Chairman of the Technical Commission.

1.4.4. Technical Commission

1.4.4.1. The Technical Commission will be composed of 3 engineers or mechanics, provided by NACs or the Organisers. There will be one Chairman and one specialist each for powered aircraft and gliders (total of 3). The International Jury shall approve the members of the Technical Commission for WAGAC.

1.4.4.2. The technical representative of the organisers will be nominated as the Chairman of the Technical Commission.

1.4.4.3. The Technical Commission is responsible to the International Jury for the inspection of competing aircraft and of aircraft documentation; for certifying compliance with the airworthiness regulations of aircraft after inspection; for a qualified and objective inspection in case of defects of the technical equipment; and for finding the causes of defects which have occurred during the competition flights. The Technical Commission will advise and inform the International Jury on any points of technical importance.

1.4.4.4. The Technical Commission is also responsible for blocking radio sets to use only the official 'Safety Frequency'.

1.5. Protests

1.5.1.1. Protests will be accepted from individual competitors only. They will be dealt with in compliance with the FAI General Section of the Sporting Code, Chapter 5. All protests must be submitted to the President of the International Jury in writing, either directly or through a member of the jury, with a deposit, not later than two hours after the occurrence, decision or publication of results which causes the protest to be made. "Non-working" hours, as defined in local regulations for the World Air Games will not be counted. Every protest must refer to the rule or rules to which it relates. The amount of the deposit shall be stated in the local regulations. It should not exceed €100.

1.5.1.2. The deposit will be returned if the protest is upheld. The International Jury may request the attendance of the protesting competitor if it considers this desirable. The decision of the International Jury is final.

1.6. Final Regulations

1.6.1. Interpretation

1.6.1.1. International aerobatic events will be carried out in compliance with Sporting Code and local regulations of the organisers.

1.6.1.2. Any differences arising during an event will be dealt with by reference to the above rules. For the interpretation of the text at championships, a standard version written in English shall be taken as the authority.



1.6.2. Competitors' Pledge

- 1.6.2.1. All competitors undertake, by signing the entry form, to comply with the General Section of the Sporting Code of the FAI, the Regulations of CIVA and any local regulations made under rule 1.2.7.

1.6.3. Supplementary Rules

- 1.6.3.1. The organisers will, within the scope of the Sporting Code and the approval by CIVA, prepare such local regulations or specialized details as are relevant and necessary for clarification of organisational problems and duly distribute them to all FAI national aero clubs (see 1.2.7, 1.2.8).
- 1.6.3.2. The technical and organisational preparations of WAGAC will be checked by CIVA regarding their compliance with the general rules before the beginning of the event. The organisers shall publish details in the agreed FAI language(s) and send to the participating NACs, not less than 6 months prior to the WAGAC:
- a) the local regulations containing only local operating procedures and administrative details including details of the aerodrome at which the Championships will be held.
 - b) An English translation of applicable rules, issued by the Aviation or Customs Authorities of the host country.



2. JUDGING RULES FOR WORLD AIR GAMES AEROBATIC CHAMPIONSHIPS

2.1. Board of Judges

2.1.1.1. The numbers and selection of the Chief Judge and the Board of Judges for powered and glider events will be as described in the relevant paragraphs of Sporting Code, Section 6, Parts 1 and 2 respectively, with the following exceptions.

2.1.2. Composition of the Board of Judges

2.1.2.1. At WAGAC the Board of Judges will be composed of:

- a) The Chief Judge (scoring);
- b) A minimum of 4 International Judges and 4 assistants for marking the quality of aerobatic manoeuvres and positioning.

2.2. Monitoring of Aircraft Position

2.2.1. Electronic Tracking Instrument

2.2.1.1. An electronic tracking instrument may be used for monitoring aircraft position. However, positioning will be graded solely by the Board of Judges. Line Judges will not be used.



3. DUTIES OF THE INTERNATIONAL JURY

- 3.1.1.1. The duties of the International Jury at WAGAC will be as described in Sporting Code, Section 6, Parts 1 and 2 respectively.
- 3.1.1.2. Deliberations of the International Jury will be carried out in English.



4. THE ORGANISATION OF WORLD AIR GAMES AEROBATIC CHAMPIONSHIPS

4.1. Administrative Arrangements

4.1.1. Entry Fees

4.1.1.1 There are no entry fees for World Air Games.

4.1.2. Accommodation, Food, Medical Services

4.1.2.1. At World Air Games, the organisers will provide adequate accommodation and food for the duration of the event to all competitors and FAI/CIVA officials.

4.1.2.2. The organisers will be responsible for adequate medical services being available to all official participants.

4.1.3. Fuel and Oil

4.1.3.1. At WAGAC, aircraft fuel and oil will be provided by the organisers for functional test flights and contest flights without imposing extra charge.

4.1.4. Technical Services

4.1.4.1. The organisers will provide technical assistance and hangarage for competing aircraft, if required.

4.1.5. Briefings

4.1.5.1. Prior to the start of a contest there will be a briefing by the organisers for participants, members of the International Jury and Judges, on flight conditions, the contest programmes, and any other problems which might arise over the interpretation of the rules.

4.1.5.2. For familiarisation with and a standardised interpretation of the judging rules the Chief Judge will hold seminars with the Judges and pilots, and carry out at least one judging test. Throughout the duration of the contest the Chief Judge will hold routine evaluation meetings with the Judges.

4.1.5.3. Before the beginning of competition flying, on each competition day, a briefing will be held for competitors, officials, judges and the International Jury on organisational matters concerning the competition day and on meteorological conditions. The briefing should last not longer than 30 minutes.

4.1.6. Sequence of Flights (Drawing of Lots)

4.1.6.1. The sequence of flights for all Programmes will be determined by drawing of lots to be arranged by the Contest Director or his Assistant, in the presence of a representative of the International Jury. Each competitor will draw his or her own lot. In the event a competitor is not present to draw his or her own lot, a member of that competitor's support team may do so.

4.1.6.2. The sequence of flights may be altered by the International Jury if special circumstances require, e.g. when two closely-drawn pilots are to fly the same aircraft.

4.2. Operating Regulations

4.2.1. Video/Audio Devices

4.2.1.1. Video cameras may be mounted in/on competition aircraft.

4.2.1.2. The use of technical devices to convey audible information to the pilot is not permitted during WAGAC except for a radio set with a blocked "Safety Frequency". Radio sets are



required and must be able to be tuned to the "Safety Frequency". Any other devices, which are not permitted, will either be removed from the competing aircraft or rendered inoperative and sealed by the Technical Commission. Receiving any kind of audible information from any unauthorised technical device will make the competitor liable to disqualification from the contest.

- 4.2.1.3. Radios, set to the "Safety Frequency", are only for communication from the Chief Judge to the competing pilot for box control purposes and to serve urgent flight safety matters.
- 4.2.1.4. The "Safety Frequency" will be selected by the organisers and given to the competitor together with the competition papers. The "Safety Frequency" will be monitored during all competition flights, and possibly recorded on tape.
- 4.2.1.5. The organisers (the Technical Commission) will be responsible for technically adequate sealing of radios (without penetrating the interior) assuring that no frequency other than the "Safety Frequency" can be used.
- 4.2.1.6. Once airborne, and before entering the Performance Zone, a pilot may call the Chief Judge on the safety frequency, saying: "Number x, radio check". The Chief Judge must respond to this call if he hears it. If he/she hears no response, the pilot may elect to land as in the case of any other technical defect. However, as time slots for the WAGAC are limited, repeat flights are unlikely to be permitted.
- 4.2.1.7. The standard phraseology in the event that the time limit is exceeded will be the Chief Judge saying "Time, time, time" and no other. The standard phraseology in the event that a break is required for safety reasons will be the Chief Judge saying "Break, break, break" and no other.

4.2.2. Meteorological Conditions

- 4.2.2.1. Flights will be carried out at the times, between sunrise and sunset + 30 minutes, directed by the World Air Games organisers.
- 4.2.2.2. Minima
 - a) The minimum height of the significant cloud base must be 800 metres (600 metres for Programme P3) for powered aircraft or 1,000 metres for Gliders. In this context, small amounts of cloud which do not obscure the performing aircraft are not considered significant. Organisers may re-order Programme P3 to take advantage of its lower cloud limit.
 - b) The minimum prevailing flight visibility, determined with reference to ground features from the midpoint of the contest area at the maximum height for the competition flight, must be 3 kilometres.
 - c) The maximum permissible steady wind speed at the surface, or at 500 metres, is 16 m/sec (Powered) or 12 m/sec (Glider).
 - d) Competition flight will not take place in precipitation.
- 4.2.2.3. Weather Information
 - a) The Contest Director must provide the competitors, the Chief Judge, the Board of Judges and the International Jury with information based on weather observations made no more than 30 minutes before aerobatic flying is due to commence. Further observations during the flight period are not required unless there is a drastic deterioration in the weather conditions.



- b) Visibility and cloud base should be determined by local airborne observation.
- c) The weather bulletin with information on wind speed and direction will be published on a board at the flight line.

4.2.2.4. Adverse Weather

- a) If the meteorological conditions do not meet the requirements of 4.2.2.2, the Chief Judge after consultation with the International Jury will discontinue competition flights.
- b) If the cloud is at least 800 metres above aerodrome level, and if a majority of participating pilots agree, the International Jury may relax the visibility and wind limitations stated above in the interests of completing the competition programmes before the end of the contest period
- c) If in his or her opinion the weather conditions do not allow safe completion of his or her sequence, a competitor may discontinue his or her flight before starting the sequence. However, as time slots for the WAGAC are limited, repeat flights are unlikely to be permitted.

4.2.2.5. Permitted Breaks

All flights must be made continuously. Un-penalized breaks will not be permitted, unless the pilot is required to interrupt a competition flight due to danger of collision as described in 1.2.7.5.

4.2.2.6. Demonstration Flights

In the event that the cloud base is below competition minima, pilots may be asked to undertake demonstration flights and may choose to do so at their discretion.

4.2.3. Conduct of Competition Flights

- 4.2.3.1. Competition flights at Championships and International Competitions will be made separately in the sequence determined by the drawing of lots or by rank order, as appropriate. No competitor may commence a competition programme before completing the previous one.
- 4.2.3.2. The direction of flight for the start of the Compulsory Programmes shall be determined by the International Jury. The International Jury shall also determine the alignment of the main axis for the other Programmes, but the competitor may choose to start his or her first figure along either axis in either direction, provided he or she shows clearly on the drawings of his or her programme the direction to be chosen.
 - a) The decision with regard to the into-wind direction of flight shall take into account the direction of the actual wind. Flying at the start of each flight programme, shall commence along the main axis into component of the prevailing wind.
- 4.2.3.3. The organiser of WAGAC must establish an efficient radio communication between the contest officials (Contest Director, Chief Judge, Flight Director, Chairman of the Technical Commission, and International Jury) and supervise the running of the contest and the contest rules.

4.2.4. Height Limitations

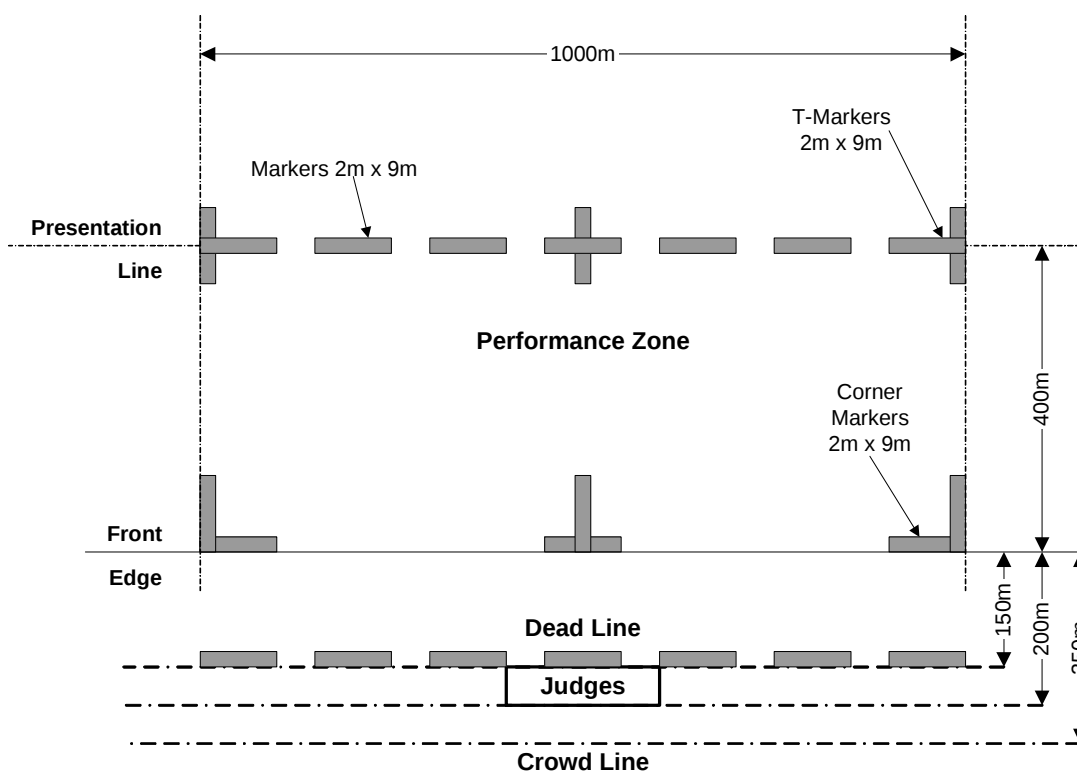
4.2.4.1. The following height limitations have been determined for all contest flights:

Category	Upper	Lower	Disqualification
Power	1000 m	100 m	50 m
Glider	1100 m	100 m	50 m

4.2.4.2. Penalties

- Disqualification (for the current programme) for infringements of the disqualification height limit (4.2.4.1), by which air safety is endangered, shall be decided by a two-thirds majority vote of the Board of Judges.
- When a precision height measuring device is not available, a competitor will be penalized for an infringement of the lower height limit or the upper height limit in accordance with paragraph 5.2.2.1 if observed by a simple majority of the judges.

4.2.5. Performance Zone



- The programmes will be flown with reference to a main axis (or also called a "Presentation Line") marked on the ground, which will be 400 m from the front edge of the Performance Zone. The Performance Zone will be 1000 metres long and 800 metres deep. The zone must be located adjacent to a suitable emergency landing area.
- A deadline shall be established parallel to the main axis and 150 metres outside the front boundary of the Performance Zone. The judging position shall be 150m to 200m from the front boundary. The crowd line should be 250 metres from the front boundary, or further if required by local regulations.



- 4.2.5.3. The Presentation Line and the dead line shall both be marked by 7 contrasting marking strips. The size of these markers must be at least 2 x 9 metres, with the longer side aligned with the direction of the axes. The ends and centre of the axes must be clearly marked by additional strips at least 2 x 9 metres in size. These markings are shown schematically in the diagram above.
- 4.2.5.4. The colour of the marking strips must be in distinct contrast to the ground and other airfield markings, which latter should be removed if possible. If necessary, changes from this pattern may be made to suit local conditions. Any such changes must be approved by the International Jury.
- 4.2.5.5. Marking must be complete prior to the first competition briefing. Aerial pictures of the box must be distributed to the International Jury and competing pilots to determine the correctness of the box geometry and to facilitate familiarization with the physical references.
- 4.2.5.6. Marking of positioning will be carried out by the Board of Judges. The recording of infringements of the deadline may be carried out with an electronic positioning instrument or by a suitably qualified Deadline Judge. If an electronic instrument is in use and becomes inoperable, a Deadline Judge must be used for each flight.
- 4.2.6. Duration of Flight and Signalling Start and Finish**
- a) Limits for timed programmes are given in the paragraphs describing those programmes. For non-timed Programmes, the WAGAC organiser will allocate time slots to individual competitors, which must be adhered to. Failure to meet this slot by more than 2 minutes will result in disqualification from the Programme.
- 4.2.6.2. Signalling
- a) A competitor must signal the start and finish of each programme, and any interruption, by distinctly dipping the wing three (3) times immediately one after the other by more than 45 degrees. For timing purposes the programme is deemed to start on the return of the wings to level after the third wing dip; and is deemed to finish on their return to level after the third of the final wing dips.
- b) The aircraft may start and/or finish the wing dips either inside or outside the aerobatic zone. They may be in normal or inverted flight or a horizontal, climbing or descending path. If the first figure in a programme begins in inverted flight, all wing dips must be performed in inverted flight. The competitor may change his flight attitude from normal to inverted only by a half roll prior to the first wing dip. The return of wings to 'level' therefore does not necessarily refer to the aircraft being 'in level flight'.
- c) A horizontal flight path is required at the start of the first figure of Programmes P1, P2, G1 and G2. This horizontal may be started inside the aerobatic zone or, provided that it is clearly seen to continue inside, it may be started outside the zone.
- 4.2.7. Measures in Case of Mechanical Defects**
- 4.2.7.1. Defects on the Ground
- a) In the event of a competing aircraft becoming unserviceable before the start of a flight, the International Jury may, on the recommendation of the Technical Commission, permit the competitor to use another aircraft.

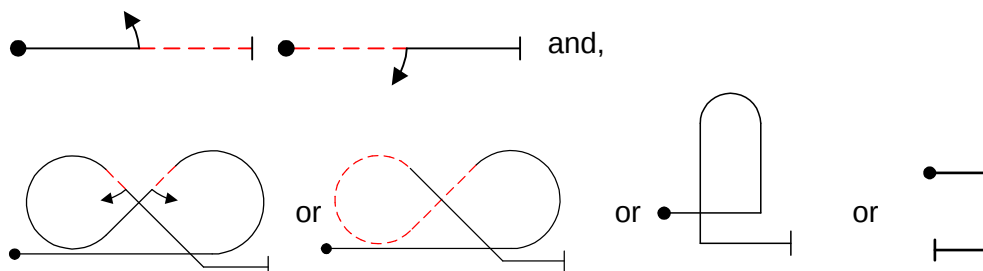
4.2.7.2. Defects in Flight

- a) In the event of a technical problem a competitor may break off his or her flight. However, as time slots for the WAGAC are limited, repeat flights are unlikely to be permitted.

4.3. Programmes Of World Air Games Aerobatic Championships

4.3.1. Competition Flights

- 4.3.1.1. Each competitor will make four competition flights. Smoke may be used on all flights at the option of each individual pilot.
- 4.3.1.2. The WAGAC organisers shall designate an airborne holding area for aircraft awaiting their turn to enter the Performance Zone. This will apply to powered aircraft and gliders on tow.
- 4.3.1.3. While in the holding area, it is recommended that all powered pilots perform safety manoeuvres as follows. These figures are optional but, if flown, must be flown inside the holding area:



4.3.2. Programme P1 – The Known Compulsory Programme

- 4.3.2.1. The Known Compulsory Programme will be composed of ten (10) figures in normal and inverted flight performed consecutively and continuously, observing the prescribed sequence of the figures. The total figure difficulty will be within the range 480K-500K. The figures will be selected from the Aresti System (Condensed).
- 4.3.2.2. Programme P1 will not be time limited, but pilots will be expected to adhere to slot times allocated by the contest organiser.
- 4.3.2.3. Programme P1 will be selected and made known by CIVA at least six months prior to the beginning of the WAGAC.

4.3.3. Programme P2 - The Timed Free Programme

- 4.3.3.1. The Timed Free Programme shall have a duration of five (5) minutes from the third wing-dip (see 4.2.6.2). Only figures completed by this time limit will be graded. A combination will be taken as one figure. There will be no limit to the number of figures flown nor to their aggregate total difficulty.
- 4.3.3.2. The method of constructing figures and calculating difficulty coefficients is as described in the Aresti System (Condensed) as currently amended by CIVA.
- 4.3.3.3. The start and finish of Programme P2 must be carried out in normal or inverted level flight. Any figure or combination of figures which is identified in the Aresti System (Condensed) as currently amended by CIVA may be selected to compose the Free Programme
 - a) Any figure or combination of figures which is selected must bear the catalogue reference number(s) and the difficulty coefficient(s) (K) stated in the Aresti System



(Condensed) as currently amended by CIVA. The numbers and coefficients in the Aresti System (Condensed) will be taken as definitive.

- b) A catalogue reference number may be used only once.

4.3.3.4. Composition

- a) The character and composition of basic figures must not be changed when combining other figures with them.
- b) The direction of rotation of rolls is not prescribed. However:
 - i) When rolls are in continuous rotation, the tips of the symbols are to be linked by a small line.
 - ii) In un-linked rolls performed in the same direction, no line links the symbols but the tips must be drawn pointing in the same direction.
 - iii) In opposite rolls the tips of the symbols must be drawn pointing in opposite directions.
- c) Un-linked rolls in the same direction must be of different types. The two types of rolls are defined as follows:
 - i) Aileron rolls (slow rolls and hesitation rolls)
 - ii) Flick rolls (positive and negative)

4.3.3.5. Versatility

Each sequence must contain at least one Tail Slide (Family 6) and one complete 360° Rolling Turn (Family 2).

4.3.3.6. Sequence Submission

- a) Not later than 48 hours before the start of Programme P2, each competitor must submit a computer file for the programme on a CD or memory card, in an accepted software format, to the Contest Director for verification of compliance with the relevant Rules. The file must contain completed pages for the three Forms described below. Currently acceptable file formats are Microsoft Visio using Aresti software and Olan.
- b) Form 'A' will show all symbols, catalogue reference numbers and coefficients.
- c) Form 'B' will show the continuous sequence of the programme as it would be flown with the wind blowing from right to left, plus a table listing the Figure Numbers, their Catalogue Numbers and coefficients.
- d) Form 'C' will show the continuous sequence of the programme as it would be flown with the wind blowing from left to right.
- e) Forms 'B' and 'C' must carry the correct symbol for the wind direction.
- f) The forms will include the conventional symbols, catalogue numbers and coefficients only. No account will be taken of any other writing or notation.

4.3.3.7. Checking

- a) It shall be the duty of the Contest Officials to check the catalogue reference numbers on Form 'A' of each competitor with the symbols on Forms 'B' and 'C', taking the reference numbers in the Aresti System (Condensed) as the basic criteria for deciding compliance with the Rules of this section.



- b) The final responsibility for the correctness and compatibility of Forms 'A', 'B', and 'C' lies with the competitor. Any inaccuracies in the drawing of symbols or in the quoting of coefficients, or the discovery of any cases of repetition of figures, will be referred to the competitor's Team Manager so that the forms may be corrected and resubmitted.
- c) The Contest Officials referred to in this rule are those of the organiser.
- d) In order to avoid possible alteration and resubmission of forms during the contest, competitors may, if they wish, submit their computer files to the organisers for checking not more than one month before the beginning of the contest.

4.3.3.8. Should a competitor disagree with a decision of the Contest Officials concerning his or her Programme, a complaint may be put to the International Jury before flying commences in Programme P2. The approved programmes of all competitors will be published before the end of Programme P1, in sufficient time for complaints and protests to be made. Once the flying of Programme P2 has started, no complaints of any kind will be accepted by the International Jury on any aspect of the composition of a competitor's programme.

4.3.3.9. The organisers will be responsible for reproducing a sufficient number of copies of competitors' programmes to meet the requirements of the contest. One set of copies of Programme P2 (Form B only) to be provided to each competitor and to each Judge prior to the start of this programme.

4.3.3.10. The organisers will be responsible for ensuring that the names of the competitors will not appear on Forms A, B, and C that are given to the Judges.

4.3.3.11. Notwithstanding paragraph 4.3.3.7.b), the judges shall only take into account what is actually shown on the relevant Form B or Form C, depending on the prevailing wind direction. The figures drawn on this Form, their orientation with reference to wind and box axes, shall be definitive. Corrections may be made to Forms B & C, via the Contest Organisation, and presented to the Chief Judge at any time prior to the flight commencing

4.3.4. Programme P3 - The Freestyle Programme

4.3.4.1. The duration of the Freestyle Programme shall be between 3 minutes 30 seconds and 4 minutes. Use of a smoke system is optional.

4.3.4.2. The selection of figures or figure combinations for this programme need not be made with reference to the Aresti System (Condensed); there will be no limitation on the number of figures and the total difficulty coefficient.

4.3.4.3. The start and finish of Programme P3 may be in normal or inverted flight on a horizontal, ascending or descending path, which must not deviate from the horizontal by more than 45 degrees. Competitors may begin or finish their programme at any height between 100 and 1000 metres above aerodrome level.

4.3.4.4. There will be no submission of forms containing the sequence of figures to the Contest Director.

4.3.5. Programme P4 - The Masters Programme

4.3.5.1. The Masters Programme will consist of a combination of compulsory figures drawn from the Aresti System (Condensed) and Freestyle figures of the pilots own choosing. The Freestyle figures chosen by each pilot for this programme need not be made with reference to the Aresti System (Condensed).



- 4.3.5.2. At the first briefing for the WAGAC, the International Jury will supervise the drawing of two sequences, each of four figures taken from the Aresti System (Condensed). These figures will be numbered 1 to 4 and 5 to 8. They will be chosen, from those figures published in Section 6, Part 1, for Unlimited Powered Unknown sequences, as follows:
- a) The eight NACs shall draw lots to determine the order of drawing figures.
 - b) A representative of the NAC that draws lot number 1 will draw figure number 1, NAC number 2 figure 2, and so on. Each figure must be created in such a way that it is safe, flows reasonably from its predecessor, shows sensible energy management, allows the sequence to remain reasonably inside the Performance Zone and is of a complexity appropriate to a World Air Games. These suitability criteria must be agreed, and any relevant objection raised at the time by another NAC resolved, by the supervising Jury Member before the next figure is drawn. Thereafter, no protest of the sequence of figures will be allowed.
- 4.3.5.3. When flying the Programme, pilots shall commence with a Freestyle figure. On exiting this first Freestyle figure, the pilot will then fly Figures 1 to 4 in the published direction. The pilot shall then fly a further Freestyle figure before completing Figures 5 to 8. After exiting Figure 8, each pilot will fly a final Freestyle figure.
- 4.3.5.4. Training for the Masters Programme is not permitted. Competitors violating this regulation will be disqualified.
- 4.3.6. Programme G1 – The Free Programme**
- 4.3.6.1. The Free Programme will not be time limited.
- 4.3.6.2. The Free Programme is selected by competitors according to the Aresti System, Glider Version. Catalogue numbers may be used only once, without exception. The final sum of figure coefficients must be at least 230K. There is no limit to the number of figures that can be flown.
- 4.3.6.3. The beginning of the Free Programme can be in normal or inverted horizontal flight, but must be finished in normal horizontal flight.
- 4.3.6.4. The composition of figures, together with the forms used, their checking and handling, will be the same as for powered aircraft described in the paragraphs dealing with Programme P2. There are no versatility requirements for this programme.
- 4.3.7. Programme G2 – The Precision Programme**
- 4.3.7.1. The Precision Programme will not be time limited.
- 4.3.7.2. Each pilot shall select one figure from the list of unknown figures listed in Sporting Code Section 6, Part 2 (Chapter 9). Procedures for the selection of figures shall follow those described in Sporting Code Section 6, Part 2, Paragraph 4.3.3.
- 4.3.7.3. The International Jury, assisted by the Chief Judge, will choose at least six (6) of these figures to compose the programme. They may also add one starting figure and/or one closing figure to make a total of eight (8) figures. The total figure K shall lie between 185K and 200K.
- 4.3.8. Programmes G3 and G4 – The Artistic Programmes**
- 4.3.8.1. The Artistic Programmes will not be time limited, and the Upper limit for starting the programme will be 1200m. Otherwise, it will be as described for powered aircraft in paragraph 4.3.4. Use of a smoke system shall be allowed at each pilot's discretion.
- 4.3.8.2. In Programme G4, pilots may repeat the sequence flown in Programme P3 or may make changes, as they wish.



5. REGULATIONS FOR THE EVALUATION OF COMPETITION FLIGHTS

5.1. Evaluation Of The Performance

5.1.1. Judges

- 5.1.1.1. Each programme of WAGAC will be marked by the Judges using a standardised system.
- 5.1.1.2. Where the majority decision of the Panel of Judges is required, in a case of disagreement about the penalisation of the flight of a competitor, the Chief Judge shall have a casting vote in the event of a tie.

5.1.2. Marks for Aresti-Based Figures

- 5.1.2.1. The Judges will independently assess the quality of each figure and its components as performed in the sequences for Programmes P1, P2, the compulsory elements of P4, G1 and G2, marking with numbers from 0 to 10, in intervals of 0.5. A Hard Zero (HZ) mark will be awarded if the figure is incorrect or missing.
- 5.1.2.2. Judging and scoring of these figures shall be in accordance with the relevant paragraphs of Sporting Code Section 6, Parts 1 and 2 for powered and glider aircraft respectively.

5.1.3. Marking of Positioning

- 5.1.3.1. If an electronic, radar or radio-controlled tracking instrument is operated, the position of the aircraft must be recorded from the signalling of the start of the sequence to the finish. This recording will only be reviewed to confirm Deadline infringements.
- 5.1.3.2. The positioning mark will be given by the Board of Judges.
- 5.1.3.3. Because the rear boundary of the Performance Zone is not marked, infringements of the performance zone will not be recorded. The K factor accorded to positioning marks will be as shown in the following table.

Programmes	No Infringements Recorded
P1, P2, P4	K = 40
P3	K = 80
G1, G2	K = 15
G3, G4	K = 80

5.1.4. Marking of Freestyle Programmes

- 5.1.4.1. Programmes P3, G3 and G4 (Freestyle Programmes) will be marked under 3 headings as in the table below.

Criteria	K-factor
Technical Merit	160
Artistic Impression	160
Positioning	80
Total	400



5.1.5. Marking of Masters Programme P4

- 5.1.5.1. Grading and scoring of the compulsory elements of the Masters Programme P4 will be as for the Aresti-based Programmes P1 and P2. In addition, grades will be awarded by each judge for each pilot using the criteria and K factors in the table below. The Freestyle elements will be judged as a whole, not separately.

Criteria	K-factor
Technical Merit	60
Artistic Impression	60
Total	120

5.1.6. Official Video Recording

- 5.1.6.1. An official video recording from the Judges' position must be made of every individual competition flight in a WAGAC. The official recording must be available to the International Jury to assist their decision on any protests regarding the evaluation of a competition flight. The recording shall not be available to competitors except in conjunction with the International Jury's decisions on protests and with their agreement. After the completion of the championships, the recording may be released by the organisers for use in training.
- 5.1.6.2. The official recording shall also be available to the Chief Judge and the Board of Judges to assist their discussions on matters of fact.
- 5.1.6.3. Organisers must provide quality equipment with qualified operators to insure useful information is provided to the judges and International Jury for their decisions.

5.2. Penalty Points Deductible From Total (Averaged) Scores

5.2.1. Time Limits for the Programmes

- 5.2.1.1. Any deviation, shorter or longer, from the time allowed for Programme P3, will incur 10 penalty points for each second or fractional part of a second of deviation.
- 5.2.1.2. Failure of a competitor to observe precisely Rule 4.2.6.2 in Programmes P2 or P3 (signalling start and finish) will result in a penalty of 150 points. To check and decide on this is the responsibility of the Chief Judge assisted by the timekeepers.

5.2.2. Infringement of Height Limits

- 5.2.2.1. For every obvious and visually recognised infringement of the lower height limit during the performance of any Programme, the competitor will be given 250 penalty points; an additional 250 penalty points will be given for each figure flown completely below the lower height limit; for an infringement of the upper height limit 50 penalty points are given. A competitor flying lower than 50 metres will be disqualified (from the current programme) for causing a dangerous situation.

5.2.3. Infringements of the Performance Zone and Deadline

- 5.2.3.1. Infringements of the Performance Zone will not be measured or penalised in any of the programmes. Infringements of the Deadline shall result in disqualification of the pilot from the programme. In programmes when figures are graded individually, A Judge may deduct 0.5 to 1.0 from the mark for each figure badly visible due to its unreasonably long distance away from the judging position.

5.2.4. Flight Regulations and Dangerous Flying

- 5.2.4.1. Competitors found guilty of violating flight regulations and/or causing a dangerous situation will, on the recommendation of the International Jury, be disqualified by the Contest Director. The Chief Judge may, with the agreement of two-thirds of the Board of Judges, exclude a pilot who is not flying safely or could cause an unsafe situation.

5.2.5. Interruption of a Programme or Addition of Figures

- 5.2.5.1. A competitor will be given penalty points, in accordance with the appropriate tariff, if he or she interrupts his or her programme:

- a) by dipping the wing three (3) times immediately one after the other;
- b) in order to make a change of attitude or direction between two figures (more than 90°);
- c) in order to lose or regain height;

- 5.2.5.2. Following a programme interruption, the competitor must restart his or her programme with the figure

- a) immediately preceding the point of interruption;
- b) in which the interruption occurred;
- c) immediately following the point of interruption

In no case shall a figure that has already received a score (even if zero) prior to a programme interruption be rescored.

- 5.2.5.3. Should the competitor restart his or her programme at any point other than provided for in 5.2.5.2, the competitor will be given additional penalty points in accordance with the appropriate tariff.
- 5.2.5.4. The addition of a figure to a sequence will also result in penalty points, but all subsequent figures correctly flown will be marked. For example, if the additional figure flown is a repeat of the previous figure, the score for the original figure must be retained, even if zero. Under no circumstances should a competitor be allowed to gain an advantage due to this additional figure.

Interruption or Addition	Powered	Glider
Penalty point tariff	150	100

5.2.6. Versatility in Programme P2

Failure to perform any of the mandatory figures in the time allowed for Programme P2 will be penalized by the deduction of 500 points for failure to fly the rolling turn and 250 points for failing to fly the tailslide.

5.3. Penalties And Devaluations Applicable To Aresti Figures In Programmes

These shall be as described in the relevant paragraphs of Sporting Code Section 6, Parts 1 and 2 for powered and glider aircraft respectively.



6. CRITERIA FOR JUDGING AEROBATIC FIGURES

- 6.1.1.1. These shall be as described in the relevant paragraphs of Sporting Code Section 6, Parts 1 and 2 for powered and glider aircraft respectively.



**7. CODE OF PRACTICE FOR THE CHIEF JUDGE AND BOARD OF JUDGES AT
WORLD AIR GAMES AEROBATIC CHAMPIONSHIPS**

- 7.1.1.1. These shall be as described in the relevant paragraphs of Sporting Code Section 6, Parts 1 and 2 for powered and glider aircraft respectively.



8. STATISTICAL METHOD FOR PROCESSING SCORES

8.1. Use of CIVA Fair Play System

8.1.1. All Programmes

8.1.1.1. In these Programmes, the CIVA Fair Play System, as described in Sporting Code Section 6 Part 1, shall be used to process raw judging grades.

8.1.1.2. In view of the smaller number of competing pilots, the second FPS iteration will not be applied.

8.1.2. Programme P4

8.1.2.1. In Programme P4, The Masters Programme, the Freestyle criteria, Technical Merit and Artistic Impression, shall each be treated as a separate figure for FPS purposes. These will effectively be Figures 9 and 10 (after the 8 unknown Aresti figures).

8.1.3. Programmes P3, G3 and G4

8.1.3.1. The aim of the scoring system for these WAG programmes is to give rapid feedback to the media for results purposes. With this in mind, the grading categories have been reduced to 3: Technical Merit, Artistic Impression and Positioning. Grades for these criteria will effectively be treated by FPS as a 3-figure sequence.

8.1.3.2. With 10 pilots and at least 5 judges, grading data for each of the three criteria will consist of at least 50 data points which is acceptable for group data analysis using FPS processes.

8.1.4. Judging Performance Evaluation

8.1.4.1. The performance of judges at WAGAC may be assessed using the FPS Judging Performance processes. The resulting Ranking Indices must be treated with caution, however, because of the small number of pilots when compared to a classic World or Continental Championship.



9. LIST OF FIGURES FOR PROGRAMMES P4 AND G2

- 9.1.1.1. These shall be as described in the relevant paragraphs of Sporting Code Section 6, Parts 1 and 2 for powered and glider aircraft respectively.

10. KNOWN COMPULSORY PROGRAMMES

10.1. Programme P1

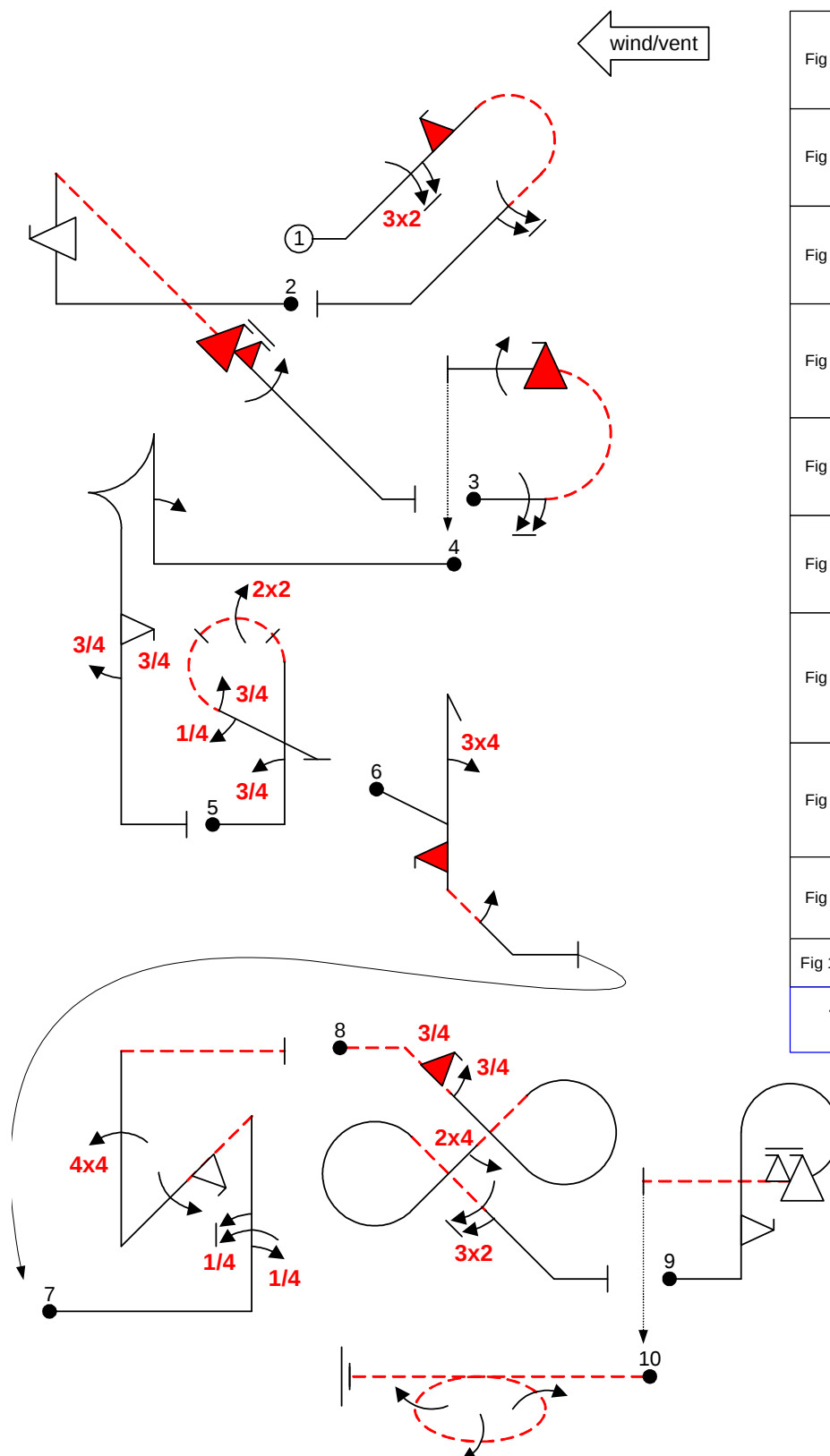


Fig 1	8.18.1 9.2.2.6 9.10.2.2 9.1.4.6	14 14 15 10	53
Fig 2	1.18.1 9.9.1.4 9.10.4.6 9.1.4.4	13 15 16 8	52
Fig 3	7.3.1 9.1.3.6 9.10.3.4 9.1.3.4	8 10 13 8	39
Fig 4	6.1.1 9.1.5.3 9.9.5.3 9.2.3.4 9.1.1.2	15 6 11 9 8	49
Fig 5	8.40.1 9.1.1.3 9.1.3.3 9.1.3.1	14 10 6 2	32
Fig 6	5.5.1 9.4.1.3 9.10.5.2 9.1.4.2	20 12 13 4	49
Fig 7	1.38.1 9.9.9.2 9.1.4.4 9.1.1.1 9.1.1.5 9.4.1.4	20 13 8 6 14 15	76
Fig 8	7.38.4 9.10.4.3 9.1.4.3 9.4.4.2 9.2.4.6	24 13 6 5 12	60
Fig 9	9.9.1.2 8.39.1 9.9.3.6	15 12 14	41
Fig 10	2.9.4	44	44
Total K = 495			



11. RECORD OF AMENDMENTS

Version Number	Date Issued
2009-1	Original
2009-2	6 November 2008