

Filing the Flight Plan (Navigation Elements)

FLIGHT RULES

The pilot indicates how the aircraft is to be operated. If any part of the flight is planned to be IFR and GPS is a navigation sensor then the insertion of 'G' in Item 10 **shall** indicate an IFR certified receiver (TSO129A/145/146 or 196)

EQUIPMENT

The pilot indicates what communication, navigation and surveillance equipment is fitted to the aircraft. For navigation, **PBN capability** is indicated by 'R' in Item 10A. Filing 'R' **requires** further information to be inserted in Item 18 (see overleaf). Navigation sensors in Item 10A **MUST** match the navigation specifications in the Item 18 PBN/ line.

OTHER INFORMATION

The pilot provides complimentary information that will benefit the ATM system at local, regional and global level. For navigation there are two options to provide data: PBN and NAV.
 PBN/: If 'R' is filed in Item 10A, then PBN **shall** be present in Item 18 and the operationally approved specifications are to be indicated together with the sensors certified for that specification. All sensors identified in the PBN/ line **must** be present in Item 10A. See over for more details.
 NAV/: This is free text and can be used to indicate additional capabilities, such as SBAS, and can be used as an 'overflow' if the operator holds more operational approvals than can be indicated in the PBN/ line.

Further detailed information on FPL 2012 is provided in a direct access e-learning module entitled 'ICAO 2012 Flight Planning Modifications' which can be found at: <https://trainingzone.eurocontrol.int>

Source references: PANS ATM (ICAO Doc 4444) and ICAO EUR Doc 029

Item 18 PBN Codes.

Note: The filing of the following codes indicates that the aircraft is certified for that navigation specification and that the crew is operationally approved in accordance to national rules.



Aircraft Flight Manual Reflects:



Crew Approval Against:

A1	RNAV 10 (RNP 10)
B1	RNAV 5 all permitted sensors
B2	RNAV 5 GNSS
B3	RNAV 5 DME/DME
B4	RNAV 5 VOR/DME
B5	RNAV 5 INS or IRS
B6	RNAV 5 LORAN
C1	RNAV 2 all permitted sensors
C2	RNAV 2 GNSS
C3	RNAV 2 DME/DME
C4	RNAV 2 DME/DME/IRU
D1	RNAV 1 all permitted sensors
D2	RNAV 1 GNSS
D3	RNAV 1 DME/DME
D4	RNAV 1 DME/DME/IRU
L1	RNP 4
O1	RNP 1 all permitted sensors
O2	RNP 1 GNSS
O3	RNP 1 DME/DME
O4	RNP 1 DME/DME/IRU
S1	RNP APCH
S2	RNP APCH with BARO-VNAV
T1	RNP AR APCH with RF (special authorisation required)
T2	RNP AR APCH without RF (special authorisation required)

RNP 10

RNAV 5
B-RNAV

RNAV 1
P-RNAV*

RNAV 1
P-RNAV*

RNP 4

(Basic) RNP 1

RNP APCH
(Final +/- 0.3NM)

RNP AR APCH
(≥0.3NM)

EASA

FAA

AMC 20-12

Order 8400.12

AMC 20-4

AC 90-96 ()

TGL10 ()

AC 90-100 ()

TGL10

AC 90-100 ()

TBA

Order 8400.33

TGL10
(GNSS only)

AC 90-105

(LNAV, LNAV/VNAV)

AMC 20-27

AC 90-105

AMC 20-28

AC 90-107

(LPV)

AMC 20-26

AC 90-101