

Professional Client Types

Class of Instrument	(a) Equities: Tick Size Liquidity Band 1 and 2				
Notification if <1 average trade per business day in the previous year	N				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
CITIGROUP (XKZZ2JZF41MRHTR1V493)	13,8%	15,7%	N/A	N/A	N/A
BOA - MERRILL LYNCH (GGDZP1UYGU9STUHRDP48)	13,3%	9,2%	N/A	N/A	N/A
EXANE (969500UP76J52A9OXU27)	13,2%	11,7%	N/A	N/A	N/A
SOCIETE GENERALE (O2RNE8IBXP4R0TD8PU41)	11,9%	22,9%	N/A	N/A	N/A
MORGAN STANLEY (4PQUHN3JPFGFNF3BB653)	10,3%	12,2%	N/A	N/A	N/A
Top 5 Total	62,5%	71,7%	N/A	N/A	N/A

Class of Instrument	(a) Equities: Tick Size Liquidity Band 3 and 4				
Notification if <1 average trade per business day in the previous year	N				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
UNICREDIT (2ZCNRR8UK83OBTEK2170)	15,7%	7,4%	N/A	N/A	N/A
EXANE (969500UP76J52A9OXU27)	13,0%	14,5%	N/A	N/A	N/A
MORGAN STANLEY (4PQUHN3JPFGFNF3BB653)	12,2%	12,5%	N/A	N/A	N/A
SOCIETE GENERALE (O2RNE8IBXP4R0TD8PU41)	12,1%	18,2%	N/A	N/A	N/A
BOA - MERRILL LYNCH (GGDZP1UYGU9STUHRDP48)	7,9%	7,0%	N/A	N/A	N/A
Top 5 Total	60,9%	59,6%	N/A	N/A	N/A

Class of Instrument	(a) Equities: Tick Size Liquidity Band 5 and 6				
Notification if <1 average trade per business day in the previous year	N				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
CITIGROUP (XKZZ2JZF41MRHTR1V493)	14,5%	15,4%	N/A	N/A	N/A
SOCIETE GENERALE (O2RNE8IBXP4R0TD8PU41)	13,6%	20,6%	N/A	N/A	N/A
BOA - MERRILL LYNCH (GGDZP1UYGU9STUHRDP48)	12,6%	9,0%	N/A	N/A	N/A
EXANE (969500UP76J52A9OXU27)	11,0%	11,9%	N/A	N/A	N/A
MORGAN STANLEY (4PQUHN3JPFGFNF3BB653)	10,5%	12,8%	N/A	N/A	N/A
Top 5 Total	62,2%	69,7%	N/A	N/A	N/A

Class of Instrument	(b) Debt Instruments (Bonds)				
Notification if <1 average trade per business day in the previous year	N				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
TradeWeb EU B.V. (549300MII67ES5YBJH61)	38,5%	45,8%	N/A	N/A	N/A
Bloomberg Trading Facility BV (BTFE)	24,9%	7,1%	N/A	N/A	N/A
MarketAxess NL B.V.(MANL)	5,5%	12,6%	N/A	N/A	N/A
TradeWeb Europe Ltd (2138001WXZQOPMPA3D50)	3,8%	7,0%	N/A	N/A	N/A
Citigroup (MBNUM2BPBDO7JBLYG310)	2,1%	1,5%	N/A	N/A	N/A
Top 5 Total	74,8%	74,0%	N/A	N/A	N/A

Class of Instrument	(b) Debt Instruments (Money markets instruments)				
Notification if <1 average trade per business day in the previous year	N				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
MORGAN STANLEY (54	63,5%	5,3%	N/A	N/A	N/A
BOA - MERRILL LYNCH (EQYXK86SF381Q21S3 020	27,0%	17,7%	N/A	N/A	N/A
NOMURA (DGQCSV2PHVF7I274 3539)	2,8%	4,5%	N/A	N/A	N/A
TradeWeb EU B.V. (2138001WXZQOPMP A3D50)	1,5%	30,2%	N/A	N/A	N/A
JP MORGAN CHASE (549300ZK53CNGEEI6 A29)	1,4%	14,3%	N/A	N/A	N/A
Top 5 Total	96,2%	72,0%	N/A	N/A	N/A

Class of Instrument	(c) Interest rates derivatives				
Notification if <1 average trade per business day in the previous year	N				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
SOCIETE GENERALE (O2RNE8IBXP4R0TD8 PU41)	17,9%	26,5%	N/A	N/A	N/A
BNP PARIBAS (DGQCSV2PHVF7I274 3539)	16,8%	6,9%	N/A	N/A	N/A
CREDIT AGRICOLE GROUP (2138007P96W5GXQC JL28)	16,0%	17,5%	N/A	N/A	N/A
UBS (5299007QVIQ7IO64N X37)	14,9%	10,2%	N/A	N/A	N/A
BOA - MERRILL LYNCH	9,4%	3,6%	N/A	N/A	N/A
Top 5 Total	74,8%	64,8%	N/A	N/A	N/A

Class of Instrument	(e) Currency derivatives				
Notification if <1 average trade per business day in the previous year	N				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Financial & Risk Transaction Services Ireland Limited - FXall RFQ	93,6%	94,4%	N/A	N/A	N/A
MORGAN STANLEY (54930056FHWP7GIWYY08)	1,7%	0,7%	N/A	N/A	N/A
CREDIT AGRICOLE GROUP (1VUV7VQFKUOQSJ21A208)	1,0%	1,8%	N/A	N/A	N/A
JP MORGAN CHASE (549300ZK53CNGEEI6A29)	0,6%	0,6%	N/A	N/A	N/A
GOLDMAN SACHS (8IBZUGJ7JPLH368JE346)	0,5%	0,1%	N/A	N/A	N/A
Top 5 Total	97,4%	97,6%	N/A	N/A	N/A

Class of Instrument	(g) Equity Derivatives				
Notification if <1 average trade per business day in the previous year	N				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Bloomberg Trading Facility BV (BTFE)	24,2%	4,2%	N/A	N/A	N/A
BOA - MERRILL LYNCH (549300FH0WJAPEHTIQ77)	15,4%	2,3%	N/A	N/A	N/A
CREDIT AGRICOLE GROUP (2138007P96W5GXQCJL28)	13,9%	18,9%	N/A	N/A	N/A
SOCIETE GENERALE (O2RNE8IBXP4R0TD8PU41)	9,0%	13,9%	N/A	N/A	N/A
JP MORGAN CHASE (549300ZK53CNGEEI6A29)	7,7%	2,0%	N/A	N/A	N/A
Top 5 Total	70,1%	41,3%	N/A	N/A	N/A

Class of Instrument	(k) Exchange Traded Products (ETF)				
Notification if <1 average trade per business day in the previous year	N				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Tradeweb EU B.V. (549300MII67ES5YBJ H61)	84,2%	68,1%	N/A	N/A	N/A
UBS (5299007QVIQ7IO64N X37)	13,1%	26,6%	N/A	N/A	N/A
CITIGROUP (XKZZ2JZF41MRHTR1 V493)	1,4%	0,1%	N/A	N/A	N/A
KEPLER - CHEUVREUX (9695005EOZG9X8IRJ D84)	0,8%	2,6%	N/A	N/A	N/A
Tradeweb Europe Limited (2138001WXZQOPMP A3D50)	0,3%	0,1%	N/A	N/A	N/A
Top 5 Total	99,7%	97,6%	N/A	N/A	N/A

Class of Instrument	(m) Convertibles Bonds				
Notification if <1 average trade per business day in the previous year	N				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
TradeWeb EU B.V. (549300MII67ES5YBJ H61)	68,3%	73,2%	N/A	N/A	N/A
BNP PARIBAS (ROMUWSFPU8MPRO 8K5P83)	6,6%	4,1%	N/A	N/A	N/A
CITIGROUP (XKZZ2JZF41MRHTR1 V493)	5,3%	4,1%	N/A	N/A	N/A
CREDIT SUISSE (DL6FFRRLF74S01HE2 M14)	3,4%	2,1%	N/A	N/A	N/A
SUMITOMO MITSUI FINANCIAL GROUP (5493008794GM6YH5 G766)	2,9%	3,1%	N/A	N/A	N/A
Top 5 Total	86,5%	86,6%	N/A	N/A	N/A