

Class of Instrument Equity (AA99)

Ticksize AB
Notification if <1 average trade No
per business day in the previous
year

Top five execution venues ranked in terms of trading volumes (descending order)			Percentage of passive orders	· ·	Percentage of directed orders
Zürich	83,92%	61,15%	100,00%	0,00%	0,08%
New York-NYSE	4,01%	9,96%	100,00%	0,00%	0,00%
New York-NASDAQ	3,64%	10,86%	100,00%	0,00%	0,22%
Toronto TSE	2,30%	1,01%	100,00%	0,00%	2,33%
Xetra	1,77%	1,99%	100,00%	0,00%	34,91%
Others Total	4,37% 100.00%	15,03% 100,00%			



Class of Instrument Equity (AA99)

Ticksize CD
Notification if <1 average trade per business day in the previous year

Top five execution venues ranked in terms of trading volumes (descending order)		Proportion of orders executed as percentage of total in that class	Percentage of passive orders		Percentage of directed orders
Paris	51,45%	30,68%	100,00%	0,00%	0,36%
London	30,38%	14,74%	100,00%	0,00%	1,89%
Xetra	9,25%	44,74%	100,00%	0,00%	2,14%
Zürich	2,80%	3,38%	100,00%	0,00%	1,93%
New York-NYSE	2,37%	1,23%	100,00%	0,00%	21,21%
Others Total	3,75% 100,00%	5,23% 100,00%			



Class of Instrument Equity (AA99)

Ticksize EF
Notification if <1 average trade per business day in the previous year

Top five execution venues ranked in terms of trading volumes (descending order)		Proportion of orders executed as percentage of total in that class		Percentage of aggressive orders	Percentage of directed orders
Paris	22,46%	4,07%	100,00%	0,00%	1,09%
New York-NYSE	17,46%	5,84%	100,00%	0,00%	3,36%
New York-NASDAQ	16,32%	8,13%	100,00%	0,00%	2,17%
Xetra	16,25%	68,12%	100,00%	0,00%	0,94%
London	7,58%	1,84%	100,00%	0,00%	52,19%
Others Total	19,93% 100,00%	12,00% 100,00%			



Class of Instrument Equity (AA99)
Ticksize -- Yes
Por business day in the previous
year

Top five execution venues ranked in terms of trading volumes (descending order)		•	Percentage of passive orders		Percentage of directed orders
New York-NYSE	53,56%	91,71%	100,00%	0,00%	5,45%
New York-NASDAQ	30,79%	7,21%	100,00%	0,00%	0,00%
Xetra	6,90%	0,59%	100,00%	0,00%	6,25%
Zürich	3,77%	0,37%	100,00%	0,00%	0,00%
Toronto TSX	2,80%	0,04%	100,00%	0,00%	0,00%
Others Total	2,19% 100,00%	0,08% 100,00%			



Class of Instrument Equity certificates (AB99)

Ticksize AB
Notification if <1 average trade per business day in the previous year

AB
Notification if <1 average trade year

Top five execution venues ranked in terms of trading volumes (descending order)		· ·	<u> </u>	Percentage of aggressive orders	Percentage of directed orders
New York-NYSE	60,80%	75,10%	100,00%	0,00%	24,31%
London	22,67%	2,49%	100,00%	0,00%	66,67%
Frankfurt	7,03%	2,90%	100,00%	0,00%	85,71%
New York-NASDAQ	4,99%	17,43%	100,00%	0,00%	16,67%
New York-OTC	3,38%	1,66%	100,00%	0,00%	100,00%
Others Total	1,14% 100,00%	•			



Class of Instrument Equity certificates (AB99)

Ticksize CD
Notification if <1 average trade No
per business day in the previous
year

Top five execution venues ranked in terms of trading volumes (descending order)		· ·		· ·	Percentage of directed orders
New York-NYSE	92,35%	83,12%	100,00%	0,00%	26,70%
New York-NASDAQ	4,33%	13,41%	100,00%	0,00%	0,00%
Xetra	2,51%	2,31%	100,00%	0,00%	97,06%
Frankfurt	0,44%	0,61%	100,00%	0,00%	77,78%
London	0,30%	0,48%	100,00%	0,00%	100,00%
Others Total	0,07% 100,00%	-,			



Class of Instrument Equity certificates (AB99)
Ticksize EF

Notification if <1 average trade per business day in the previous year

Top five execution venues ranked in terms of trading	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of	Percentage of passive	_	Percentage of directed orders
volumes (descending order)		total in that class	orders	aggressive orders	orders
Xetra	92,09%	99,66%	100,00%	0,00%	0,29%
New York-NASDAQ	7,44%	0,24%	100,00%	0,00%	80,00%
Frankfurt	0,47%	0,10%	100,00%	0,00%	100,00%



Class of Instrument Exchange Traded Funds (AC99)
-Notification if <1 average trade per business day in the previous year

Top five execution venues ranked in terms of trading volumes (descending order)		· ·	Percentage of passive orders	· ·	Percentage of directed orders
Bloomberg MTF	87,26%	62,73%	100,00%	0,00%	6,20%
Xetra	12,28%	36,38%	100,00%	0,00%	47,64%
Stuttgart	0,20%	0,21%	100,00%	0,00%	13,16%
New York - Arca	0,11%	0,32%	100,00%	0,00%	0,00%
Zürich	0,08%	0,04%	100,00%	0,00%	0,00%
Others Total	0,07% 100,00%	0,32% 100,00%			



Class of Instrument
Ticksize
Notification if <1 average trade
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year

Certificates (AD99)
-No

Top five execution venues	Proportion of volume traded as a percentage of total in that class	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading		executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Zürich	100,00%	100,00%	100,00%	0,00%	0,27%

Andere 0,00% 0,00% Total 100,00% 100,00%



Class of Instrument other equity related instruments (AE99)
-Notification if <1 average trade per business day in the previous year

Top five execution venues ranked in terms of trading volumes (descending order)			Percentage of passive orders	· ·	Percentage of directed orders
Zürich	41,52%	6,50%	100,00%	0,00%	0,00%
Xetra	34,63%	82,66%	100,00%	0,00%	6,37%
Bloomberg MTF	20,57%	0,62%	100,00%	0,00%	0,00%
Stuttgart	2,97%	0,93%	100,00%	0,00%	0,00%
Paris	0,30%	2,17%	100,00%	0,00%	28,57%
Others Total	0,02% 100,00%	7,12% 100,00%			



Class of Instrument Government bonds (BA10)
-Notification if <1 average trade
per business day in the previous
year

Top five execution venues	Proportion of volume traded as a percentage of total in that class	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading		executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Bloomberg MTF	98,08%	88,72%	100,00%	0,00%	0,45%
Stuttgart	1,92%	11,28%	100,00%	0,00%	1,18%



Class of Instrument
Ticksize
Notification if <1 average trade
per business day in the previous
year
Other bonds (BA11)
-Yes

Top five execution venues	Proportion of volume traded as a percentage of total in that class	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading		executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Bloomberg MTF	96,55%	90,91%	100,00%	0,00%	0,00%
Stuttgart	3,45%	9,09%	100,00%	0,00%	0,00%



Class of Instrument Convertibles (BA12)
-Notification if <1 average trade
per business day in the previous
year

Top five execution venues	Proportion of volume traded as a percentage of total in that class	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading		executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Bloomberg MTF	90,50%	75,00%	100,00%	0,00%	0,00%
Frankfurt	9,50%	25,00%	100,00%	0,00%	0,00%



Class of Instrument
Ticksize

Notification if <1 average trade
per business day in the previous
year

Debentures (BA13)
-Yes

Top five execution venues	Proportion of volume traded as a percentage of total in that class	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading		executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Bloomberg MTF	99,89%	90,12%	100,00%	0,00%	0,00%
Stuttgart	0,11%	9,88%	100,00%	0,00%	0,00%



Class of Instrument

Ticksize

Notification if <1 average trade per business day in the previous year

Corporate Bonds (BA14)

-No

Top five execution venues ranked in terms of trading	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of	Percentage of passive orders	~	Percentage of directed orders
volumes (descending order)		total in that class		aggioconto cracio	514515
Bloomberg MTF	84,90%	40,02%	100,00%	0,00%	0,86%
Stuttgart	14,76%	59,69%	100,00%	0,00%	1,72%
Frankfurt	0,24%	0,17%	100,00%	0,00%	33,33%
München	0,11%	0,11%	100,00%	0,00%	0,00%

Others	0,00%	0,00%
Total	100,00%	100,00%



Class of Instrument
Ticksize
Notification if <1 average trade
per business day in the previous
year
Other Bonds (BA15)
-No

Top five execution venues	Proportion of volume traded as a percentage of total in that class	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading		executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Bloomberg MTF	88,95%	61,90%	100,00%	0,00%	0,00%
Stuttgart	11,05%	38,10%	100,00%	0,00%	6,94%



Class of Instrument
Ticksize

Notification if <1 average trade
per business day in the previous
year

Securitized equity derivatives (BE21)
-No

Top five execution venues	Proportion of volume traded as a percentage of total in that class	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading		executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Stuttgart	77,76%	87,83%	100,00%	0,00%	2,56%
Frankfurt	21,94%	12,10%	100,00%	0,00%	7,51%
Bloomberg MTF	0,27%	0,02%	100,00%	0,00%	0,00%
Düsseldorf	0,03%	0,04%	100,00%	0,00%	100,00%

Others	0,00%	0,00%
Total	100,00%	100,00%



Class of Instrument	Securitized commoditiy derivatives (BE22)
Ticksize	
Notification if <1 average trade per business day in the previous	Yes
year	

Top five execution venues	Proportion of volume traded as a percentage of total in that class	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed	
ranked in terms of trading		executed as percentage of	orders	aggressive orders	orders	
volumes (descending order)		total in that class				
Stuttgart	100,00%	100,00%	100,00%	0,00%	0,19%	



Class of Instrument	Securitized FX derivatives (BE24)
Ticksize	
Notification if <1 average trade	Yes
per business day in the previous	
year	

Top five execution venues	Proportion of volume traded as a percentage of total in that class	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading		executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Stuttgart	100,00%	100,00%	100,00%	0,00%	0,00%



Class of Instrument
Ticksize

Notification if <1 average trade
per business day in the previous
year

Securitized derivativs (BE99)
-Yes

Top five execution venues	Proportion of volume traded as a percentage of total in that class	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading		executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Xetra	56,41%	73,97%	100,00%	0,00%	100,00%
Stuttgart	38,34%	20,55%	100,00%	0,00%	33,33%
Frankfurt	5,24%	5,48%	100,00%	0,00%	50,00%



Class of Instrument ETPs (BF99)
Ticksize -Notification if <1 average trade per business day in the previous year

Top five execution venues	Proportion of volume traded as a percentage of total in that class	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading		executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Xetra	75,54%	82,19%	100,00%	0,00%	23,33%
Bloomberg MTF	22,35%	13,70%	100,00%	0,00%	0,00%
Stuttgart	2,11%	4,11%	100,00%	0,00%	33,33%



Class of Instrument ETNs (BG99)
Ticksize -Notification if <1 average trade per business day in the previous year

Top five execution venues	Proportion of volume traded as a percentage of total in that class	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading		executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Xetra	92,28%	83,33%	100,00%	0,00%	0,00%
Bloomberg MTF	7,72%	16,67%	100,00%	0,00%	100,00%



Class of Instrument without further disclosure (C999)
Ticksize -Notification if <1 average trade per business day in the previous year

T	op five execution venues	Proportion of volume traded as a percentage of total in that class	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ra	inked in terms of trading		executed as percentage of	orders	aggressive orders	orders
V	olumes (descending order)		total in that class			
Fr	ankfurt	44,51%	31,25%	100,00%	0,00%	80,00%
На	amburg	5,59%	31,25%	100,00%	0,00%	40,00%

 Others
 49,90%
 37,50%

 Total
 100,00%
 100,00%



Class of Instrument ETD (BD)

Ticksize --Notification if <1 average trade per business day in the previous year

year						
	Top five execution venues	Proportion of volume traded as a percentage of total in that class	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
	ranked in terms of trading		executed as percentage of	orders	aggressive orders	orders
	volumes (descending order)		total in that class			
	Eurex	73,74%	39,13%	100,00%	0,00%	0,00%
	Chicago Mercantile	23,47%	20,96%	100,00%	0,00%	0,00%
	London	1,60%	5,43%	100,00%	0,00%	0,00%
	Singapur	1,15%	2,33%	100,00%	0,00%	0,00%
	Chicago Board Option	0,03%	30,90%	100,00%	0,00%	0,00%

Others	0,00%	1,24%
Total	100,00%	100,00%