

## Section G – Sail Definitions

### Subsection A – Trilateral Sails

Definitions relating to **sails** with only three **sail edges**:

“MAINSAIL” also applies to **foremast sail** and **mizzen**.

“HEADSAIL” also applies to “jib” and “genoa”.

“SPINNAKER” also applies to “gennaker”.

#### G.1 GENERAL SAIL TERMS

##### G.1.1 Sail

An item of equipment, used to propel the **boat**. It includes any of the following added parts:

**sail reinforcements**

**batten pockets**

**windows**

**stiffening**

**tabling**

**sail edge** ropes and wires

**attachments**

other parts as permitted by **class rules**.

##### G.1.2 Set Flying

A **sail** set with no **sail edge** attached to the **rig**.

##### G.1.3 Sail Types

(a) MAINSAIL

A **sail** with the **luff** attached to the **mainmast spar**. The lowest of the **sails** if more than one **sail** with the **luff** set to that **spar**.

(b) FOREMAST SAIL

A **sail** with the **luff** attached to the **foremast spar**. The lowest of the **sails** if more than one **sail** with the **luff** set to that **spar**.

(c) MIZZEN

A **sail** with the **luff** attached to the **mizzenmast spar**. The lowest of the **sails** if more than one **sail** with the **luff** set to that **spar**.

(d) HEADSAIL

A **sail** set forward of the mast **spar**, or of the foremost mast **spar** if more than one mast.

**G.1.4 Sail Construction**

(a) BODY OF THE SAIL

The **sail** excluding the areas where parts are added as per G.1.1.

(b) PLY

A sheet of sail material which may be made up of a number of layers.

(c) SOFT SAIL

A **sail** where the **body of the sail** is capable of being folded flat in any direction without damaging any **ply** other than by creasing.

(d) WOVEN PLY

A **ply** which, when torn, can be separated into fibres without leaving evidence of a film.

(e) LAMINATED PLY

A **ply** made up of more than one layer.

(f) SINGLE-PLY SAIL

A **sail**, except at **seams**, where all parts of the **body of the sail** consist of only one **ply**.

(g) DOUBLE LUFF SAIL

A **sail** with more than one **luff**, or a **sail** passing around a **spar** and attached back on itself.

(h) SEAM

Overlap where two or more **ply** forming the **body of the sail** are joined.

(i) DART

An overlap formed at a **sail edge** by overlapping the **ply** edges of a cut in the **body of the sail**.

(j) TUCK

Overlap where a **ply** is folded and joined.

(k) BATTEN POCKET

Additional **ply** to form a pocket for a batten.

(l) SAIL OPENING

Any opening other than openings created by **attachments** or **batten pockets**.

(m) WINDOW

A predominantly transparent **ply** in the **body of the sail**.

(n) STIFFENING

Corner boards and battens.

(o) ATTACHMENTS

cringles  
straps  
hanks  
slides  
adjustment eyes  
adjustment points  
reefing eyes  
reefing points, and  
blocks and their fastenings.

See H.5.3.

(p) SAIL EDGE SHAPE

The shape of a **sail edge** as a comparison with a straight line between

**corner points** or,

in the case of a **leech** other than of a gennaker or spinnaker, between the **clew point** and the **aft head point**.

## G.2 SAIL EDGES

### G.2.1 Foot

The bottom edge.

### G.2.2 Leech

The aft edge.

### G.2.3 Luff

The fore edge.

### G.2.4 Sail Leech Hollow

Concavity in the shape of a **leech** between

adjacent **batten pockets**, or

a **batten pocket** and the adjacent **corner point**, or

in the case of a **mainsail**, **foremast sail**, **mizzen** or a **headsail** other than a spinnaker or a gennaker, between the **aft head point** and the adjacent **batten pocket**.

## G.3 SAIL CORNERS

### G.3.1 Clew

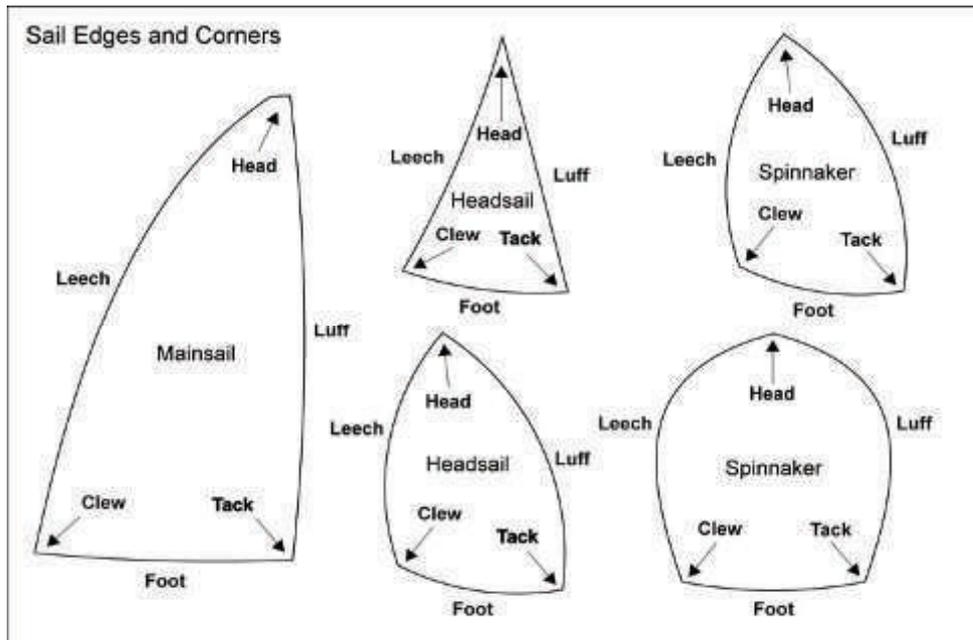
The region where the **foot** and the **leech** meet.

### G.3.2 Head

The region at the top.

### G.3.3 Tack

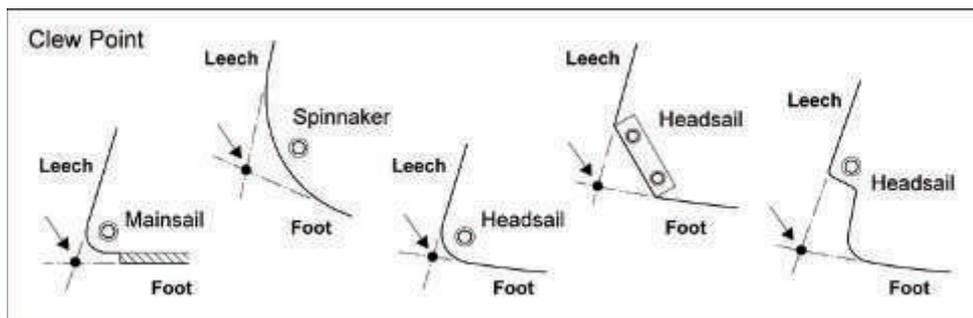
The region where the **luff** and the **foot** meet.



## G.4 SAIL CORNER MEASUREMENT POINTS

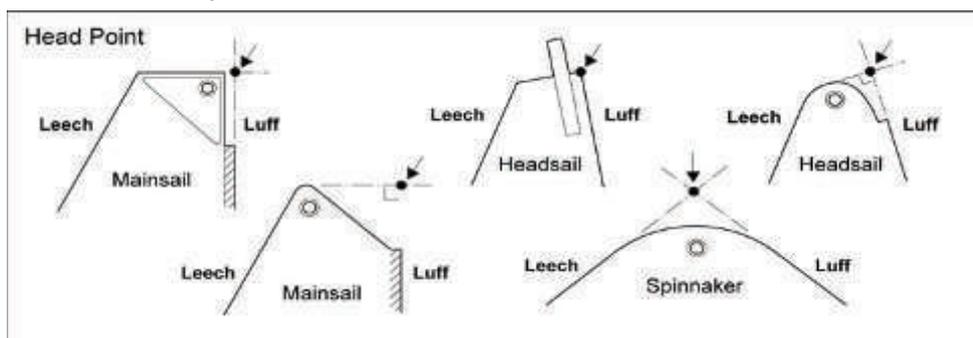
### G.4.1 Clew Point

The intersection of the **foot** and the **leech**, each extended as necessary.



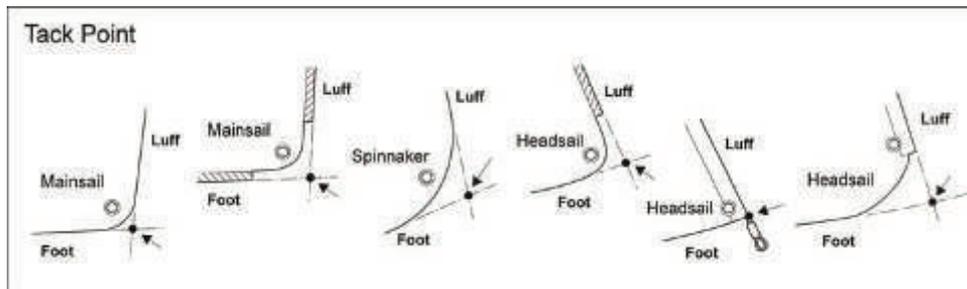
### G.4.2 Head Point

- MAINSAIL: The intersection of the **luff**, extended as necessary, and the line through the highest point of the **sail** at 90° to the **luff**.
- HEADSAIL: The intersection of the **luff**, extended as necessary, and the line through the highest point of the **sail**, excluding **attachments**, at 90° to the **luff**.
- SPINNAKER: The intersection of the **luff** and the **leech**, extended as necessary.



**G.4.3 Tack Point**

The intersection of the **foot** and the **luff**, each extended as necessary.



**G.5 OTHER SAIL MEASUREMENT POINTS**

**G.5.1 Quarter Leech Point**

The point on the **leech** equidistant from the **half leech point** and the **clew point**.

**G.5.2 Half Leech Point**

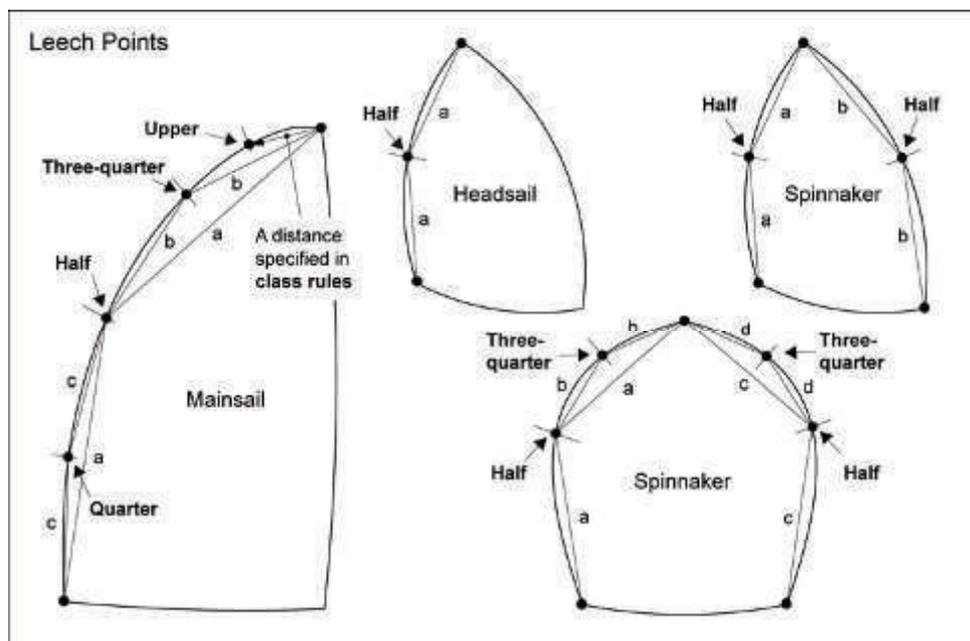
The point on the **leech** equidistant from the **head point** and the **clew point**.

**G.5.3 Three-Quarter Leech Point**

The point on the **leech** equidistant from the **head point** and the **half leech point**.

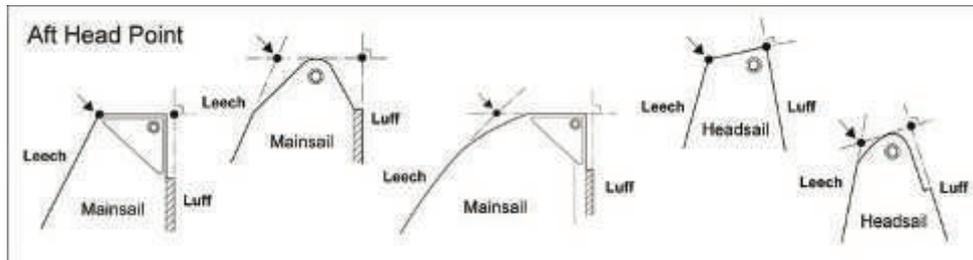
**G.5.4 Upper Leech Point**

The point on the **leech** a specified distance from the **head point**.



**G.5.5 Aft Head Point**

**MAINSAIL** and **HEADSAIL**: The intersection of the **leech** extended as necessary and the line through the **head point** at 90° to the **luff**.



**G.5.6 Quarter Luff Point**

The point on the **luff** equidistant from the **half luff point** and the **tack point**.

**G.5.7 Half Luff Point**

The point on the **luff** equidistant from the **head point** and the **tack point**.

**G.5.8 Three-Quarter Luff Point**

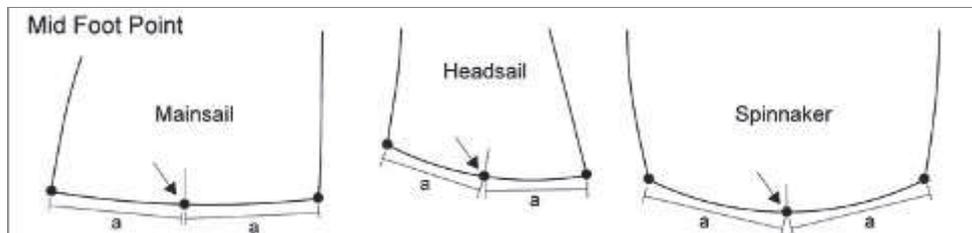
The point on the **luff** equidistant from the **head point** and the **half luff point**.

**G.5.9 Upper Luff Point**

The point on the **luff** a specified distance from the **head point**.

**G.5.10 Mid Foot Point**

The point on the **foot** equidistant from the **tack point** and the **clew point**.



**G.6 SAIL REINFORCEMENT**

**G.6.1 Primary Reinforcement**

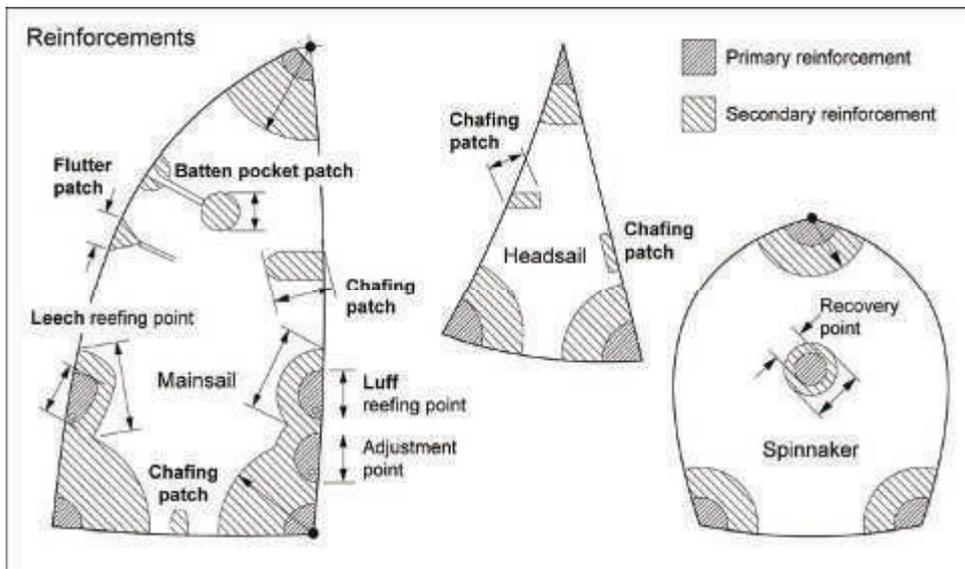
An unrestricted number of additional layers of **ply** of permitted material:

- at a corner
- at a adjustment point
- at a reefing point adjacent to the **luff**
- at a reefing point adjacent to the **leech**
- at a **sail** recovery point
- where permitted by the **class rules**

**G.6.2 Secondary Reinforcement**

Not more than two additional layers of **ply** of permitted material each not thicker than the maximum thickness of the **ply** of the **body of the sail**:

- at a corner
- at an adjustment point
- at a reefing point adjacent to the **luff**
- at a reefing point adjacent to the **leech**
- at a **sail** recovery point
- to form a **flutter patch**
- to form a **chafing patch**
- to form a **batten pocket patch**
- where permitted by the **class rules**



**G.6.3 Tabling**

Additional **ply** and/or folded **ply** overlap(s) at a **sail edge**.

**G.6.4 Batten Pocket Patch**

**Secondary reinforcement** at an end of a **batten pocket**.

**G.6.5 Chafing Patch**

**Secondary reinforcement** where a **sail** can touch a **spreader**, stanchion, **shroud** or **spinnaker pole**.

**G.6.6 Flutter Patch**

**Secondary reinforcement** on the **leech** or the **foot** at the end of a **seam**.

## G.7 PRIMARY SAIL DIMENSIONS

See H.5.

### G.7.1 Foot Length

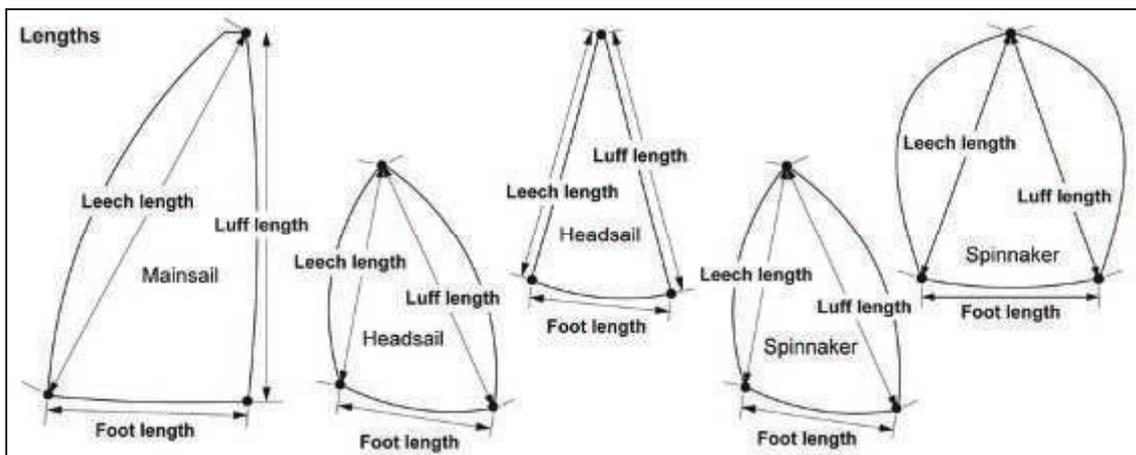
The distance between the **clew point** and the **tack point**.

### G.7.2 Leech Length

The distance between the **head point** and the **clew point**.

### G.7.3 Luff Length

The distance between the **head point** and the **tack point**.



### G.7.4 Quarter Width

- (a) MAINSAIL and HEADSAIL: The shortest distance between the **quarter leech point** and the **luff**.
- (b) SPINNAKER: The distance between the **quarter luff point** and the **quarter leech point**.

### G.7.5 Half Width

- (a) MAINSAIL and HEADSAIL: The shortest distance between the **half leech point** and the **luff**.
- (b) SPINNAKER: The distance between the **half luff point** and the **half leech point**.

### G.7.6 Three-Quarter Width

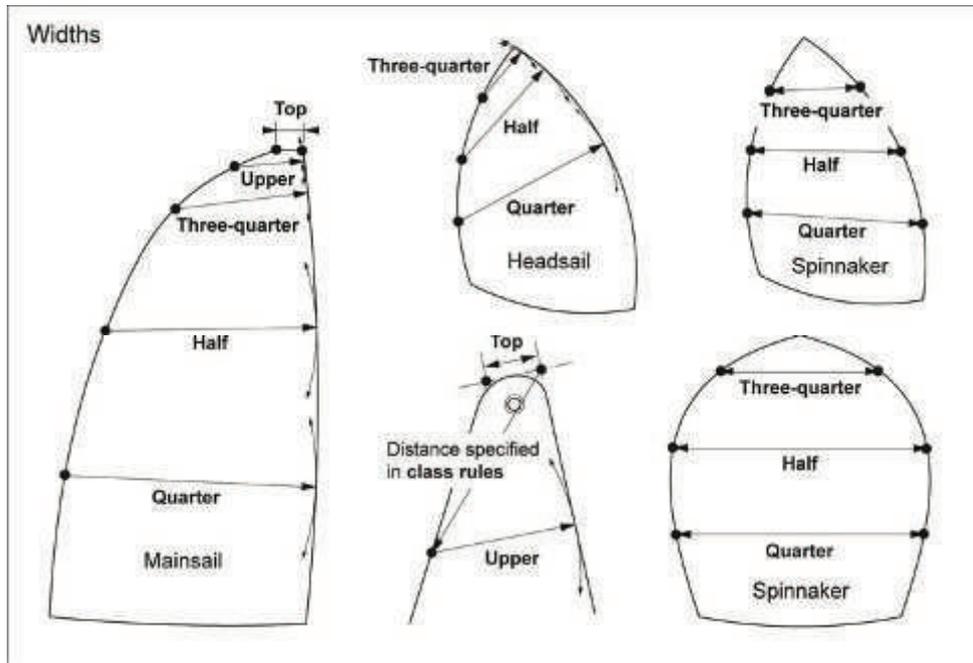
- (a) MAINSAIL and HEADSAIL: The shortest distance between the **three-quarter leech point** and the **luff**.
- (b) SPINNAKER: The distance between the **three-quarter luff point** and **three-quarter leech point**.

### G.7.7 Upper Width

- (a) MAINSAIL and HEADSAIL: The shortest distance between the **upper leech point** and the **luff**.
- (b) SPINNAKER: The distance between the **upper luff point** and the **upper leech point**.

**G.7.8 Top Width**

- (a) MAINSAIL and HEADSAIL: The distance between the **head point** and the **aft head point**.

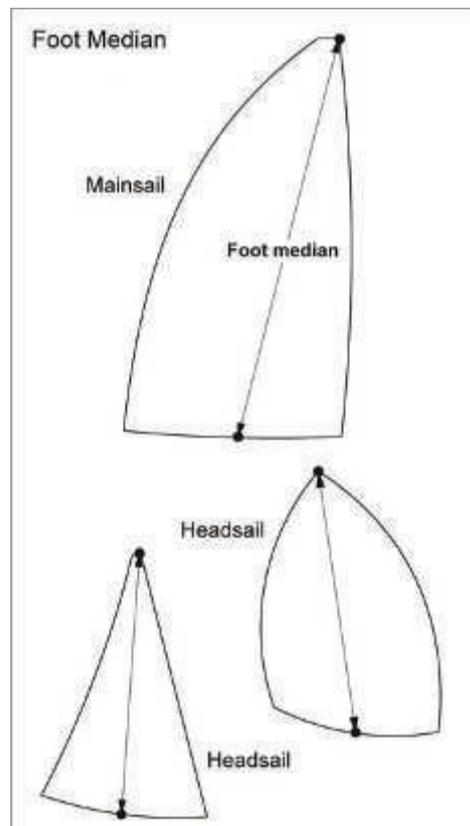
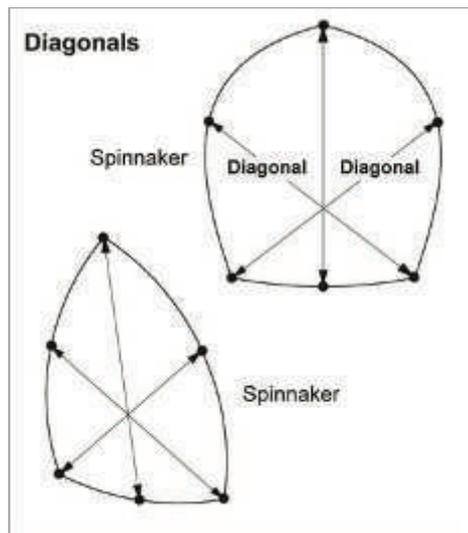


**G.7.9 Diagonals**

- (a) CLEW DIAGONAL: The distance between the **clew point** and the **half luff point**.
- (b) TACK DIAGONAL: The distance between the **tack point** and the **half leech point**.

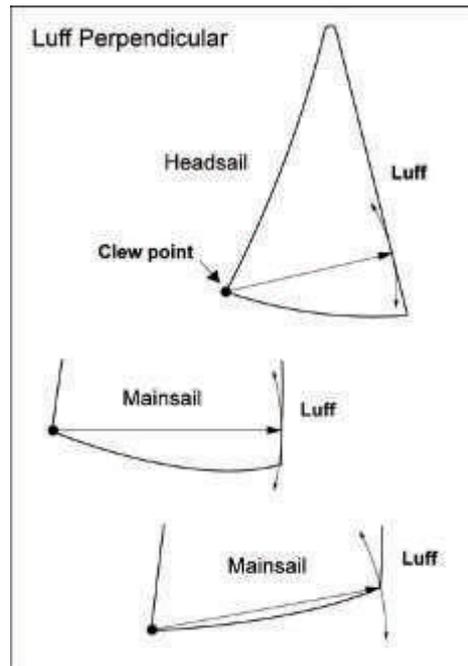
**G.7.10 Foot Median**

The distance between the **head point** and the **mid foot point**.



**G.7.11 Luff Perpendicular**

The shortest distance between the **clew point** and the **luff**.



**G.8 OTHER SAIL DIMENSIONS**

See H.5.

**G.8.1 Batten Pocket Length**

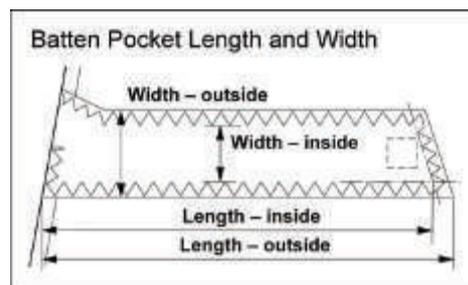
(a) **INSIDE:** The greatest distance between the **sail edge** and the internal extreme end of the **batten pocket**, measured parallel to the pocket centreline. The effect of any elastic or other retaining device and any local widening for batten insertion shall be ignored.

(b) **OUTSIDE:** The greatest distance between the **sail edge** and the external extreme end of the **batten pocket**, measured parallel to the pocket centreline. The effect of any local widening for batten insertion shall be ignored.

**G.8.2 Batten Pocket Width**

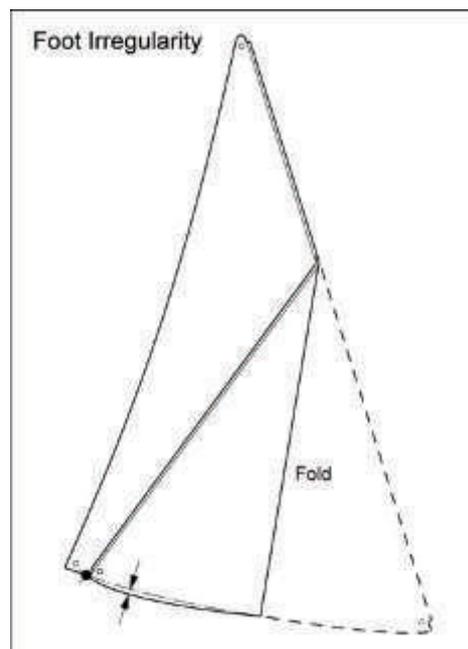
(a) **INSIDE:** The greatest distance between inside edges of the **batten pocket** measured at 90° to pocket centreline. Local widening for batten insertion shall be ignored.

(b) **OUTSIDE:** The greatest distance between the outside edges of the **batten pocket** measured at 90° to the pocket centreline. Local widening for batten insertion shall be ignored.



**G.8.3 Foot Irregularity**

The maximum distance between the edges of the **foot** when first the **tack point** and then the **clew point** are superimposed on any part of the **foot**.



**G.8.4 Reinforcement Size**

(a) **AT A CORNER:** The greatest distance measured from the **sail corner measurement point**.

(b) **TABLING WIDTH:** The width of **tabling** measured at 90° to the **sail edge**.

(c) **ELSEWHERE:** The greatest dimension of the **sail reinforcement**.

**G.8.5 Seam Width**

The width of a **seam** measured at 90° to the **seam**.

**G.8.6 Dart Width**

The width of a **dart** measured at 90° to the **dart** centreline.

**G.8.7 Tuck Width**

The width of a **tuck** measured at 90° to the **tuck** centreline.

**G.8.8 Attachment Size**

(a) AT A CORNER OR AN EDGE

(i) LENGTH

**AT THE HEAD:** The dimension from the **head point** along the **luff** or its extension to a line through the highest point of the **attachment** at 90° to the **luff**.

**AT THE TACK:** The dimension from the **tack point** along the **luff** or its extension to a line through the lowest point of the **attachment** at 90° to the **luff**.

**AT THE CLEW:** The greatest dimension from the **clew point**.

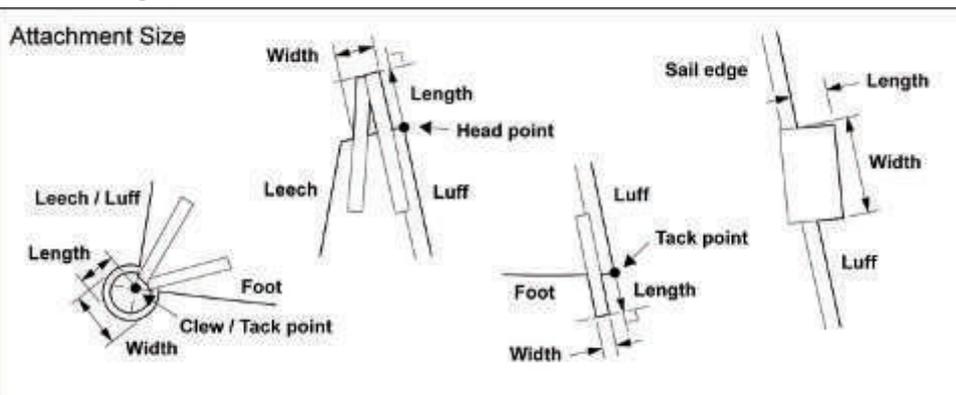
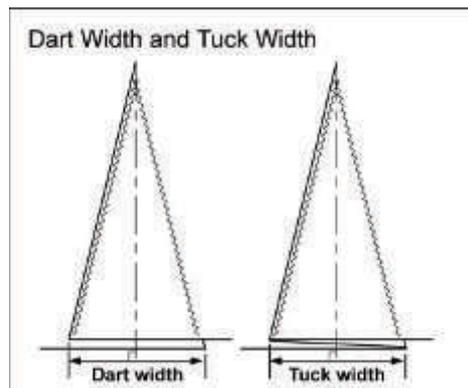
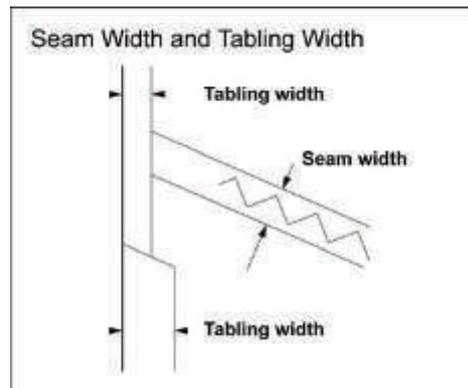
**AT AN EDGE:** The greatest dimension from the **sail edge**.

(ii) WIDTH

The greatest dimension measured perpendicular to the length.

(b) ELSEWHERE

The greatest dimension of the **attachment**.

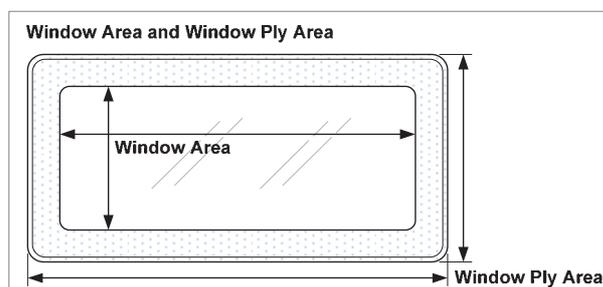


**G.8.9 Window Ply Area**

The area of the **window ply**.

**G.8.10 Window Area**

The **window ply area** excluding **seams**.



## Subsection B – Additions for Other Sails

The following definitions for non-trilateral sails are additional to or vary those given in Subsection A of this Section.

### G.2 SAIL EDGES

#### G.2.5 Head

The top edge.

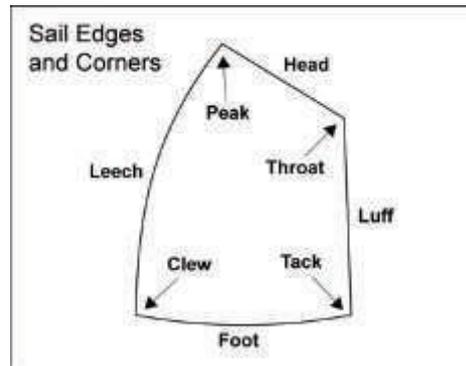
### G.3 SAIL CORNERS

#### G.3.4 Peak

The region where the **head** and the **leech** meet.

#### G.3.5 Throat

The region where the **head** and the **luff** meet.



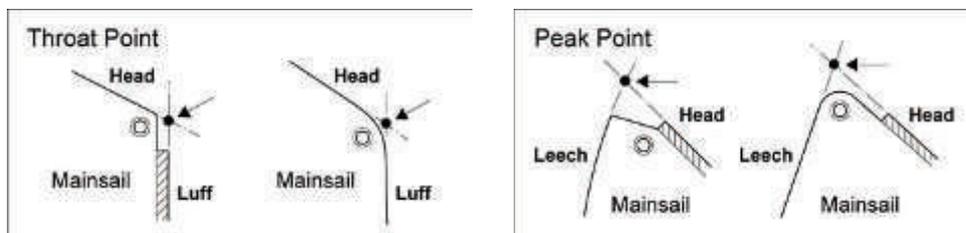
### G.4 SAIL CORNER MEASUREMENT POINTS

#### G.4.4 Peak Point

The intersection of the **head** and **leech**, each extended as necessary.

#### G.4.5 Throat Point

The intersection of the **head** and **luff**, each extended as necessary.



### G.5 OTHER SAIL MEASUREMENT POINTS

#### G.5.2 Half Leech Point

The point on the **leech** equidistant from the **peak point** and the **clew point**.

#### G.5.3 Three-Quarter Leech Point

The point on the **leech** equidistant from the **peak point** and the **half leech point**.

#### G.5.4 Upper Leech Point

The point on the **leech** a specified distance from the **peak point**.

## G.7 PRIMARY SAIL DIMENSIONS

See H.5.

### G.7.2 Leech Length

The distance between the **peak point** and the **clew point**.

### G.7.3 Luff Length

The distance between the **throat point** and the **tack point**.

### G.7.9 Diagonals

(a) CLEW DIAGONAL

The distance between the throat point and the clew point.

### G.7.10 Foot Median

The distance between the **peak point** and the **mid foot point**.

### G.7.12 Head Length

The distance between the **peak point** and the **throat point**.

