

Class of Instrument AA99

Equity instruments- Shar

Tick Size not used

Information on whether an average of < 1 trade per business day was executed in the previous year

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	97,07%	99,63%	100,00%	0,00%	100,00%
J P Morgan SE FFM (549300ZK53CNGEEI6A29)	2,93%	0,37%	100,00%	0,00%	100,00%



Class of Instrument AA99

Equity instruments- Shar

Tick Size liquidity band A and liquidity band B

Information on whether an average of < 1 trade per business day was executed in the previous year N

Top five execution venues 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
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Morgan Stanley Europe SE (54930056FHWP7GIWYY08)

100,00%

100,00%

100,00%

0,00%



Class of Instrument AA99

Tick Size

Equity instruments- Shar

liquidity band C and liquidity band D

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Information on whether an average of < 1 trade per business day was executed in the previous year N

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	1 *	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
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Morgan Stanley Europe SE (54930056FHWP7GIWYY08)

100,00%

100,00%

100,00%

0,00%



Class of Instrument **AA99**

Equity instruments- Shar

liquidity band E and liquidity band F Tick Size

Information on whether an average of < 1 trade per business day was executed in the previous year.

Information on whether an average of < 1 trade per business day was executed in the previous year N								
Top five execution venues 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 Europe SE (54930056FHWP7GIWYY08)	99,94%	99,90%	100,00%	0,00%	100,00%			
J P Morgan SE FFM (549300ZK53CNGEEI6A29)	0,06%	0,10%	100,00%	0,00%	100,00%			



Class of Instrument **AB99** Equity instruments- Shar Tick Size not used Information on whether an average of < 1 trade per business day was executed in the previous year Y Top five execution venues ranked in terms of trading volumes Proportion of volume Proportion of orders Percentage of Percentage of Percentage of (descending order) traded as a percentage executed as percentage passive orders aggressive orders directed orders of total in that class of total in that class Morgan Stanley Europe SE (54930056FHWP7GIWYY08) 100,00% 0.00% 100,00% 100,00% 100,00%



Class of Instrument **AB99**

Equity instruments- Shar

Tick Size liquidity band A and liquidity band B

Information on whether an average of < 1 trade per business day was executed in the previous year N

Top five execution venues 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
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Morgan Stanley Europe SE (54930056FHWP7GIWYY08)

100,00%

100,00%

100,00%

0.00%



Class of Instrument

AB99

Equity instruments- Shar liquidity band C and liquidity band D Tick Size Information on whether an average of < 1 trade per business day was executed in the previous year N Top five execution venues ranked in terms of trading volumes Proportion of volume Proportion of orders Percentage of Percentage of Percentage of (descending order) traded as a percentage executed as percentage passive orders aggressive orders directed orders of total in that class of total in that class

Morgan Stanley Europe SE (54930056FHWP7GIWYY08) 100,00% 100,00% 100,00% 0,00% 100,00%



Class of Instrument AB99

Equity instruments- Shar

Tick Size liquidity band E and liquidity band F

Information on whether an average of < 1 trade per business day was executed in the previous year Y

Top five execution venues 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
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Morgan Stanley Europe SE (54930056FHWP7GIWYY08)

100,00%

100,00%

100,00%

0,00%



Class of Instrument AC99

Exchange traded product

Tick Size not used

Information on whether an average of < 1 trade per business day was executed in the previous year N

Top five execution venues 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
Flow Traders B V (549300CLJI9XDH12XV51)	39,28%	37,40%	100,00%	0,00%	100,00%
Jane Street Financial Ltd. (549300ZHEHX8M31RP142)	20,13%	20,94%	100,00%	0,00%	100,00%
Donner & Reuschel AG (23ZYQ4KSBEDVYML8NC86)	16,75%	7,00%	100,00%	0,00%	100,00%
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	12,26%	14,75%	100,00%	0,00%	100,00%
Optiver V.O.F. (7245009KRYSAYB2QCC29)	11,51%	19,74%	100,00%	0,00%	100,00%



Class of Instrument AD99 other instruments liquidity band A and liquidity band B Tick Size Information on whether an average of < 1 trade per business day was executed in the previous year N Top five execution venues ranked in terms of trading volumes Proportion of volume Proportion of orders Percentage of Percentage of Percentage of (descending order) traded as a percentage executed as percentage passive orders aggressive orders directed orders of total in that class of total in that class

Morgan Stanley Europe SE (54930056FHWP7GIWYY08) 100,00% 100,00% 100,00% 0,00% 100,00%



Class of Instrument AE99

other instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed in the previous year

Information on whether an average of < 1 trade per business day was executed in the previous year Y								
Top five execution venues 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 Global Markets EU (6TJCK1B7E7UTXP528Y04)	99,97%	94,77%	100,00%	0,00%	100,00%			
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	0,03%	5,23%	100,00%	0,00%	100,00%			



Class of Instrument AE99

other instruments

Tick Size

liquidity band A and liquidity band B

Information on whether an average of < 1 trade per business day was executed in the previous year Y

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	_ <u> </u>	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
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Morgan Stanley Europe SE (54930056FHWP7GIWYY08)

100,00%

100,00%

100,00%

0.00%



Class of Instrument AE99

other instruments

Tick Size liquidity band C and liquidity band D

Information on whether an average of < 1 trade per business day was executed in the previous year Y

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	_ <u> </u>	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
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Morgan Stanley Europe SE (54930056FHWP7GIWYY08)

100,00%

100,00%

100,00%

0.00%



Class of Instrument BA10

21110

Debt instruments

Tick Size

not used

Information on whether an average of < 1 trade per business day was executed in the previous year N

Top five execution venues 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
HSBC Trinkaus Dssd (JUNT405OW8OY5GN4DX16)	11,61%	11,04%	100,00%	0,00%	100,00%
Barclays Bank PLC Ireland (2G5BKIC2CB69PRJH1W31)	11,00%	10,43%	100,00%	0,00%	100,00%
Deutsche Bk Ffm (7LTWFZYICNSX8D621K86)	9,31%	8,32%	100,00%	0,00%	100,00%
BofA Securities Europe SA (549300FH0WJAPEHTIQ77)	6,87%	6,64%	100,00%	0,00%	100,00%
Commerzbank AG Ffm (851WYGNLUQLFZBSYGB56)	6,53%	6,13%	100,00%	0,00%	100,00%



Class of Instrument

BA11

Debt instruments

Tick Size

not used

Information on whether an average of < 1 trade per business day was executed in the previous year Y

Top five execution venues 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 Global Markets EU (6TJCK1B7E7UTXP528Y04)	35,70%	34,43%	100,00%	0,00%	100,00%
Nordea Bk Finland Hels (5299000DI3047E2LIV03)	17,00%	16,85%	100,00%	0,00%	100,00%
NATIXIS S A (KX1WK48MPD4Y2NCUIZ63)	11,29%	11,23%	100,00%	0,00%	100,00%
Bco Bilbao Viz Arg Madr (K8MS7FD7N5Z2WQ51AZ71)	9,28%	8,70%	100,00%	0,00%	100,00%
Deutsche Bk Ffm (7LTWFZYICNSX8D621K86)	4,98%	4,89%	100,00%	0,00%	100,00%



Class of Instrument **BA12**

Debt instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed in the previous year Y

Top five execution venues 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
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Goldman Sachs Bk Europe SE (8IBZUGJ7JPLH368JE346)

100,00%

100,00%

100,00%

0.00%



Class of Instrument

BA13

Debt instruments

Tick Size

not used

Information on whether an average of < 1 trade per business day was executed in the previous year Y

Top five execution venues ranked in terms of trading volumes Proportion of volume Proportion of orders Percentage of Percentage of Percentage of (descending order) traded as a percentage executed as percentage passive orders aggressive orders directed orders of total in that class of total in that class Banco Santander S A (5493006QMFDDMYWIAM13) 39,69% 38,02% 100,00% 0,00% 100,00% NORD LB Hann (DSNHHQ2B9X5N6OUJ1236) 16,39% 15,68% 100,00% 0.00% 100.00% Citigroup Global Markets EU (6TJCK1B7E7UTXP528Y04) 100,00% 100,00% 15.15% 14.03% 0.00% BNP Paribas Paris (R0MUWSFPU8MPRO8K5P83) 6,94% 6,46% 100,00% 0.00% 100.00% DZ Bank AG (529900HNOAA1KXQJUQ27) 6,06% 3,90% 100,00% 0.00% 100,00%



Class of Instrument BA14

DITT

Debt instruments

Tick Size

not used

Information on whether an average of < 1 trade per business day was executed in the previous year N

Top five execution venues 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
UBS Europe SE (5299007QVIQ7IO64NX37)	8,30%	8,23%	100,00%	0,00%	100,00%
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	8,11%	7,91%	100,00%	0,00%	100,00%
Jane Street Financial Ltd. (549300ZHEHX8M31RP142)	7,23%	6,74%	100,00%	0,00%	100,00%
BofA Securities Europe SA (549300FH0WJAPEHTIQ77)	6,70%	6,65%	100,00%	0,00%	100,00%
Credit Agricole Corp & Inv (1VUV7VQFKUOQSJ21A208)	6,30%	6,11%	100,00%	0,00%	100,00%



Class of Instrument BA15

Debt instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed in the previous year Y

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
12,28%	12,34%	100,00%	0,00%	100,00%
12,01%	11,69%	100,00%	0,00%	100,00%
10,74%	9,51%	100,00%	0,00%	100,00%
10,02%	8,75%	100,00%	0,00%	100,00%
7,75%	7,65%	100,00%	0,00%	100,00%
	traded as a percentage of total in that class 12,28% 12,01% 10,74% 10,02%	traded as a percentage of total in that class executed as percentage of total in that class 12,28% 12,34% 12,01% 11,69% 10,74% 9,51% 10,02% 8,75%	traded as a percentage of total in that class executed as percentage of total in that class passive orders 12,28%	traded as a percentage of total in that class aggressive orders aggressive orders of total in that class aggressive orders aggressive orders of total in that class aggressive orders aggressi



Class of Instrument **BB99** Structured financial prod Tick Size not used Information on whether an average of < 1 trade per business day was executed in the previous year Y Top five execution venues ranked in terms of trading volumes Proportion of volume Proportion of orders Percentage of Percentage of Percentage of (descending order) traded as a percentage executed as percentage passive orders aggressive orders directed orders of total in that class of total in that class BofA Securities Europe SA (549300FH0WJAPEHTIQ77) 100,00% 0.00% 100,00% 100,00% 100,00%



Class of Instrument BD21 Equity derivatives Tick Size not used Information on whether an average of < 1 trade per business day was executed in the previous year N Top five execution venues ranked in terms of trading volumes Proportion of volume Proportion of orders Percentage of Percentage of Percentage of (descending order) traded as a percentage executed as percentage passive orders aggressive orders directed orders of total in that class of total in that class J P Morgan SE FFM (549300ZK53CNGEEI6A29) 100,00% 0.00% 100,00% 100,00% 100,00%



Class of Instrument

BF99

Exchange traded product

Tick Size

not used

Information on whether an average of < 1 trade per business day was executed in the previous year N

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	1 -	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Flow Traders B V (549300CLJI9XDH12XV51)	51,31%	49,28%	100,00%	0,00%	100,00%
Donner & Reuschel AG (23ZYQ4KSBEDVYML8NC86)	28,08%	29,03%	100,00%	0,00%	100,00%
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	20,05%	19,99%	100,00%	0,00%	100,00%
Jane Street Financial Ltd. (549300ZHEHX8M31RP142)	0,56%	1,70%	100,00%	0,00%	100,00%



Class of Instrument	C999					
	no specific classification					
Tick Size	not used					
Information on whether an average of < 1 trade per business day was executed in the previous year Y						
1 -	enues 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 Europe SE (54930056FHWP7GIWYY08) 100,00% 100,00% 100,00% 0,00% 100,00%						



Class of Instrument **CB99** Other instruments Tick Size not used Information on whether an average of < 1 trade per business day was executed in the previous year Y Top five execution venues ranked in terms of trading volumes Proportion of volume Proportion of orders Percentage of Percentage of Percentage of (descending order) traded as a percentage executed as percentage passive orders aggressive orders directed orders of total in that class of total in that class Morgan Stanley Europe SE (54930056FHWP7GIWYY08) 100,00% 0.00% 100,00% 100,00% 100,00%