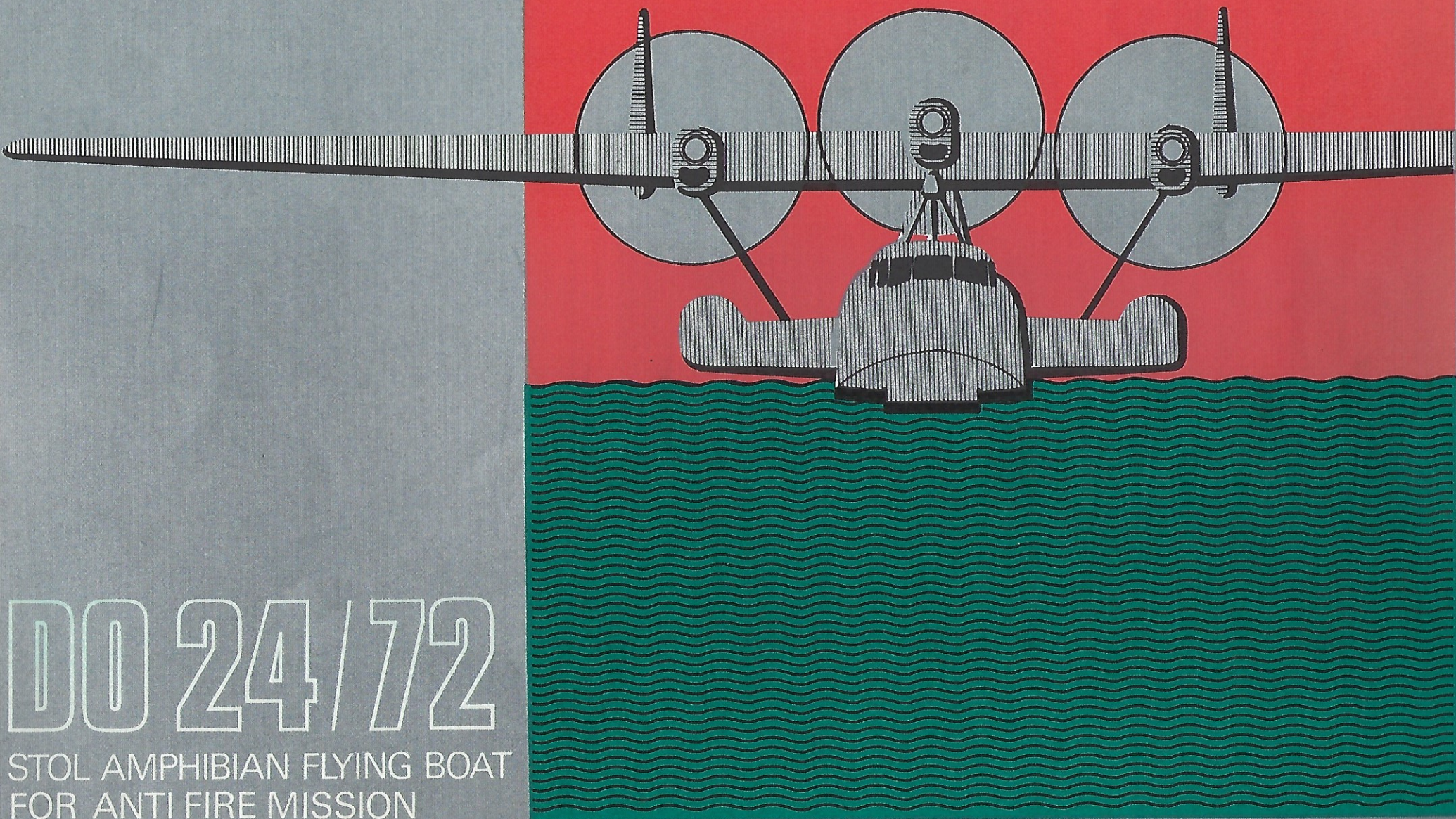


 **DORNIER**



**DO 24/72**

STOL AMPHIBIAN FLYING BOAT  
FOR ANTI FIRE MISSION

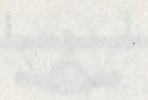


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# STOL AMPHIBIAN FLYING BOAT FOR ANTI FIRE MISSION

# DO 24/72

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DORNIER GMBH FRIEDRICHSHAFEN, FEDERAL REPUBLIC OF GERMANY

APRIL 1974

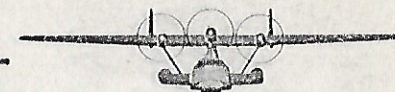
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GENERAL DRAWING

Do 24/72 with 3753 21A

## DORNIER Do 24/72 IN ANTI FIRE MISSION

### Introduction

The Dornier Do 24/72 amphibian flying boat incorporates the experience gained with its predecessor, the Dornier Do 24 T flying boat, which was successfully flown in SAR maritime patrol missions during World War II even under extremely unfavourable conditions (See state 4-5).

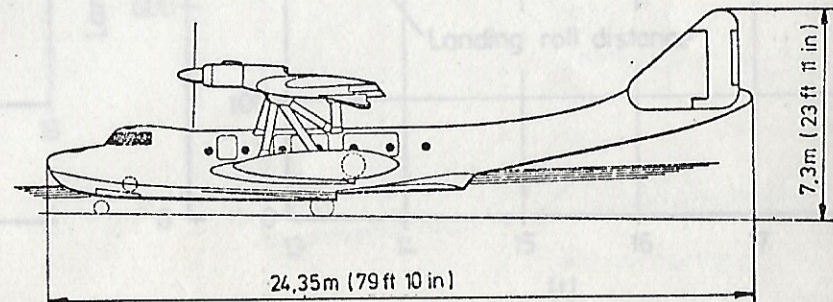
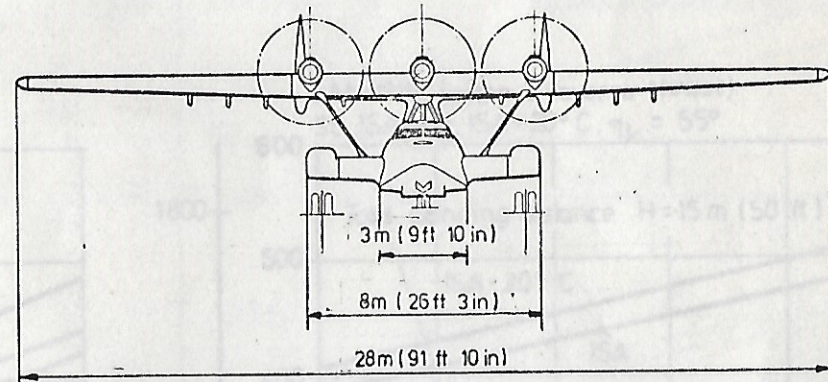
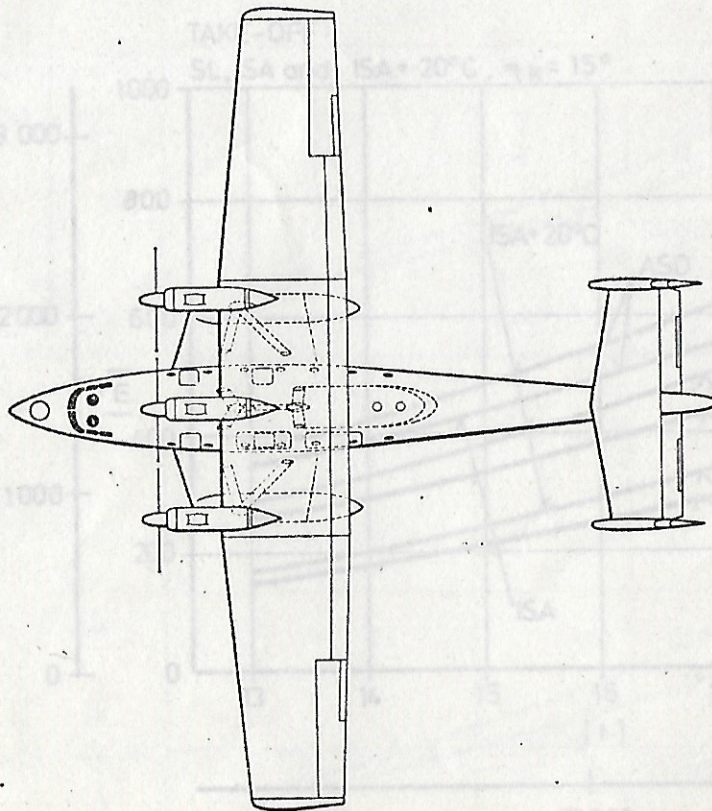
In the following, it is illustrated how the Do 24/72 can be used in Anti Fire Mission.

A separate brochure describes in greater detail the Do 24/72 and its use in SAR and various transport and utility missions.



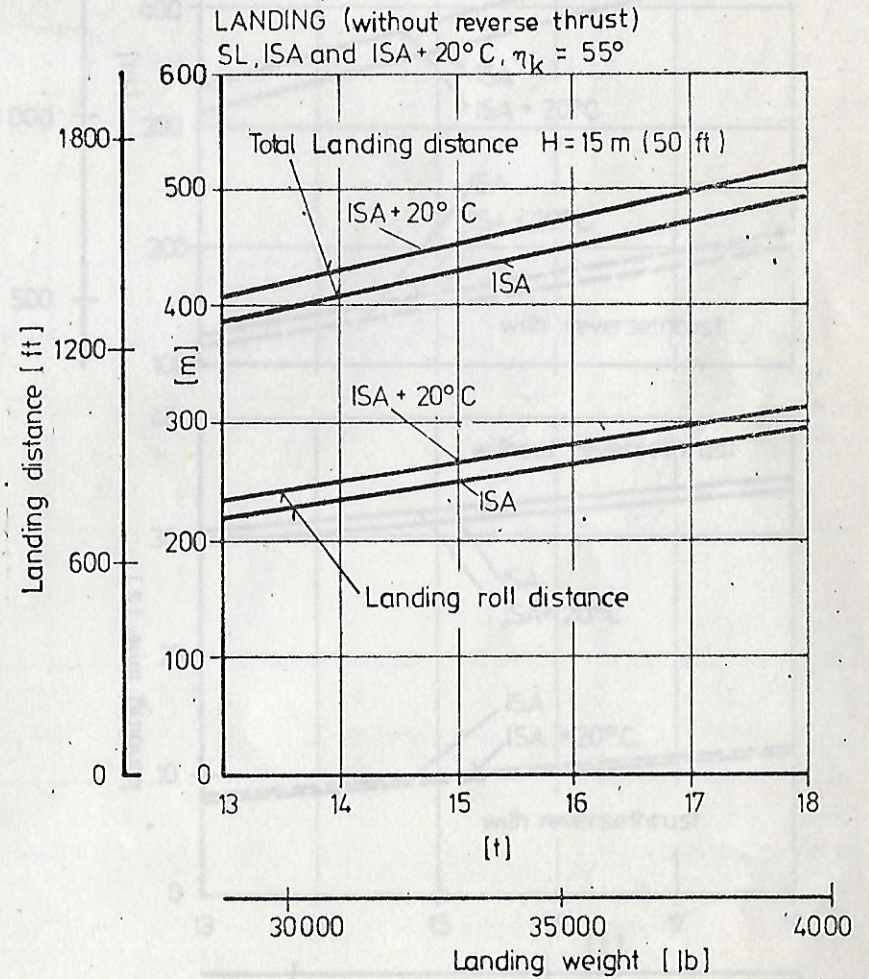
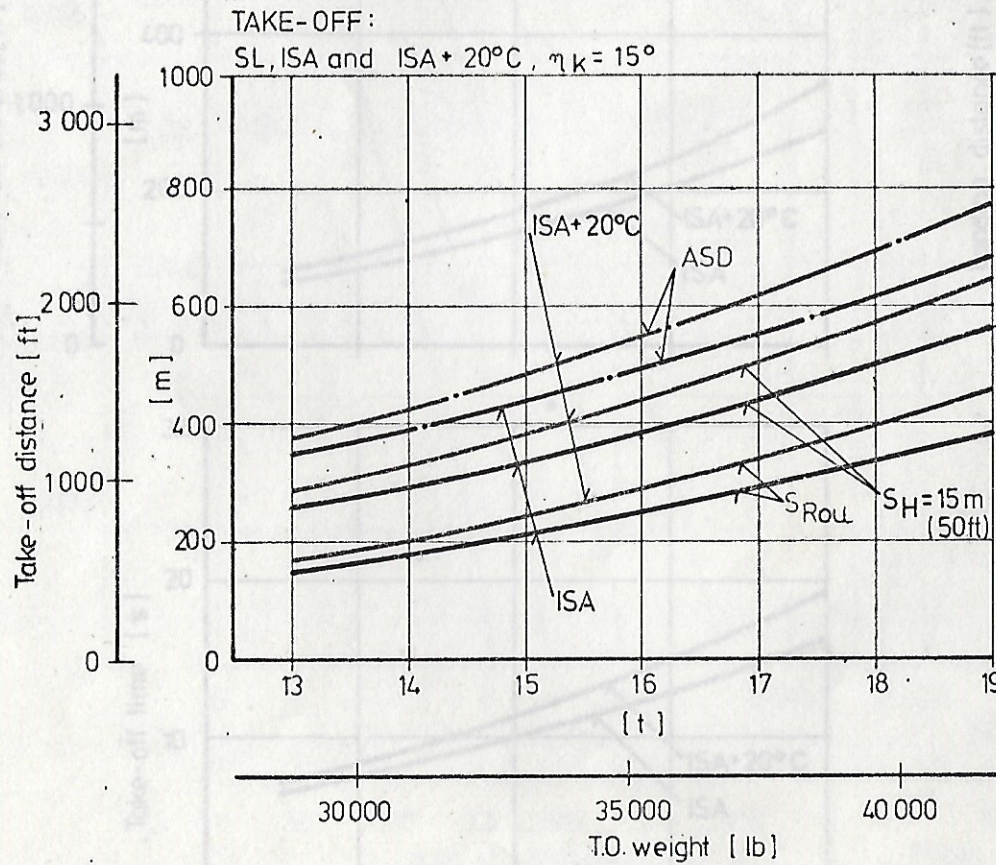
# GENERAL DRAWING

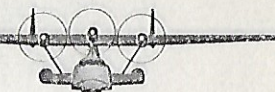
Do 24/72 with 3T 53 21A





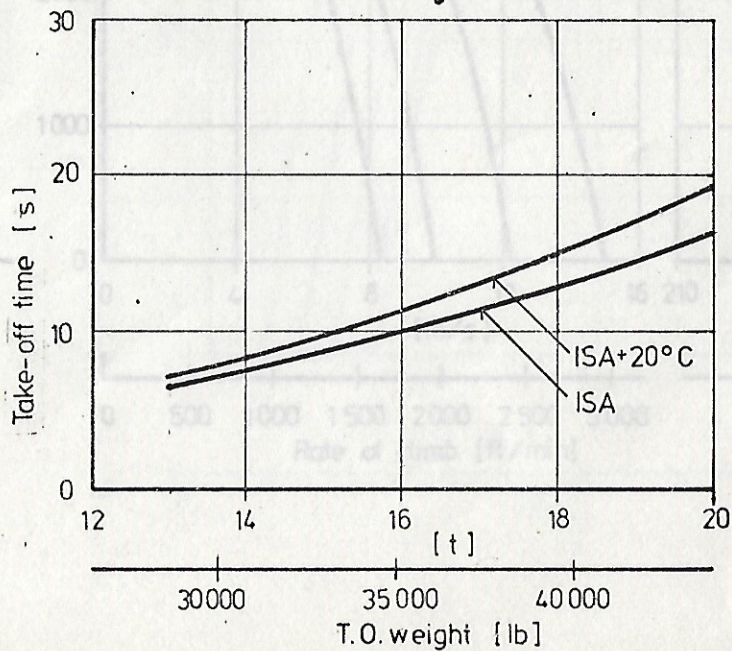
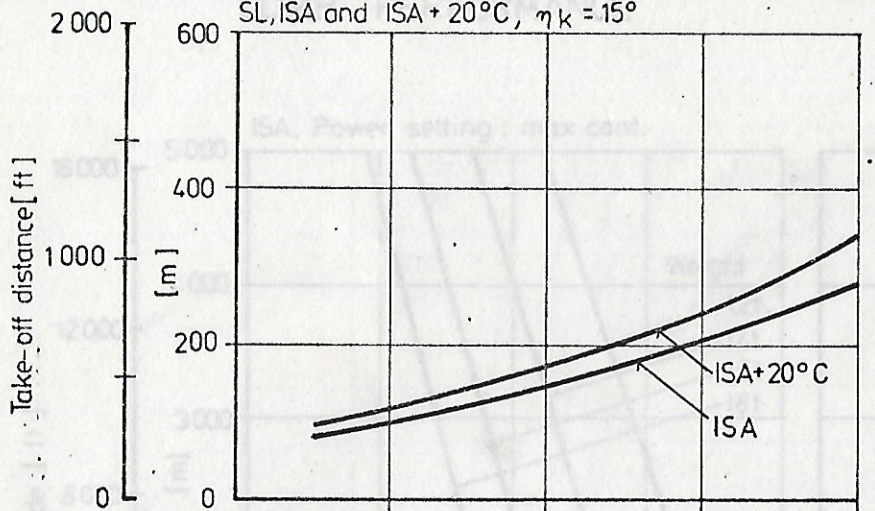
TAKE-OFF AND LANDING PERFORMANCE ON LAND



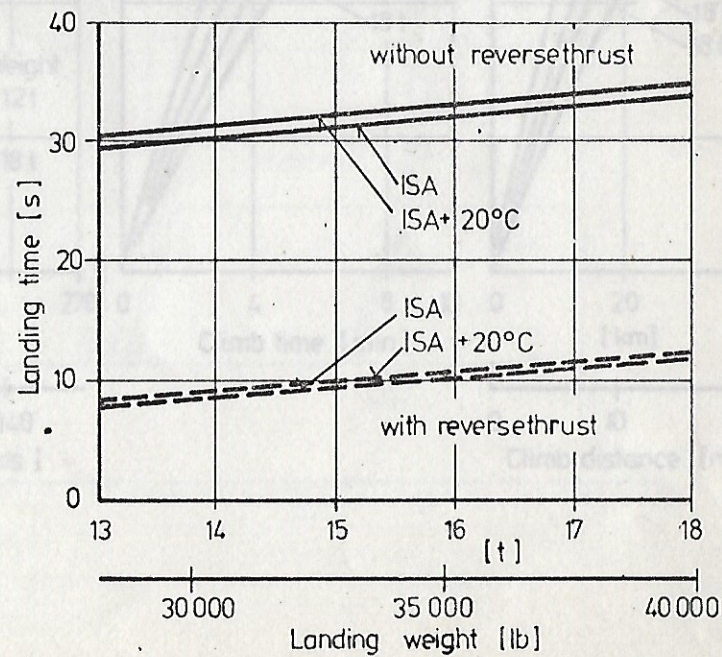
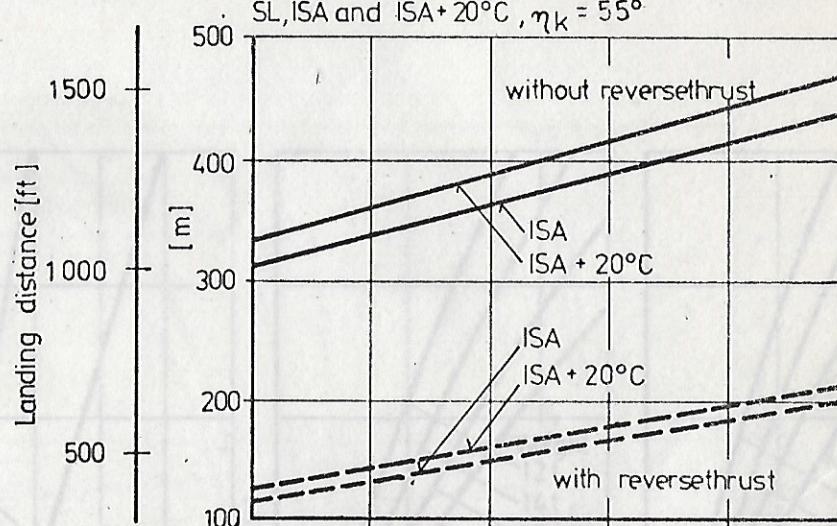


### TAKE-OFF AND LANDING PERFORMANCE ON WATER

TAKE-OFF:  
SL, ISA and ISA + 20°C,  $\eta_k = 15^\circ$

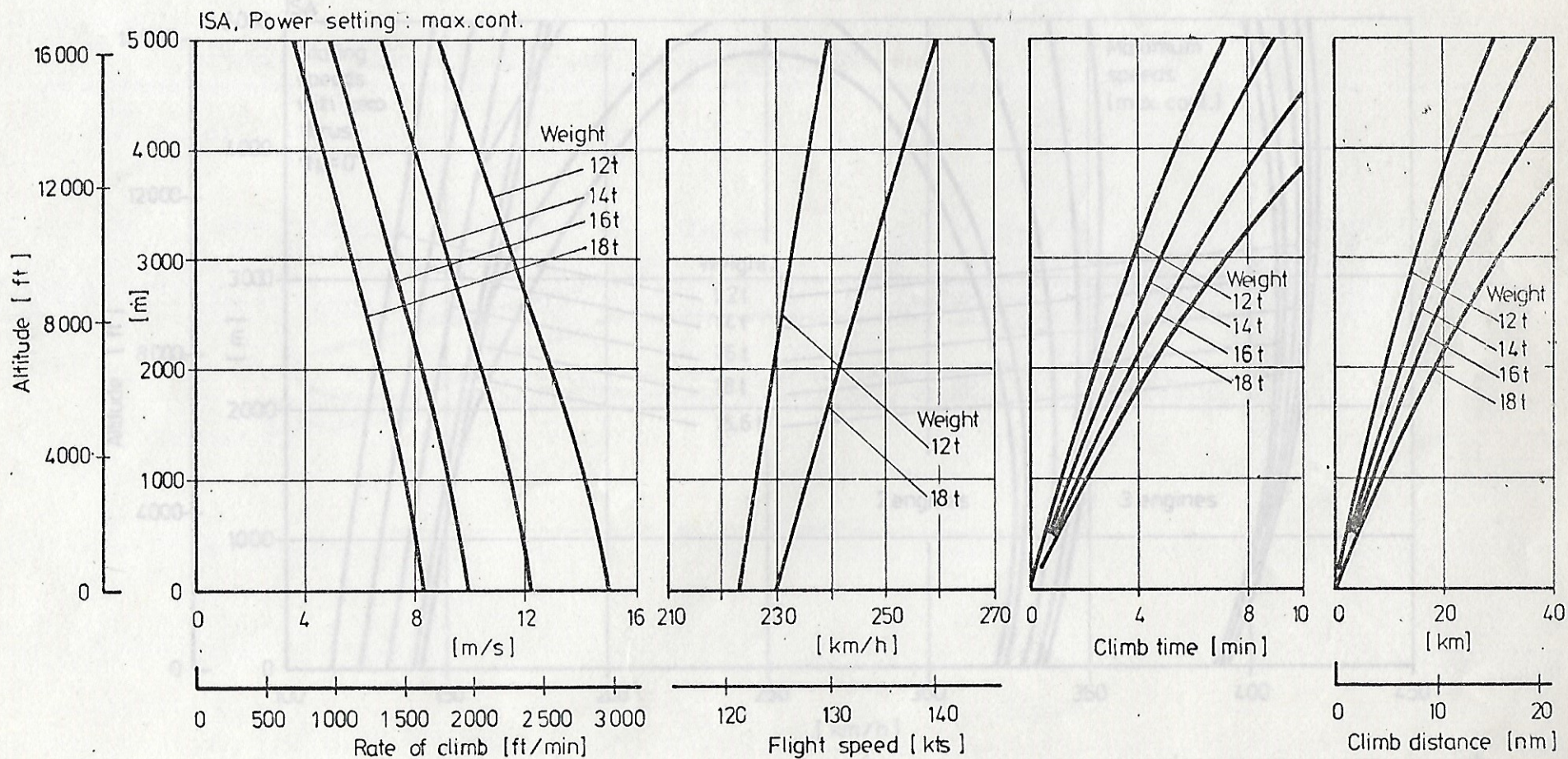


LANDING:  
SL, ISA and ISA + 20°C,  $\eta_k = 55^\circ$





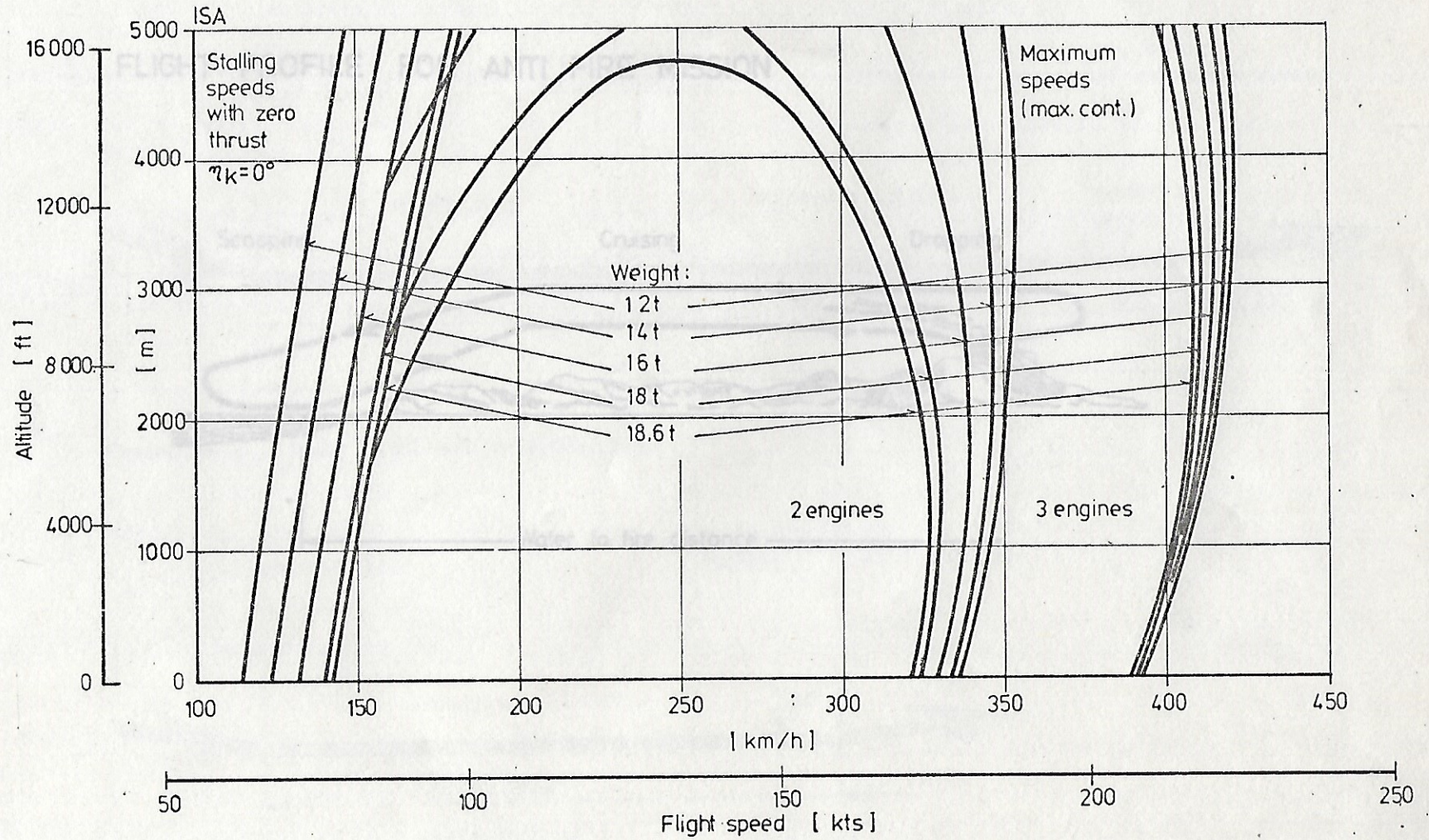
# CLIMB PERFORMANCE







### MINIMUM AND MAXIMUM SPEEDS



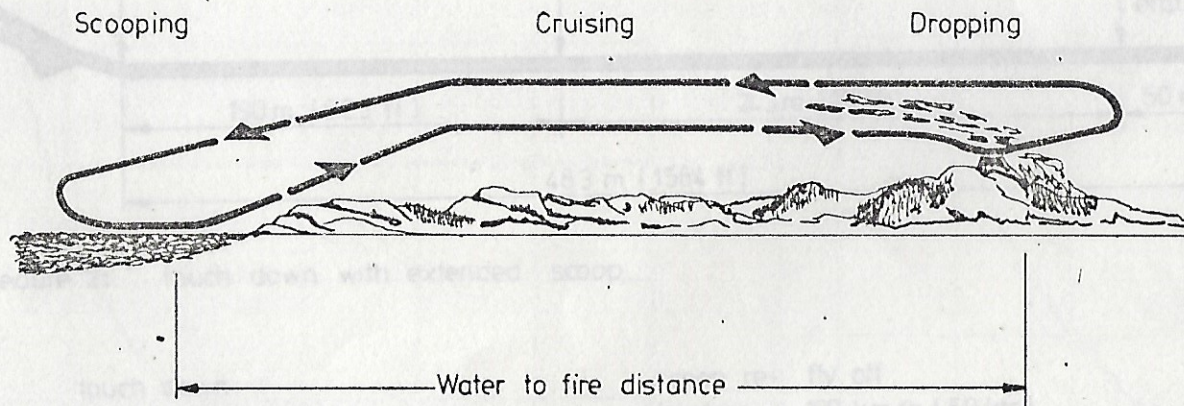


### SCOOPING PROCEDURES

SL SA TA = 15° T.O. weight: 18,61 (41,005 lb) Scooped water: 5,500 lb (2,500 kg)

Procedure 1: scoop extended after touch down

### FLIGHT PROFILE FOR ANTI FIRE MISSION



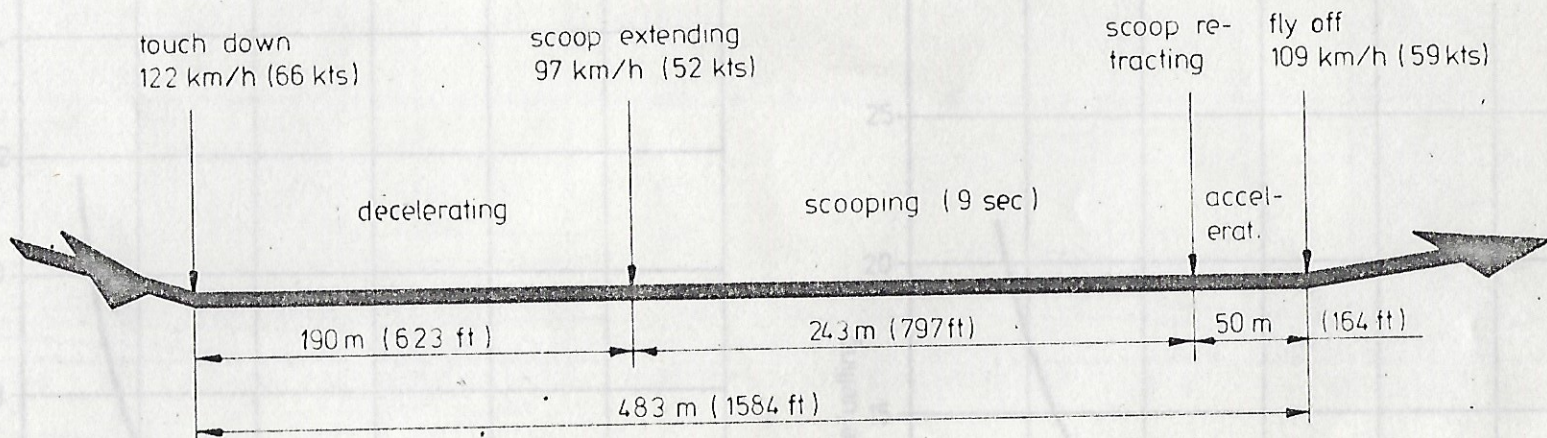
T DORNIER DO 24/72



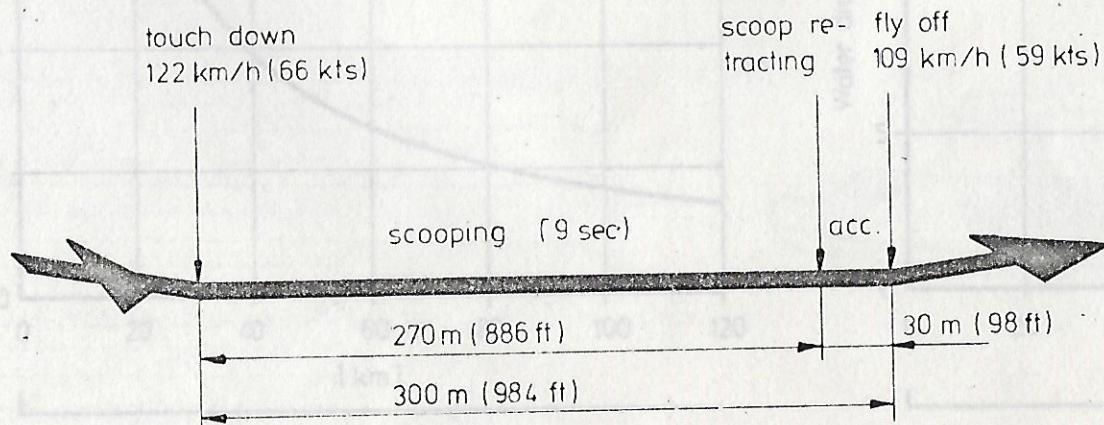
### SCOPING PROCEDURES

SL, ISA,  $\eta_k = 15^\circ$ , T.O. weight: 18,6 t (41,005 lb) ; Scooped water: 5,500 ltr. (12,125 lb)

Procedure 1: scoop extended after touch down



Procedure 2: touch down with extended scoop

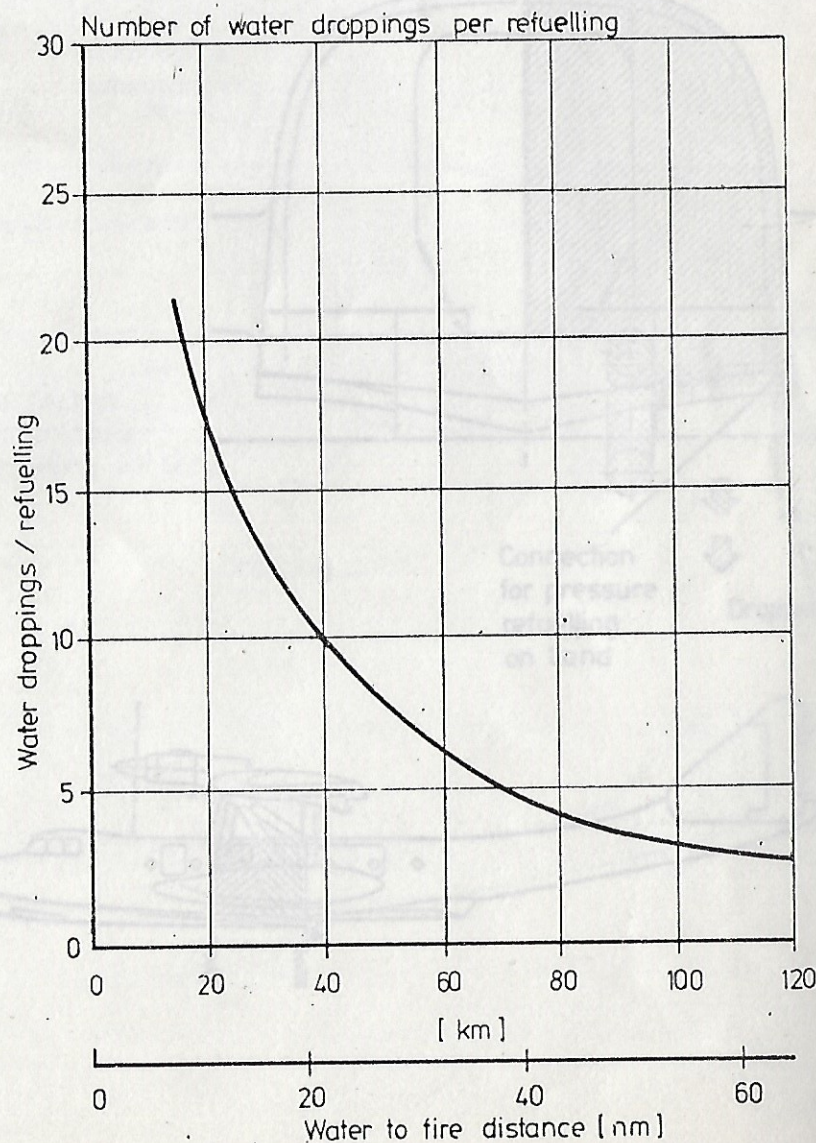
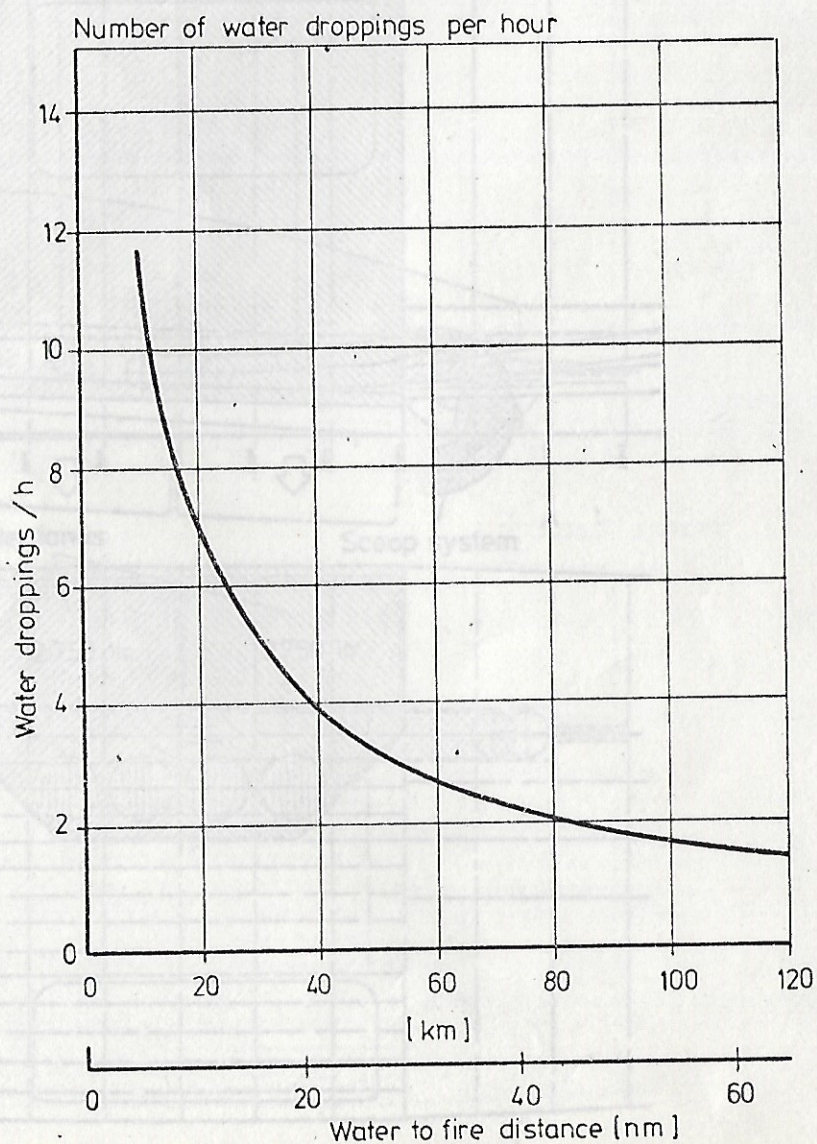




### ANTI FIRE MISSION PERFORMANCE

$V_{cruise}$  : 400 km/h , 216 [kts] ; T.O. weight: 18,6t (41,005 lb)

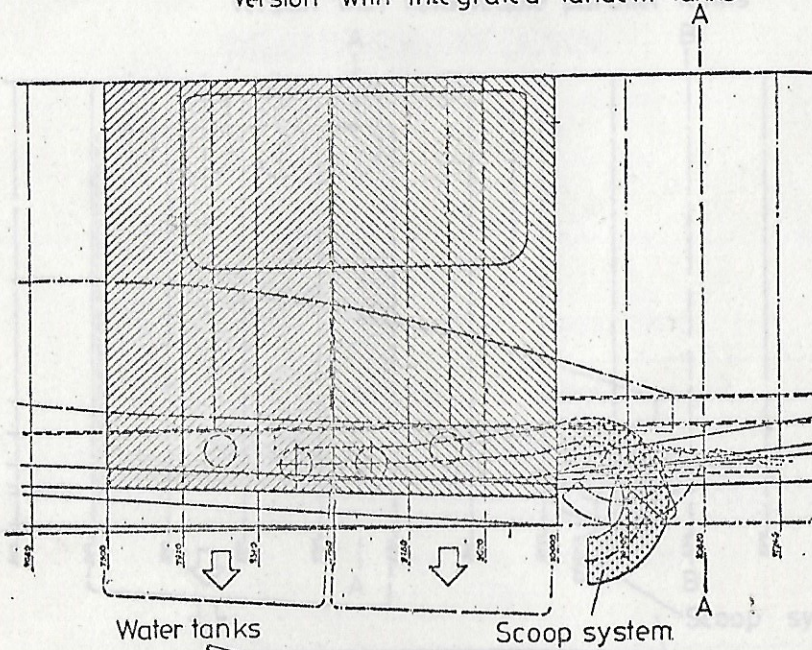
Fuel reserve : 10 %





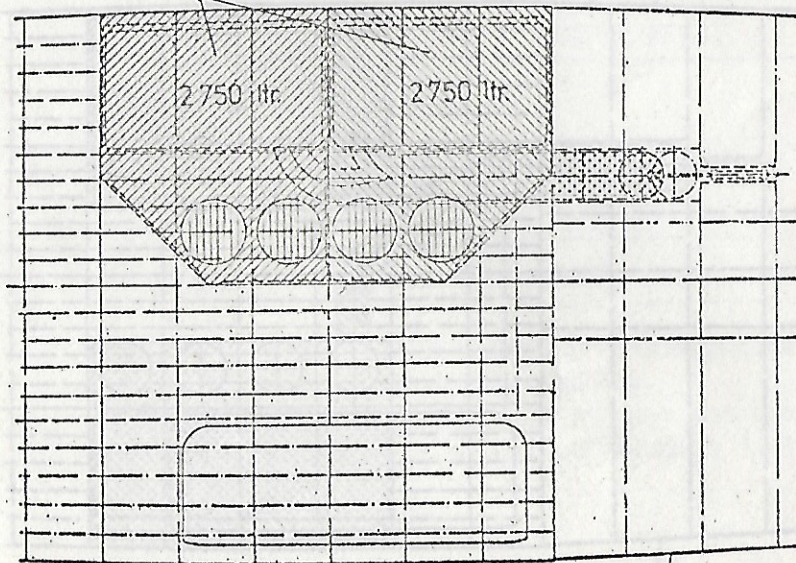
# ANTI FIRE EQUIPMENT

Version with integrated tandem tanks



Water tanks

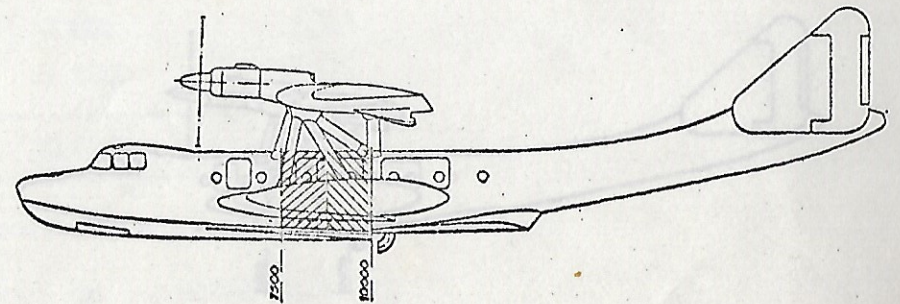
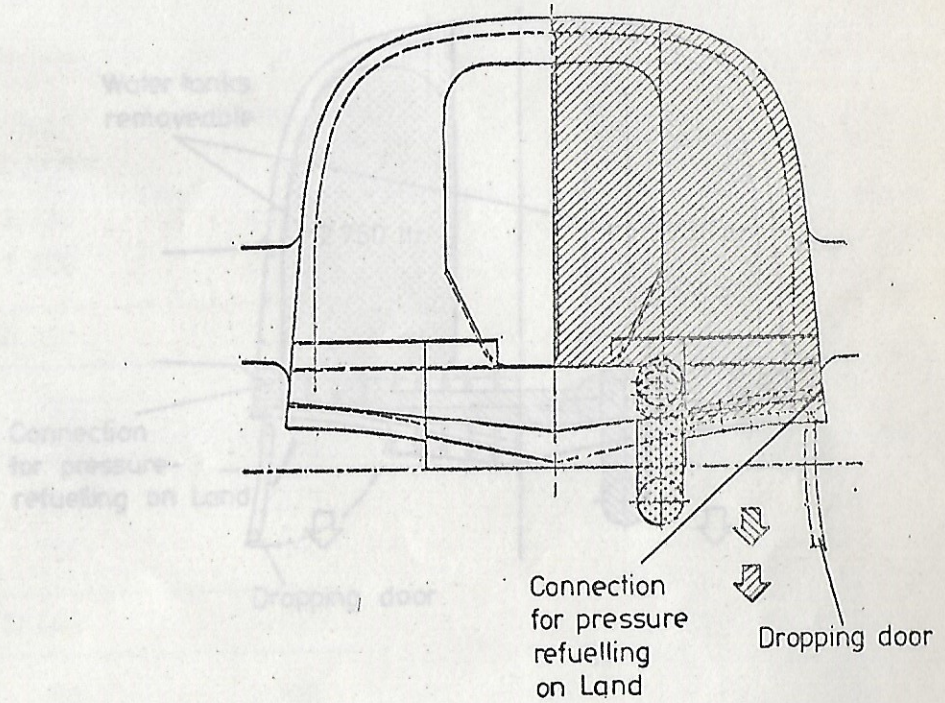
Scoop system



2750 ltr.

2750 ltr.

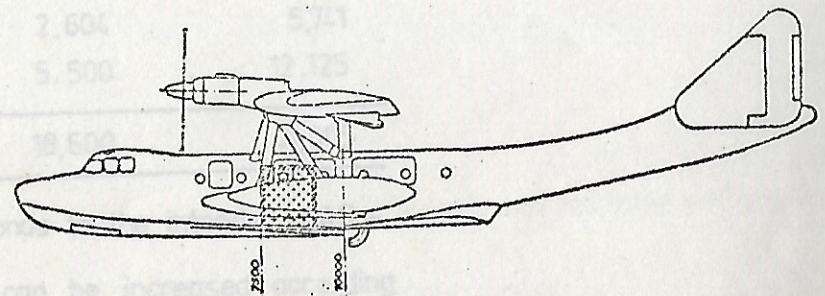
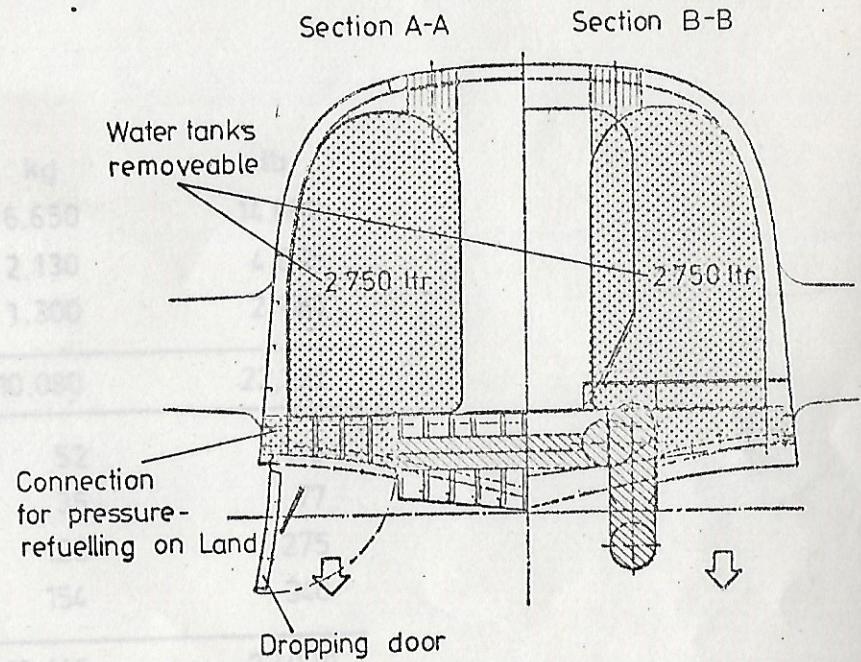
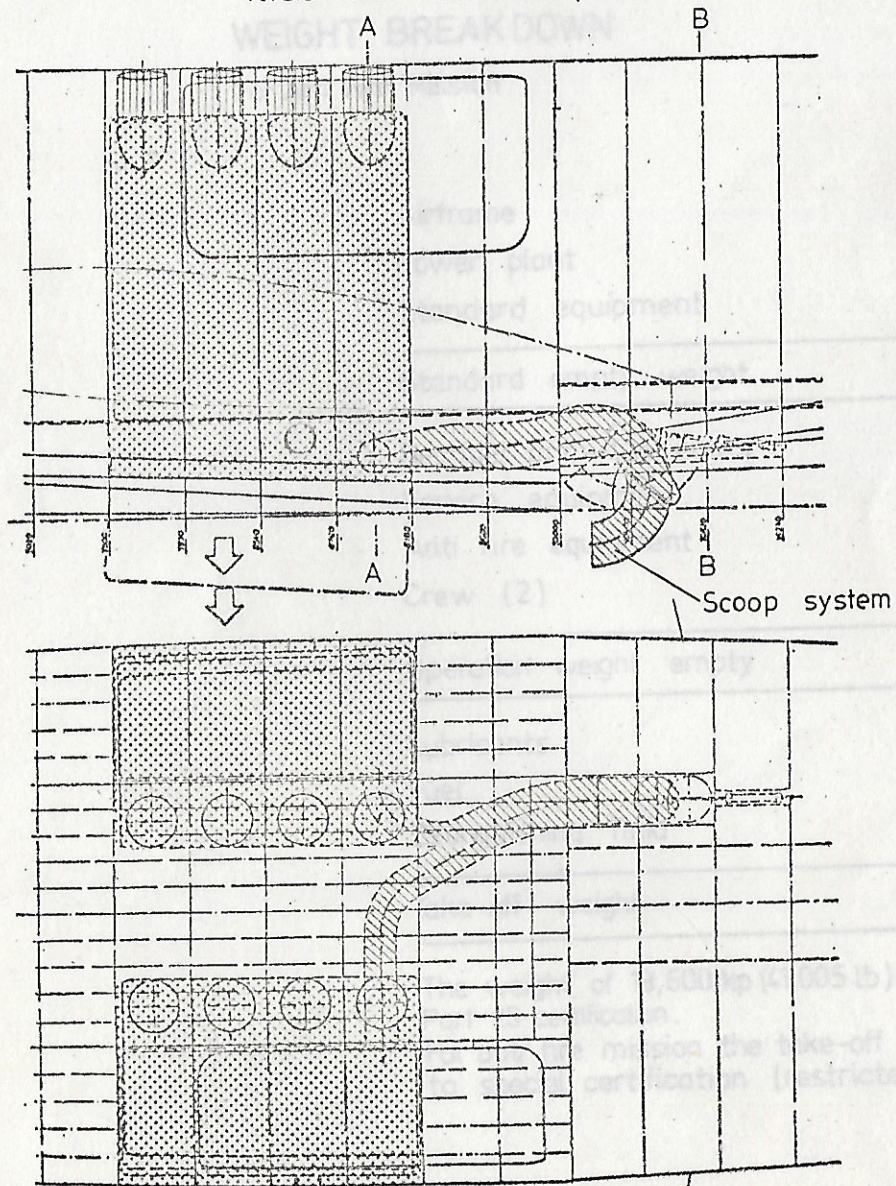
Section A-A Section B-B

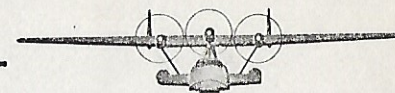




### ANTI FIRE EQUIPMENT

Version with removeable parallel tanks





## WEIGHT BREAKDOWN

For Anti Fire Mission

	kg	lb
Airframe	6,650	14,660
Power plant	2,130	4,696
Standard equipment	1,300	2,866
<b>Standard empty weight</b>	<b>10,080</b>	<b>22,222</b>
Restfuel and - lubricants	52	115
Service equipment	35	77
Anti fire equipment	125	275
Crew (2)	154	340
<b>Operation weight empty</b>	<b>10,446</b>	<b>23,029</b>
Lubricants	50	110
Fuel	2,604	5,741
Extinguishing fluid	5,500	12,125
<b>Take-off weight</b>	<b>18,600</b>	<b>41,005</b>

The weight of 18,600 kp (41,005 lb) corresponds to the intended FAR - Part 25 certification.

For anti fire mission the take-off weight can be increased according to special certification (restricted category)

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