



Calculation Guide for the Wiener Börse AG Indices

April 2012





Table of Content

1. INDEX FORMULAS	3
1.1. Formula of a Price Index	3
1.2. Formula of a Total Return Index	4
1.3. Formula of a Dividend Point Index	5
1.4. Formula of a Short Index	6
1.5. Formula of a Leverage Index	7
2. EXAMPLES	8
2.1. Calculation of a Price Index	8
2.2. Calculation of a Short Index	9
2.3. Calculation of a Leverage Index	10
2.4. Stock Split	11
2.5. Capital Increase	12
2.6. Dividend Adjustment	14
2.7. Dividend Point Calculation	16
2.8. Inclusion of a Company	17
2.9. Exclusion of a Company	19
3. CONTACT DETAILS	21

1. Index Formulas

1.1. Formula of a Price Index

A Price Index is calculated on the basis of the following formula:

$$Capitalization_t = \sum_{i=1}^N (P_{i,t} * Q_{i,t} * FF_{i,t} * RF_{i,t})$$

$P_{i,t}$ Price of i^{th} Stock in EUR
 $Q_{i,t}$ Number of Shares of i^{th} stock
 $FF_{i,t}$ Free Float Factor of i^{th} stock
 $RF_{i,t}$ Representation Factor of i^{th} stock
 N Number of Companies contained in the index
 t Time of Index Calculation

$$Index_t = Base Value * \left[\frac{Capitalization_t}{Base Capitalization} \right] * AF_t$$

Index..... Value of the Index
 AF Adjustment Factor of the Index
 t Time of Index Calculation

In case of an index adjustment (f.e. capital increase, dividend payment etc.), a new adjustment factor has to be calculated.

$$Capitalization'_t = \sum_{i=1}^N (P'_{i,t} * Q'_{i,t} * FF'_{i,t} * RF'_{i,t})$$

$P'_{i,t}$ Price of i^{th} Stock in EUR after adjustment
 $Q'_{i,t}$ Number of Shares of i^{th} stock after adjustment
 $FF'_{i,t}$ Free Float Factor of i^{th} stock after adjustment
 $RF'_{i,t}$ Representation Factor of i^{th} stock after adjustment
 N Number of Companies contained in the index
 t Time of Index Calculation

$$AF'_t = AF_t * \left[\frac{Capitalization_t}{Capitalization'_t} \right]$$

AF Adjustment Factor of the Index before adjustment
 AF' Adjustment Factor of the Index after adjustment
 N Number of Companies contained in the index
 t Time of Index Calculation (adjustment day)

1.2. Formula of a Total Return Index

A Total Return Index is calculated on the basis of the following formula:

$$Capitalization_t = \sum_{i=1}^N (P_{i,t} * Q_{i,t} * FF_{i,t} * RF_{i,t})$$

P_i..... Price of ith Stock
 Q_i..... Number of Shares of ith stock
 FF_i..... Free Float Factor of ith stock
 RF_i..... Representation Factor of ith stock
 N..... Number of Companies contained in the index
 t..... Time of Index Calculation

$$Index_t = Base Value * \left[\frac{Capitalization_t}{Base Capitalization} \right] * AF_t$$

Index..... Value of the Index
 AF..... Adjustment Factor of the Index
 t..... Time of Index Calculation

In case of an index adjustment (f.e. capital increase, dividend payment etc.), a new adjustment factor has to be calculated.

$$Capitalization'_t = \sum_{i=1}^N [(P'_{i,t} - Div_{i,t}) * Q'_{i,t} * FF'_{i,t} * RF'_{i,t}]$$

P'_i..... Price of ith Stock after adjustment (except dividend adjustment)
 Div_i..... Dividend of ith Stock
 Q'_i..... Number of Shares of ith stock after adjustment
 FF'_i..... Free Float Factor of ith stock after adjustment
 RF'_i..... Representation Factor of ith stock after adjustment
 N..... Number of Companies contained in the index
 t..... Time of Index Calculation

$$AF'_t = AF_t * \left[\frac{Capitalization_t}{Capitalization'_t} \right]$$

AF..... Adjustment Factor of the Index before adjustment
 AF'..... Adjustment Factor of the Index after adjustment
 N..... Number of Companies contained in the index
 t..... Time of Index Calculation (adjustment day)

1.3. Formula of a Dividend Point Index

A dividend point index is calculated on the basis of the following formula:

Calculation of the dividend capitalization:

$$DA_t = \sum_{i=1}^N Div_{i,t} * Q_{i,t} * FF_{i,t} * RF_{i,t}$$

- DA Dividend Capitalization
- Div_i Dividend of ith Stock
- Q_i Number of Shares of ith stock
- FF_i Free Float Factor of ith stock
- RF_i Representation Factor of ith stock
- N Number of Companies contained in the index
- t Day of Index Calculation

The DA is calculated in the evening before the ex-date, after the close of the index calculation of the base index and after the implementation of any other corporate action that will be effective the next day. Thus, for the calculation of the dividend points, the new calculation factors, as well as the new adjustment factor or divisor will be used.

Calculation of the dividend point index:

$$DVP_t = DVP_{t-1} + Base Value \left[\frac{DA_t}{Base Capitalization} \right] * AF_t$$

- DVP Value of dividend point index
- Base Value Base Value of base index
- DA Dividend Capitalization
- Base Capitalization.. Base Capitalization of base index
- AF Adjustment Factor of base index
- t Day of Index Calculation

Alternative calculation of the dividend point index:

$$DVP_t = DVP_{t-1} + \left[\frac{DA_t}{D_t} \right]$$

- DVP Value of dividend point index
- D Divisor of base index
- t Day of Index Calculation

1.4. Formula of a Short Index

A Short Index is calculated on the basis of the following formula:

$$Index_t = Index_{t-1} * \left(1 + LF * \left(\frac{Capitalization_t}{Capitalization'_{t-1}} - 1 \right) + (1 - LF) * \left(\frac{EONIA_{t-1}}{360} \right) * d \right)$$

Index..... Value of the Short Index
 LF Leverage Factor (negative)
 Capitalization..... Capitalization of the Short Index
 Capitalization'..... Capitalization of the Short Index after all possible index adjustments
 EONIA Value of the interbank rate EONIA
 t..... Time of Index Calculation (current calculation day)
 t-1..... Last calculation day before t
 d Number of days between time t and time t-1

$$Capitalization'_{t-1} = \sum_{i=1}^N [(P'_{i,t-1} - Div_{i,t-1}) * Q'_{i,t-1} * FF'_{i,t-1} * RF'_{i,t-1}]$$

P'_i..... Price of ith Stock after adjustment (except dividend adjustment)
 Div_i..... Dividend of ith Stock
 Q'_i..... Number of Shares of ith stock after adjustment
 FF'_i..... Free Float Factor of ith stock after adjustment
 RF'_i..... Representation Factor of ith stock after adjustment
 N..... Number of Companies contained in the index
 t..... Time of Index Calculation (current calculation day)
 t-1..... Last calculation day before t

1.5. Formula of a Leverage Index

A Leverage Index is calculated on the basis of the following formula:

$$Index_t = Index_{t-1} * \left(1 + LF * \left(\frac{Capitalization_t}{Capitalization'_{t-1}} - 1 \right) + (1 - LF) * \left(\frac{EONIA_{t-1} + SPREAD_T}{360} \right) * d \right)$$

Index.....	Value of the Leverage Index
LF.....	Leverage Factor
Capitalization.....	Capitalization of the Leverage Index
Capitalization'.....	Capitalization of the Leverage Index after all possible index adjustments
EONIA.....	Value of the interbank rate EONIA
SPREAD.....	Interest rate spread over the interbank rate EONIA
t.....	Time of Index Calculation (current calculation day)
t-1.....	Last calculation day before t
T.....	Time of last update to the interest rate spread (monthly)
d.....	Number of days between time t and time t-1

$$Capitalization'_{t-1} = \sum_{i=1}^N [(P'_{i,t-1} - Div_{i,t-1}) * Q'_{i,t-1} * FF'_{i,t-1} * RF'_{i,t-1}]$$

P' _i	Price of i th Stock after adjustment (except dividend adjustment)
Div _i	Dividend of i th Stock
Q' _i	Number of Shares of i th stock after adjustment
FF' _i	Free Float Factor of i th stock after adjustment
RF' _i	Representation Factor of i th stock after adjustment
N.....	Number of Companies contained in the index
t.....	Time of Index Calculation (current calculation day)
t-1.....	Last calculation day before t



2. Examples

2.1. Calculation of a Price Index

Example: Calculation of CECE Composite Index in EUR (Composition of 17 February 2011)

Company	Country	Shares	FFF	RF	Currency	Price local	Capitalization in EUR
KOMERCNI BANKA	CZ	38,009,852	0.40	1.00	EURCZK	4,160.00	2,598,804,057
CENTRAL EUROP. MEDIA ENT.	CZ	56,846,176	0.60	1.00	EURCZK	332.10	465,420,402
CEZ	CZ	537,989,759	0.40	0.55	EURCZK	809.00	3,934,316,068
ERSTE GROUP BANK AG	CZ	378,176,721	0.70	0.39	EURCZK	930.80	3,948,551,885
NEW WORLD RESOURCES	CZ	264,433,565	0.40	1.00	EURCZK	266.00	1,156,064,974
PEGAS NONWOVENS	CZ	9,229,400	1.00	1.00	EURCZK	449.00	170,272,238
TELEFONICA O2 CR	CZ	322,089,890	0.40	1.00	EURCZK	394.50	2,088,373,278
PHILIP MORRIS	CZ	1,913,698	0.30	1.00	EURCZK	9,450.00	222,920,753
EGIS	HU	7,785,715	0.50	1.00	EURHUF	21,650.00	311,987,728
FHB MORTGAGE BANK	HU	66,000,000	0.50	1.00	EURHUF	1,044.00	127,533,871
RICHTER GEDEON	HU	18,637,486	0.70	0.66	EURHUF	39,505.00	1,259,193,509
MOL	HU	104,518,484	0.40	0.45	EURHUF	22,300.00	1,553,036,184
MAGYAR TELEKOM	HU	1,042,742,543	0.50	1.00	EURHUF	530.00	1,022,902,102
OTP BANK	HU	280,000,000	0.80	0.31	EURHUF	5,730.00	1,472,907,381
ASSECO POLAND	PL	77,565,530	0.70	1.00	EURPLN	49.80	690,395,602
BANK PEKAO	PL	262,364,326	0.50	1.00	EURPLN	160.50	5,375,906,335
BIOTON	PL	5,290,376,196	0.80	1.00	EURPLN	0.17	183,707,689
BRE BANK	PL	42,056,277	0.40	1.00	EURPLN	310.00	1,331,540,495
BZ WBK	PL	73,076,013	0.30	1.00	EURPLN	223.70	1,252,171,896
GETIN HOLDING	PL	713,785,319	0.40	1.00	EURPLN	12.50	911,254,078
KGHM	PL	200,000,000	0.70	1.00	EURPLN	165.50	5,915,996,425
GRUPA LOTOS	PL	113,630,889	0.50	1.00	EURPLN	40.50	587,520,874
POLIMEX MOSTOSTAL	PL	464,285,575	0.70	1.00	EURPLN	3.57	296,246,560
POLSKA GRUPA ENERGETYCZNA	PL	1,869,783,727	0.40	1.00	EURPLN	22.65	4,325,351,862
PGNIG	PL	5,899,944,750	0.30	1.00	EURPLN	3.72	1,681,179,201
PKN ORLEN	PL	427,709,061	0.70	1.00	EURPLN	43.90	3,355,929,898
PKO BP	PL	740,000,000	0.90	1.00	EURPLN	41.00	6,972,041,363
PZU	PL	86,340,692	0.50	1.00	EURPLN	337.50	3,720,156,205
TELEKOM POLSKA	PL	1,335,649,021	0.50	1.00	EURPLN	16.75	2,856,136,998
TVN	PL	161,837,122	0.50	1.00	EURPLN	16.55	341,938,513
							60,129,758,424

Base Value: 746.46

Base Capitalization: 10,568,117,162.00

Adjustment Factor: 0.493006300557079

$$Index_t = Base Value * \left[\frac{\sum_{i=1}^N (P_{i,t} * Q_{i,t} * FF_{i,t} * RF_{i,t})}{Base Capitalization} \right] * AF_t$$

$$Index_t = 746.46 * \left[\frac{60,129,758,424}{10,568,117,162} \right] * 0,493006300557079$$

$$Index_t = 2,093.88$$

2.2. Calculation of a Short Index

Example:

Base Value:	1,000
Base Capitalization:	10,000,000
Leverage Factor	1
Adjustment Factor:	1
EONIA:	1.5%

Day 1:

Company	Shares	FFF	RF	Price	Capitalization
Share A	300,000	0.50	1.00	14.50	2,175,000
Share B	400,000	0.50	1.00	10.70	2,140,000
Share C	700,000	0.30	1.00	15.00	3,150,000
Share D	800,000	0.50	1.00	7.80	3,120,000
					10,585,000

$Short Index_t = 1,058.50$

Day 2:

Company	Shares	FFF	RF	Price	Capitalization
Share A	300,000	0.50	1.00	14.00	2,100,000
Share B	400,000	0.50	1.00	10.70	2,140,000
Share C	700,000	0.30	1.00	15.80	3,318,000
Share D	800,000	0.50	1.00	7.80	3,120,000
					10,678,000

$$Short Index_t = Short Index_{t-1} * \left(1 + LF * \left(\frac{Capitalization_t}{Capitalization'_{t-1}} - 1 \right) + (1 - LF) * \left(\frac{EONIA_{t-1}}{360} \right) * d \right)$$

$$Short Index_t = 1,058.50 * \left(1 + (-1) * \left(\frac{10,678,000}{10,585,000} - 1 \right) + (1 - (-1)) * \left(\frac{0.015}{360} \right) * 1 \right)$$

$Short Index_t = 1,049.29$

2.3. Calculation of a Leverage Index

Example:

Base Value:	1,000
Base Capitalization:	10,000,000
Leverage Factor	4
Adjustment Factor:	1
EONIA:	0.35%
SPREAD:	1.08%

Day 1:

Company	Shares	FFF	RF	Price	Capitalization
Share A	300,000	0.50	1.00	14.50	2,175,000
Share B	400,000	0.50	1.00	10.70	2,140,000
Share C	700,000	0.30	1.00	15.00	3,150,000
Share D	800,000	0.50	1.00	7.80	3,120,000
					10,585,000

$Leverage Index_t = 1,058.50$

Day 2:

Company	Shares	FFF	RF	Price	Capitalization
Share A	300,000	0.50	1.00	14.00	2,100,000
Share B	400,000	0.50	1.00	10.70	2,140,000
Share C	700,000	0.30	1.00	15.80	3,318,000
Share D	800,000	0.50	1.00	7.80	3,120,000
					10,678,000

$$Leverage Index_t = Leverage Index_{t-1} \left(1 + LF * \left(\frac{Capitalization_t}{Capitalization_{t-1}} - 1 \right) + (1 - LF) * \left(\frac{EONIA_{t-1} + SPREAD_t}{360} \right) * d \right)$$

$$Leverage Index_t = 1,058.50 * \left(1 + 4 * \left(\frac{10,678,000}{10,585,000} - 1 \right) + (1 - 4) * \left(\frac{0.0035 + 0.0108}{360} \right) * 1 \right)$$

$Leverage Index_t = 1,095.57$

2.4. Stock Split

Index before Stock Split Adjustment:

Company	Shares	FFF	RF	Price	Capitalization
Share A	300,000	0.50	1.00	14.00	2,100,000
Share B	400,000	0.50	1.00	10.50	2,100,000
Share C	700,000	0.30	1.00	16.00	3,360,000
Share D	800,000	0.50	1.00	7.50	3,000,000
					10,560,000

Index after Stock Split Adjustment:

Company	Shares	FFF	RF	Price	Capitalization
Share A	600,000	0.50	1.00	7.00	2,100,000
Share B	400,000	0.50	1.00	10.50	2,100,000
Share C	700,000	0.30	1.00	16.00	3,360,000
Share D	800,000	0.50	1.00	7.50	3,000,000
					10,560,000

The adjustment factor does not change because the capitalization of the index remains the same.

The adjustment of a reverse stock split is done analogously.

2.5. Capital Increase

Share B has decided to issue 5,000,000 shares at 10 EUR so that the total number of shares will rise from 6,000,000 to 11,000,000 shares.

Base Value: 1,000.00
 Base Capitalization: 100,000,000.00
 Adjustment Factor: 1.00

Index before adjustment:

Company	Shares	FFF	RF	Price	Capitalization
Share A	10,000,000	0.50	1.00	12.00	60,000,000
Share B	6,000,000	0.50	1.00	10.00	30,000,000
Share C	7,000,000	0.30	1.00	15.00	31,500,000
Share D	8,000,000	0.50	1.00	8.00	32,000,000
					153,500,000

$$Index_t = Base\ Value * \left[\frac{\sum_{i=1}^N (P_{i,t} * Q_{i,t} * FF_{i,t} * RF_{i,t})}{Base\ Capitalization} \right] * AF_t$$

- Index..... Value of the Index
- P_i..... Price of ith Stock in EUR
- Q_i..... Number of Shares of ith stock
- FF_i..... Free Float Factor of ith stock
- RF_i..... Representation Factor of ith stock
- N..... Number of Companies contained in the index
- AF..... Adjustment Factor of the Index
- t..... Time of Index Calculation

$$Index_t = 1,000 * \left[\frac{153,500,000}{100,000,000} \right] * 1$$

$$Index_t = 1,535.00$$

Index after adjustment:

Company	Shares	FFF	RF	Price	Capitalization
Share A	10,000,000	0.50	1.00	12.00	60,000,000
Share B	11,000,000	0.50	1.00	10.00	55,000,000
Share C	7,000,000	0.30	1.00	15.00	31,500,000
Share D	8,000,000	0.50	1.00	8.00	32,000,000
					178,500,000

A new Adjustment Factor needs to be calculated after the close of the index calculation because the index capitalization has changed.

$$AF'_t = AF_t * \left[\frac{Capitalization_t}{Capitalization'_t} \right]$$

Capitalization Capitalization of the Index before adjustment

Capitalization' Capitalization of the Index after adjustment

t Time of Index Calculation (adjustment day)

$$AF'_t = 1 * \left[\frac{153,500,000}{178,500,000} \right]$$

$$AF'_t = 0.859943977591036$$

With the new Adjustment Factor, the Index value will remain the same.

$$Index'_t = 1,000 * \left[\frac{178,500,000}{100,000,000} \right] * 0.859943977591036$$

$$Index'_t = 1,535.00$$

2.6. Dividend Adjustment

Base Value: 1,000
 Base Capitalization: 10,000,000
 Adjustment Factor: 1

Share A pays a dividend of 0.50.

Index before Dividend Adjustment:

Company	Shares	FFF	RF	Price	Capitalization
Share A	300,000	0.50	1.00	14.50	2,175,000
Share B	400,000	0.50	1.00	10.70	2,140,000
Share C	700,000	0.30	1.00	15.80	3,318,000
Share D	800,000	0.50	1.00	7.80	3,120,000
					10,753,000

$$Index_t = Base\ Value * \left[\frac{\sum_{i=1}^N (P_{i,t} * Q_{i,t} * FF_{i,t} * RF_{i,t})}{Base\ Capitalization} \right] * AF_t$$

Index..... Value of the Index
 P_i..... Price of ith Stock
 Q_i..... Number of Shares of ith stock
 FF_i..... Free Float Factor of ith stock
 RF_i..... Representation Factor of ith stock
 N..... Number of Companies contained in the index
 AF..... Adjustment Factor of the Index
 t..... Time of Index Calculation

$$Index_t = 1,000 * \left[\frac{10,753,000}{10,000,000} \right] * 1$$

$$Index_t = 1,075.30$$

Index after Dividend Adjustment:

Company	Shares	FFF	RF	Price	Capitalization
Share A	300,000	0.50	1.00	14.00	2,100,000
Share B	400,000	0.50	1.00	10.70	2,140,000
Share C	700,000	0.30	1.00	15.80	3,318,000
Share D	800,000	0.50	1.00	7.80	3,120,000
					10,678,000

A new Adjustment Factor needs to be calculated because the index capitalization has changed.



$$AF'_t = AF_t * \left[\frac{\text{Capitalization}_t}{\text{Capitalization}'_t} \right]$$

Capitalization..... Capitalization of the Index before adjustment

Capitalization' Capitalization of the Index after adjustment

t Time of Index Calculation (adjustment day)

$$AF'_t = 1 * \left[\frac{10,753,000}{10,678,000} \right]$$

$$AF'_t = 1.007023787$$

$$\text{Index}'_t = 1,000 * \left[\frac{10,753,000}{10,678,000} \right] * 1.007023787$$

$$\text{Index}'_t = 1,075.30$$



2.7. Dividend Point Calculation

Base Value (Base Index)	1,000
Base Capitalization (Base Index):	1,000,000,000
Adjustment Factor (Base Index):	1.00
Value of DVP index t-1	65.12

Share A pays a dividend of 1.75.

Index before Dividend Adjustment:

Company	Shares	FFF	RF	Price	Capitalization
Share A	300,000	0.50	1.00	14.50	2,175,000

Calculation of the Dividend Capitalization:

$$DA_t = \sum_{i=1}^N Div_{i,t} * Q_{i,t} * FF_{i,t} * RF_{i,t}$$

- DA Dividend Capitalization
- Div_i..... Dividend of ith Stock
- Q_i..... Number of Shares of ith stock
- FF_i..... Free Float Factor of ith stock
- RF_i..... Representation Factor of ith stock
- N..... Number of Companies contained in the index
- t..... Time of Index Calculation

$$DA_t = 1.75 * 300,000 * 0.50 * 1.00$$

$$DA_t = 262,500$$

Calculation of the dividend point index:

$$DVP_t = DVP_{t-1} + Base Value \left[\frac{DA_t}{Base Capitalization} \right] * AF_t$$

- DVP_t Value of dividend point index on day t
- DVP_{t-1} Value of dividend point index on day t-1
- Base Capitalization.. Base Capitalization of base index on day t
- AF_t Adjustment Factor of base index on day t
- Base Value Base Value of base index

$$DVP_t = 65.12 + 1,000 \left[\frac{262,500}{1,000,000,000} \right] * 1$$

$$DVP_t = 65.12 + 0.26$$

$$DVP_t = 65.38$$

2.8. Inclusion of a Company

Base Value: 1,000.00
 Base Capitalization: 10,000,000.00
 Adjustment Factor: 1.00

Index before Inclusion of Share B:

Company	Shares	FFF	RF	Price	Capitalization
Share A	300,000	0.50	1.00	14.50	2,175,000
Share C	700,000	0.30	1.00	15.80	3,318,000
Share D	800,000	0.50	1.00	7.80	3,120,000
					8,613,000

$$Index_t = Base\ Value * \left[\frac{\sum_{i=1}^N (P_{i,t} * Q_{i,t} * FF_{i,t} * RF_{i,t})}{Base\ Capitalization} \right] * AF_t$$

Index..... Value of the Index
 P_i..... Price of ith Stock
 Q_i..... Number of Shares of ith stock
 FF_i..... Free Float Factor of ith stock
 RF_i..... Representation Factor of ith stock
 N..... Number of Companies contained in the index
 AF..... Adjustment Factor of the Index
 t..... Time of Index Calculation

$$Index_t = 1,000 * \left[\frac{8,613,000}{10,000,000} \right] * 1$$

$$Index_t = 861.30$$

Index after Inclusion of Share B:

Company	Shares	FFF	RF	Price	Capitalization
Share A	300,000	0.50	1.00	14.50	2,175,000
Share B	400,000	0.50	1.00	10.70	2,140,000
Share C	700,000	0.30	1.00	15.80	3,318,000
Share D	800,000	0.50	1.00	7.80	3,120,000
					10,753,000

$$AF'_t = AF_t * \left[\frac{Capitalization_t}{Capitalization'_t} \right]$$

Capitalization Capitalization of the Index before adjustment

Capitalization' Capitalization of the Index after adjustment

t Time of Index Calculation (adjustment day)

$$AF'_t = 1 * \left[\frac{8,613,000}{10,753,000} \right]$$

$$AF'_t = 0.800985771412629$$

$$Index'_t = 1,000 * \left[\frac{10,753,000}{10,000,000} \right] * 0.800985771412629$$

$$Index'_t = 861.30$$

2.9. Exclusion of a Company

Base Value: 1,000.00
 Base Capitalization: 10,000,000.00
 Adjustment Factor: 1.00

Index before Exclusion of Share B:

Company	Shares	FFF	RF	Price	Capitalization
Share A	300,000	0.50	1.00	14.50	2,175,000
Share B	400,000	0.50	1.00	10.70	2,140,000
Share C	700,000	0.30	1.00	15.80	3,318,000
Share D	800,000	0.50	1.00	7.80	3,120,000
					10,753,000

$$Index_t = Base\ Value * \left[\frac{\sum_{i=1}^N (P_{i,t} * Q_{i,t} * FF_{i,t} * RF_{i,t})}{Base\ Capitalization} \right] * AF_t$$

Index..... Value of the Index
 P_i..... Price of ith Stock
 Q_i..... Number of Shares of ith stock
 FF_i..... Free Float Factor of ith stock
 RF_i..... Representation Factor of ith stock
 N..... Number of Companies contained in the index
 AF..... Adjustment Factor of the Index
 t..... Time of Index Calculation

$$Index_t = 1,000 * \left[\frac{10,753,000}{10,000,000} \right] * 1$$

$$Index_t = 1,075.30$$

Index after Exclusion of Share B:

Company	Shares	FFF	RF	Price	Capitalization
Share A	300,000	0.50	1.00	14.50	2,175,000
Share C	700,000	0.30	1.00	15.80	3,318,000
Share D	800,000	0.50	1.00	7.80	3,120,000
					8,613,000

$$AF'_t = AF_t * \left[\frac{Capitalization_t}{Capitalization'_t} \right]$$

Capitalization Capitalization of the Index before adjustment

Capitalization' Capitalization of the Index after adjustment

t Time of Index Calculation (adjustment day)

$$AF'_t = 1 * \left[\frac{10,753,000}{8,613,000} \right]$$

$$AF'_t = 1.24846162777197$$

$$Index'_t = 1,000 * \left[\frac{8,613,000}{10,000,000} \right] * 1.24846162777197$$

$$Index'_t = 1,075.30$$

3. Contact Details

The Index Management of Wiener Börse AG is responsible for the ongoing operations, controlling the index calculation and the passing on of index values via the data providers. Furthermore, the Index Management informs market participants about any adjustments of the composition of the index and/or calculation parameters. The Index Management implements Index Committee decisions and is responsible for contacting voting members if required.

For any inquiries relating to the indices and licensing, please contact us:

Index Management

phone: +43-1-53165-222

e-mail: idx_mgmt@wienerborse.at

www.indices.cc

www.wienerborse.at

www.ceeseg.com

Licences

phone: +43-1-53165-169 or 198

e-mail: licences@wienerborse.at

www.indices.cc

www.wienerborse.at

www.ceeseg.com