

Class of Instrument Equities (AA99)
Ticksize AB
Notification if <1 average trade per business day in the previous

year

Top five execution venues ranked in terms of trading volumes (descending order)	total in that class	Proportion of orders executed as percentage of total in that class			Percentage of directed orders
New York-NASDAQ	30,54%	31,91%	100,00%	0,00%	0,01%
Zürich	24,70%	13,91%	100,00%	0,00%	0,01%
London	11,52%	15,00%	100,00%	0,00%	2,23%
New York-NYSE	11,42%	14,61%	100,00%	0,00%	0,03%
Tokio	6,79%	3,09%	100,00%	0,00%	0,00%
Others Total	15,05% 100.00%	21,48% 100.00%			



Class of Instrument Equities (AA99)
Ticksize CD

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)	total in that class	Proportion of orders executed as percentage of total in that class		\sim	Percentage of directed orders
Xetra	25,99%	15,48%	100,00%	0,00%	0,09%
New York-NASDAQ	9,55%	6,35%	100,00%	0,00%	0,07%
Paris	8,86%	9,00%	100,00%	0,00%	0,02%
New York-NYSE	7,46%	10,42%	100,00%	0,00%	0,15%
Madrid-Merc.Cont.	5,71%	6,87%	100,00%	0,00%	0,00%
Others Total	42,44% 100,00%	•			



Class of Instrument Equities (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)	total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders		Percentage of directed orders
New York-NASDAQ	28,24%	22,03%	100,00%	0,00%	0,04%
New York-NYSE	23,81%	26,97%	100,00%	0,00%	0,08%
Xetra	11,56%	6,44%	100,00%	0,00%	1,96%
Paris	7,95%	7,70%	100,00%	0,00%	0,20%
London	4,50%	7,30%	100,00%	0,00%	1,77%
Others Total	23,94% 100,00%	29,56% 100,00%			



Class of Instrument Equities (AA99)

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

Top five execution venues ranked in terms of trading volumes (descending order)	total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders		Percentage of directed orders
New York-NASDAQ	64,62%	51,03%	100,00%	0,00%	0,00%
São Paulo	5,25%	4,45%	100,00%	0,00%	0,05%
New York-NYSE	5,25%	17,26%	100,00%	0,00%	0,00%
Zürich	4,20%	2,37%	100,00%	0,00%	0,00%
Mumbai SE	2,75%	0,08%	100,00%	0,00%	0,00%
Others	17,93%	24,82%			
Total	100,00%	100,00%			



Class of Instrument Equity certificates (AB99)
Ticksize AB
Notification if <1 average trade
per business day in the previous
year

Top five execution venues ranked in terms of trading volumes (descending order)	total in that class	Proportion of orders executed as percentage of total in that class		_	Percentage of directed orders
New York-NASDAQ	58,03%	50,54%	100,00%	0,00%	0,01%
New York-NYSE	37,46%	48,35%	100,00%	0,00%	0,18%
London	2,01%	0,87%	100,00%	0,00%	0,35%
Sydney	1,47%	0,01%	100,00%	0,00%	0,00%
New York-OTC	0,70%	0,23%	100,00%	0,00%	0,00%
Others Total	0,33% 100,00%	0,01% 100,00%			



Class of Instrument Equity certificates (AB99)
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)	total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders		Percentage of directed orders
New York-NASDAQ	59,33%	43,92%	100,00%	0,00%	0,07%
New York-NYSE	36,48%	52,54%	100,00%	0,00%	0,95%
Xetra	2,56%	1,84%	100,00%	0,00%	1,79%
Paris	0,79%	0,35%	100,00%	0,00%	0,00%
Stockholm	0,67%	1,33%	100,00%	0,00%	0,00%
Others Total	0,17% 100,00%	0,03% 100,00%			



Class of Instrument Equity certificates (AB99)
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	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading	total in that class	executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
New York-NASDAQ	94,38%	77,84%	100,00%	0,00%	0,44%
New York-NYSE	3,80%	22,12%	100,00%	0,00%	0,00%
New York-OTC	1,82%	0,04%	100,00%	0,00%	0,00%

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



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

Top five execution venues ranked in terms of trading volumes (descending order)	total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	9	Percentage of directed orders
Bloomberg MTF	82,15%	61,16%	100,00%	0,00%	1,48%
Paris	7,61%	4,06%	100,00%	0,00%	0,16%
London	3,66%	10,19%	100,00%	0,00%	0,06%
Xetra	2,36%	22,60%	100,00%	0,00%	5,60%
Dublin	1,98%	1,62%	100,00%	0,00%	0,00%
Othoro	2 249/	0.279/			
Others Total	2,24% 100,00%	•			



Class of Instrument

Ticksize

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

Certificates (AD99)

-Yes

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



Class of Instrument	other equity related instruments (AE99)
Ticksize	
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)	total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders		Percentage of directed orders
Zürich	94,44%	49,91%	100,00%	0,00%	0,00%
Stockholm	1,29%	22,96%	100,00%	0,00%	0,00%
Stuttgart	1,16%	0,12%	100,00%	0,00%	0,00%
Xetra	1,10%	6,37%	100,00%	0,00%	0,00%
Madrid-Merc.Cont.	1,04%	9,25%	100,00%	0,00%	0,00%
Others Total	0,96% 100,00%	11,39% 100,00%			



Class of Instrument Government bonds (BA10)

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	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading	total in that class	executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Bloomberg MTF	97,63%	88,26%	100,00%	0,00%	3,09%
Stuttgart	1,92%	11,53%	100,00%	0,00%	0,00%
Luxemburg	0,45%	0,21%	100,00%	0,00%	0,00%

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



Class of Instrument Other bonds (BA11)
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	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading	total in that class	executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Bloomberg MTF	99,57%	97,92%	100,00%	0,00%	2,13%
Stuttgart	0,43%	2,08%	100,00%	0,00%	0,00%



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

•	total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	3	Percentage of directed orders
Bloomberg MTF	96,59%	95,83%	100,00%	0,00%	0,00%
Stuttgart	3,41%	4,17%	100,00%	0,00%	100,00%



Class of Instrument Debentures (BA13)

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	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading	total in that class	executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Bloomberg MTF	99,41%	87,65%	100,00%	0,00%	2,82%
Stuttgart	0,59%	12,35%	100,00%	0,00%	0,00%



Class of Instrument Corporate Bonds (BA14)

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

Top five execution venues ranked in terms of trading volumes (descending order)	total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders		Percentage of directed orders
Bloomberg MTF	78,62%	50,89%	100,00%	0,00%	4,12%
Stuttgart	14,57%	43,75%	100,00%	0,00%	5,67%
Wien	4,42%	0,08%	100,00%	0,00%	0,00%
Frankfurt	0,97%	2,79%	100,00%	0,00%	2,78%
Luxemburg	0,60%	0,54%	100,00%	0,00%	0,00%
Others Total	0,83% 100,00%	1,94% 100,00%			



Class of Instrument Other Bonds (BA15)

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

· '	total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders		Percentage of directed orders
Bloomberg MTF	94,46%	54,55%	100,00%	0,00%	0,00%
Stuttgart	5,53%	45,45%	100,00%	0,00%	5,71%



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 ranked in terms of trading volumes (descending order)	total in that class	Proportion of orders executed as percentage of total in that class			Percentage of directed orders
Stuttgart	99,03%	98,04%	100,00%	0,00%	5,33%
Bloomberg MTF	0,58%	0,26%	100,00%	0,00%	0,00%
Zürich	0,29%	1,05%	100,00%	0,00%	0,00%
Frankfurt	0,09%	0,39%	100,00%	0,00%	33,33%
New York-NASDAQ	0,01%	0,13%	100,00%	0,00%	0,00%
Others Total	0,00% 100,00%	-,			



Class of Instrument	Securitized commoditiy derivatives (BE22)
Ticksize	
Notification if <1 average trade	Yes
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
Stuttgart	46,20%	79,19%	100,00%	0,00%	0,00%
Bloomberg MTF	37,97%	14,45%	100,00%	0,00%	4,00%
London	15,81%	4,05%	100,00%	0,00%	0,00%
Xetra	0,02%	1,73%	100,00%	0,00%	100,00%
Mailand					
Others	0,00%	0,58%			
Total	100,00%	100,00%			



Class of Instrument

Ticksize

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

Securitized FX derivatives (BE24)

-Yes

Top five execution venues	Proportion of volume traded as a percentage of	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading	total in that class	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 derivatives (BE99)

-Yes

Top five execution venues ranked in terms of trading volumes (descending order)	total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders		Percentage of directed orders
Bloomberg MTF	51,45%	13,79%	100,00%	0,00%	18,75%
Stuttgart	17,20%	21,55%	100,00%	0,00%	0,00%
Zürich	12,66%	2,59%	100,00%	0,00%	0,00%
Stockholm	11,47%	38,79%	100,00%	0,00%	0,00%
Luxemburg	5,75%	0,86%	100,00%	0,00%	0,00%
Others Total	1,48% 100,00%	,			



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

year

Top five execution venues ranked in terms of trading volumes (descending order)	total in that class	Proportion of orders executed as percentage of total in that class			Percentage of directed orders
Bloomberg MTF	87,20%	57,66%	100,00%	0,00%	1,33%
Paris	5,96%	1,97%	100,00%	0,00%	0,00%
Xetra	3,64%	35,89%	100,00%	0,00%	0,30%
Bloomberg MTF	2,47%	0,22%	100,00%	0,00%	0,00%
London	0,53%	3,61%	100,00%	0,00%	0,00%
Others Total	0,21% 100,00%	0,66% 100,00%			



Class of Instrument ETNs (BG99)
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	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed	
ranked in terms of trading	total in that class	executed as percentage of	orders	aggressive orders	orders	
volumes (descending order)		total in that class				
Xetra	100,00%	100,00%	100,00%	0,00%	0,00%	



Class of Instrument without further disclosure (C999)

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	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading	total in that class	executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Mexico	58,72%	98,77%	100,00%	0,00%	0,00%
Sydney	41,01%	1,14%	100,00%	0,00%	0,00%
Frankfurt	0,27%	0,09%	100,00%	0,00%	0,00%

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



Class of Instrument ETD (BD)
Ticksize -Notification if <1 average trade No

per business day in the previous year

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Top five execution venues	Proportion of volume traded as a percentage of	Proportion of orders	Percentage of passive	Percentage of	Percentage of directed
ranked in terms of trading	total in that class	executed as percentage of	orders	aggressive orders	orders
volumes (descending order)		total in that class			
Eurex	48,50%	32,96%	100,00%	0,00%	0,00%
Chicago Mercantile	33,54%	30,16%	100,00%	0,00%	0,00%
Korea Exchange	6,98%	0,45%	100,00%	0,00%	0,00%
Milan	1,65%	0,33%	100,00%	0,00%	0,00%
Chicago Board Trade	1,42%	4,71%	100,00%	0,00%	0,00%

Others	7,91%	31,39%
Total	100,00%	100,00%