

**18/2024/GPW (50)** May 22, 2024

This report is prepared for the Warsaw Stock Exchange SA within the framework of the Analytical Coverage Support Program 4.0.

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# Ferro

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**18/2024/GPW (50) May 22, 2024**

**Analyst:** Sylwia Jaśkiewicz, CFA

**Sector:** Construction materials

**Fundamental rating:** Buy (→)

**Market relative:** Neutral (→)

**Price:** PLN 38.30

**12M EFV:** PLN 41.8 (↑)

**Market Cap:** US\$ 207 m

**Bloomberg code:** FRO PW

**Av. daily turnover:** US\$ 0.08 m

**12M range:** PLN 26.40-38.40

**Free float:** 100%

# Ferro

## Recommended action

We uphold our recommendations: LT fundamental Buy and ST relative Neutral for Ferro. The Group's 1Q24 operating results (quite flat yoy) are in line with our expectations. Our 12M EFV increases by 6% to PLN 41.8 from PLN 39.3 per share previously, mainly due to changed assumptions regarding a level of inventories and net debt and valuation update as well.

## 1Q24 financial results summary

1Q24 revenues at PLN 199 million (down 4% yoy) were lower than we expected (PLN 200 million). The segments delivered sales as follows:

- the segment of batteries and accessories: PLN 99 million, +0.2% yoy,
- the installation fittings segment: PLN 61 million, down -14% yoy,
- the heating systems segment: PLN 37 million, +7% yoy.

We assumed a -5%/ 0%/ -9% yoy change of sales in the segments of batteries and accessories/ installation fittings/ heating systems.

In 1Q24 the Group's sales in Czechia/ Slovakia/ Romania/ other countries dropped by 12%/19%/10%/8% yoy to PLN 36/ 11/ 37/ 18 million while in Poland and Hungary they grew by 5% and 11% yoy to PLN 87 million and PLN 9 million, respectively, vs our expectations of sales in Poland/ Czechia/ Slovakia/ Romania/ Hungary/ other countries to reach PLN 81/ 37/ 12/ 43/ 8/ 19 million (-3%/ -9%/ -15%/ +5%/ -2%/ -7% yoy).

The EBIT margin at 13.1% was close to our expectations, as we assumed a profitability increase

## Guide to adjusted profits

No factors necessitating adjustments.

## Key data

IFRS consolidated		2023	2024E	2025E	2026E
Sales	PLN m	803.2	891.6	1,007.5	1,138.4
EBITDA	PLN m	117.8	127.0	144.9	163.8
EBIT	PLN m	100.1	106.6	123.8	140.7
Net income	PLN m	67.0	73.4	89.3	103.7
EPS	PLN	3.16	3.45	4.20	4.88
Adj EPS yoy chg	%	2	9	22	16
Net debt	PLN m	96.2	111.7	116.3	121.4
P/E	x	12.1	11.1	9.1	7.8
EV/EBITDA	x	7.7	7.3	6.4	5.7
EV/EBIT	x	9.1	8.7	7.5	6.6
DPS	PLN	1.50	3.16	2.59	3.15
Gross dividend yield	%	4.0	8.3	6.8	8.2
Number of shares (eop)	m	21.2	21.2	21.2	21.2

Source: Company, DM BOŚ SA estimates

## Stock performance



Source: Bloomberg

## Recent events

1. Release of FY23 consolidated financial results: March 27
2. Release of consolidated 1Q24 financial results: May 22

## Upcoming events

1. Release of consolidated 1H24 financial results: September 17
2. Release of 3Q24 consolidated results: November 13

to 12.9% vs 12.0% in 1Q23. Own costs of goods sold and use of materials and energy turned to be lower than we assumed while wages were higher vs our expectations.

In 1Q24 the segment

- of batteries and accessories delivered profit at PLN 41 million (up 19% yoy);
- of installation fittings delivered profit at PLN 21 million (down 2% yoy);
- of heating systems delivered profit at PLN 15 million (up 7% yoy).

The Group's EBIT at PLN 26 million (up 5% yoy) was in line with our forecast.

Ferro's net financial costs at PLN -4 million exceeded our expectations at PLN -3 million, as we assumed negative FX differences at PLN 1 million.

In consequence, the Group's PBT hit PLN 22 million (flat yoy) and NI arrived at PLN 17 million (down 4% yoy; higher yoy effective tax rate) vs PLN 19 million according to our forecasts (up 7% yoy).

At the end of 1Q24 the inventories stood at PLN 220 million (down 7% qoq), net debt reached PLN 74 million vs PLN 96 million at the end of 2023. The Group's operating/ investing cash flows reached PLN +30/ -3 million vs PLN +4/ -5 million in 1Q23.

### Financial forecasts

We modified our forecasts regarding a dividend payout, net debt and inventories given the net debt and inventories level at 1Q24-end and announced dividend payout this year (at PLN 67 million, DPS at PLN 3.16 vs PLN 1.89 expected by us).

### Valuation

Our 12M EFV constituting a 50%–50% mix of DCF FCFF method and peer-relative valuation, increases by 6% to PLN 41.8 from PLN 39.3 per share previously. The DCF FCF/peer-relative valuation yields PLN 51/ 33 per share (previously PLN 47/ 31 per share). We introduced changes into the risk free rate, our financial forecasts, peer valuation, and valuation horizon forward shift in time.

#### Risk factors

1. Economic slowdown in Europe
2. Falling demand for new flats
3. Falling frequency of renovations
4. Qualified workforce shortage
5. Pressure on salaries
6. Volatile raw materials prices (of copper and zinc, in particular)
7. Unfavorable/volatile FX rates (currency risk when PLN and CZK weaken against US\$ and EUR)
8. Lack of stability in the region
9. Temporary higher inventories
10. High interest rates

#### Catalysts

1. Higher demand in Poland and neighboring countries
2. Expansion in European countries
3. Strengthening position on the existing markets
4. New logistic center in southern Europe
5. New products (expanding the product offer)
6. Favorable FX rates and raw materials prices
7. Acquisitions in attractive segments
8. Implementation of the adopted strategy F1R2

## BASIC DEFINITIONS

**A/R turnover** (in days) =  $365/(\text{sales}/\text{average A/R})$   
**Inventory turnover** (in days) =  $365/(\text{COGS}/\text{average inventory})$   
**A/P turnover** (in days) =  $365/(\text{COGS}/\text{average A/P})$   
**Current ratio** =  $(\text{current assets} - \text{ST deferred assets})/\text{current liabilities}$   
**Quick ratio** =  $(\text{current assets} - \text{ST deferred assets} - \text{inventory})/\text{current liabilities}$   
**Interest coverage** =  $(\text{pre-tax profit before extraordinary items} + \text{interest payable})/\text{interest payable}$   
**Gross margin** =  $\text{gross profit on sales}/\text{sales}$   
**EBITDA margin** =  $\text{EBITDA}/\text{sales}$   
**EBIT margin** =  $\text{EBIT}/\text{sales}$   
**Pre-tax margin** =  $\text{pre-tax profit}/\text{sales}$   
**Net margin** =  $\text{net profit}/\text{sales}$   
**ROE** =  $\text{net profit}/\text{average equity}$   
**ROA** =  $(\text{net income} + \text{interest payable})/\text{average assets}$   
**EV** =  $\text{market capitalization} + \text{interest bearing debt} - \text{cash and equivalents}$   
**EPS** =  $\text{net profit}/\text{no. of shares outstanding}$   
**CE** =  $\text{net profit} + \text{depreciation}$   
**Dividend yield** (gross) =  $\text{pre-tax DPS}/\text{stock market price}$   
**Cash sales** =  $\text{accrual sales corrected for the change in A/R}$   
**Cash operating expenses** =  $\text{accrual operating expenses corrected for the changes in inventories and A/P, depreciation, cash taxes and changes in the deferred taxes}$

DM BOŚ S.A. generally values the covered non bank companies via two methods: comparative method and DCF method (discounted cash flows). The advantage of the former is the fact that it incorporates the current market assessment of the value of the company's peers. The weakness of the comparative method is the risk that the valuation benchmark may be mispriced. The advantage of the DCF method is its independence from the current market valuation of the comparable companies. The weakness of this method is its high sensitivity to undertaken assumptions, especially those related to the residual value calculation. Please note that we also resort to other valuation techniques (e.g. NAV-, DDM- or SOTP-based), should it prove appropriate in a given case.

## KEY TO INVESTMENT RANKINGS

This is a guide to expected price performance in absolute terms over the next 12 months:

**Buy** – fundamentally undervalued (upside to 12M EFV in excess of the cost of equity) + catalysts which should close the valuation gap identified;  
**Hold** – either (i) fairly priced, or (ii) fundamentally undervalued/overvalued but lacks catalysts which could close the valuation gap;  
**Sell** – fundamentally overvalued (12M EFV < current share price + 1-year cost of equity) + catalysts which should close the valuation gap identified.

This is a guide to expected relative price performance:

**Overweight** – expected to perform better than the benchmark (WIG) over the next quarter in relative terms  
**Neutral** – expected to perform in line with the benchmark (WIG) over the next quarter in relative terms  
**Underweight** – expected to perform worse than the benchmark (WIG) over the next quarter in relative terms

The recommendation tracker presents the performance of DM BOŚ S.A.'s recommendations. A recommendation expires on the day it is altered or on the day 12 months after its issuance, whichever comes first.

Relative performance compares the rate of return on a given recommended stock in the period of the recommendation's validity (i.e. from the date of issuance to the date of alteration or – in case of maintained recommendations – from the date of issuance to the current date) in a relation to the rate of return on the benchmark in this time period. The WIG index constitutes the benchmark. For recommendations that expire by an alteration or are maintained, the ending values used to calculate their absolute and relative performance are: the stock closing price on the day the recommendation expires/ is maintained and the closing value of the benchmark on that date. For recommendations that expire via a passage of time, the ending values used to calculate their absolute and relative performance are: the average of the stock closing prices for the day the recommendation elapses and four directly preceding sessions and the average of the benchmark's closing values for the day the recommendation expires and four directly preceding sessions.

### Distribution of DM BOŚ's current recommendations

	Buy	Hold	Sell	Suspended	Under revision	Not rated
Numbers	43	25	10	5	0	4
Percentage	49%	29%	11%	6%	0%	5%

### Distribution of DM BOŚ's current market relative recommended weightings

	Overweight	Neutral	Underweight	Suspended	Under revision	Not rated
Numbers	26	38	14	5	0	4
Percentage	30%	44%	16%	6%	0%	5%

## Banks

**Net Interest Margin (NIM)** =  $\text{net interest income}/\text{average assets}$   
**Non interest income** =  $\text{fees\&commissions} + \text{result on financial operations (trading gains)} + \text{FX gains}$   
**Interest Spread** =  $(\text{interest income}/\text{average interest earning assets})/(\text{interest cost}/\text{average interest bearing liabilities})$   
**Cost/Income** =  $(\text{general costs} + \text{depreciation})/(\text{profit on banking activity} + \text{other net operating income})$   
**ROE** =  $\text{net profit}/\text{average equity}$   
**ROA** =  $\text{net income}/\text{average assets}$   
**Non performing loans (NPL)** = loans in 'basket 3' category  
**NPL coverage ratio** =  $\text{loan loss provisions}/\text{NPL}$   
**Net provision charge** =  $\text{provisions created} - \text{provisions released}$

DM BOŚ S.A. generally values the covered banks via two methods: comparative method and fundamental target fair P/E and target fair P/BV multiples method. The advantage of the former is the fact that it incorporates the current market assessment of the value of the company's peers. The weakness of the comparative method is the risk that the valuation benchmark may be mispriced. The advantage of the fundamental target fair P/E and target fair P/BV multiples method is its independence of the current market valuation of the comparable companies. The weakness of this method is its high sensitivity to undertaken assumptions, especially those related to the residual value calculation. Assumptions used in valuation can change, influencing thereby the level of the valuation. Among the most important assumptions are: GDP growth, forecasted level of inflation, changes in interest rates and currency prices, employment level and change in wages, demand on the analysed company products, raw material prices, competition, standing of the main customers and suppliers, legislation changes, etc. Changes in the environment of the analysed company are monitored by analysts involved in the preparation of the recommendation, estimated, incorporated in valuation and published in the recommendation whenever needed.

### Distribution of DM BOŚ's current recommendations for the companies which DM BOŚ has supplied with material investment services within the last 12 months

	Buy	Hold	Sell	Suspended	Under revision	Not rated
Numbers	8	4	1	1	0	3
Percentage	47%	24%	6%	6%	0%	18%

### Distribution of DM BOŚ's current market relative recommended weightings for the companies which DM BOŚ has supplied with material investment services within the last 12 months

	Overweight	Neutral	Underweight	Suspended	Under revision	Not rated
Numbers	4	7	2	1	0	3
Percentage	24%	41%	12%	6%	0%	18%

LT fundamental recommendation tracker

Analyst	Recommendation	Report date	Reiteration date	Distribution date	Expiry date	Performance	Relative performance	Price at issue/reiteration*	EFV (12 months)	
<b>Ferro</b>										
Sylwia Jaśkiewicz	Hold	-	21.07.2019	-	22.07.2019	04.12.2019	11%	20%	13.70	17.10 -
Sylwia Jaśkiewicz	-	→	-	30.07.2019	31.07.2019	-	-	-	13.50	17.10 →
Sylwia Jaśkiewicz	-	→	-	01.09.2019	02.09.2019	-	-	-	12.05	17.10 →
Sylwia Jaśkiewicz	-	→	-	10.09.2019	11.09.2019	-	-	-	12.10	17.10 →
Sylwia Jaśkiewicz	-	→	-	15.09.2019	16.09.2019	-	-	-	12.65	17.10 →
Sylwia Jaśkiewicz	-	→	-	13.10.2019	14.10.2019	-	-	-	13.40	17.10 →
Sylwia Jaśkiewicz	-	→	-	24.10.2019	25.10.2019	-	-	-	13.00	17.10 →
Sylwia Jaśkiewicz	-	→	-	17.11.2019	18.11.2019	-	-	-	13.00	17.10 →
Sylwia Jaśkiewicz	-	→	-	18.11.2019	19.11.2019	-	-	-	13.00	17.10 →
Sylwia Jaśkiewicz	Buy	↑	04.12.2019	-	05.12.2019	28.01.2020	17%	15%	15.20	17.80 ↑
Sylwia Jaśkiewicz	-	→	-	08.12.2019	09.12.2019	-	-	-	15.00	17.80 →
Sylwia Jaśkiewicz	-	→	-	09.01.2020	10.01.2020	-	-	-	16.30	17.80 →
Sylwia Jaśkiewicz	Hold	↓	28.01.2020	-	29.01.2020	22.07.2020	-4%	5%	17.80	18.50 ↑
Sylwia Jaśkiewicz	-	→	-	04.02.2020	05.02.2020	-	-	-	17.90	18.50 →
Sylwia Jaśkiewicz	-	→	-	06.02.2020	07.02.2020	-	-	-	17.50	18.50 →
Sylwia Jaśkiewicz	-	→	-	03.03.2020	04.03.2020	-	-	-	15.20	18.50 →
Sylwia Jaśkiewicz	-	→	-	30.03.2020	31.03.2020	-	-	-	12.25	18.50 →
Sylwia Jaśkiewicz	-	→	-	22.04.2020	23.04.2020	-	-	-	14.00	18.50 →
Sylwia Jaśkiewicz	-	→	-	23.04.2020	24.04.2020	-	-	-	14.00	18.50 →
Sylwia Jaśkiewicz	-	→	-	19.05.2020	20.05.2020	-	-	-	13.65	18.50 →
Sylwia Jaśkiewicz	-	→	-	15.06.2020	16.06.2020	-	-	-	16.60	18.50 →
Sylwia Jaśkiewicz	-	→	-	13.07.2020	14.07.2020	-	-	-	17.90	18.50 →
Sylwia Jaśkiewicz	Buy	↑	22.07.2020	-	23.07.2020	16.04.2021	75%	51%	17.00	20.30 ↑
Sylwia Jaśkiewicz	-	→	-	01.09.2020	02.09.2020	-	-	-	18.60	20.30 →
Sylwia Jaśkiewicz	-	→	-	17.09.2020	18.09.2020	-	-	-	18.90	20.30 →
Sylwia Jaśkiewicz	-	→	-	29.09.2020	30.09.2020	-	-	-	18.70	19.90 ↓
Sylwia Jaśkiewicz	-	→	-	08.10.2020	09.10.2020	-	-	-	19.00	19.90 →
Sylwia Jaśkiewicz	-	→	-	03.11.2020	04.11.2020	-	-	-	17.30	22.00 ↑
Sylwia Jaśkiewicz	-	→	-	08.11.2020	09.11.2020	-	-	-	17.25	22.00 →
Sylwia Jaśkiewicz	-	→	-	19.11.2020	20.11.2020	-	-	-	18.40	23.40 ↑
Sylwia Jaśkiewicz	-	→	-	26.11.2020	27.11.2020	-	-	-	20.00	23.40 →
Sylwia Jaśkiewicz	-	→	-	06.12.2020	07.12.2020	-	-	-	24.80	25.70 ↑
Sylwia Jaśkiewicz	-	→	-	05.01.2021	05.01.2021	-	-	-	25.50	25.70 →
Sylwia Jaśkiewicz	-	→	-	28.01.2021	29.01.2021	-	-	-	26.50	25.70 →
Sylwia Jaśkiewicz	-	→	-	09.02.2021	10.02.2021	-	-	-	25.70	30.80 ↑
Sylwia Jaśkiewicz	-	→	-	28.02.2021	01.03.2021	-	-	-	26.10	30.80 →
Sylwia Jaśkiewicz	-	→	-	31.03.2021	01.04.2021	-	-	-	27.00	30.80 →
Sylwia Jaśkiewicz	Buy	→	16.04.2021	-	16.04.2021	14.04.2022	16%	9%	29.30	30.80 →
Sylwia Jaśkiewicz	-	→	-	10.05.2021	11.05.2021	-	-	-	29.80	34.10 ↑
Sylwia Jaśkiewicz	-	→	-	27.05.2021	28.05.2021	-	-	-	32.50	34.10 →
Sylwia Jaśkiewicz	-	→	-	30.05.2021	31.05.2021	-	-	-	33.00	34.10 →
Sylwia Jaśkiewicz	-	→	-	09.07.2021	09.07.2021	-	-	-	35.30	34.10 →
Sylwia Jaśkiewicz	-	→	-	12.08.2021	13.08.2021	-	-	-	38.00	41.70 ↑
Sylwia Jaśkiewicz	-	→	-	31.08.2021	31.08.2021	-	-	-	40.50	41.70 →
Sylwia Jaśkiewicz	-	→	-	30.09.2021	01.10.2021	-	-	-	35.60	41.70 →
Sylwia Jaśkiewicz	-	→	-	07.10.2021	07.10.2021	-	-	-	38.90	41.70 →
Sylwia Jaśkiewicz	-	→	-	02.11.2021	03.11.2021	-	-	-	37.50	41.70 →
Sylwia Jaśkiewicz	-	→	-	04.11.2021	04.11.2021	-	-	-	37.20	41.70 →
Sylwia Jaśkiewicz	-	→	-	29.11.2021	30.11.2021	-	-	-	34.60	41.70 →
Sylwia Jaśkiewicz	-	→	-	05.12.2021	06.12.2021	-	-	-	33.00	39.60 ↓
Sylwia Jaśkiewicz	-	→	-	16.01.2022	17.01.2022	-	-	-	34.80	39.60 →
Sylwia Jaśkiewicz	-	→	-	01.02.2022	02.02.2022	-	-	-	32.00	39.60 →
Sylwia Jaśkiewicz	-	→	-	07.02.2022	07.02.2022	-	-	-	32.50	39.60 →
Sylwia Jaśkiewicz	-	→	-	28.02.2022	28.02.2022	-	-	-	29.00	39.60 →
Sylwia Jaśkiewicz	-	→	-	30.03.2022	31.03.2022	-	-	-	30.90	39.60 →
Sylwia Jaśkiewicz	Buy	→	14.04.2022	-	14.04.2022	03.10.2022	-21%	9%	31.70	39.60 →
Sylwia Jaśkiewicz	-	→	-	20.04.2022	21.04.2022	-	-	-	31.30	37.10 ↓
Sylwia Jaśkiewicz	-	→	-	25.05.2022	26.05.2022	-	-	-	27.20	37.10 →
Sylwia Jaśkiewicz	-	→	-	26.05.2022	26.05.2022	-	-	-	28.20	37.10 →
Sylwia Jaśkiewicz	-	→	-	15.07.2022	15.07.2022	-	-	-	25.50	37.10 →
Sylwia Jaśkiewicz	-	→	-	24.07.2022	25.07.2022	-	-	-	24.30	37.10 →
Sylwia Jaśkiewicz	-	→	-	16.08.2022	16.08.2022	-	-	-	26.60	37.10 →
Sylwia Jaśkiewicz	-	→	-	02.09.2022	02.09.2022	-	-	-	25.20	37.10 →
Sylwia Jaśkiewicz	-	→	-	20.09.2022	21.09.2022	-	-	-	25.50	37.10 →
Sylwia Jaśkiewicz	-	→	-	26.09.2022	27.09.2022	-	-	-	23.10	37.10 →
Sylwia Jaśkiewicz	Hold	↓	03.10.2022	-	04.10.2022	27.09.2023	25%	-11%	23.50	28.70 ↓
Sylwia Jaśkiewicz	-	→	-	07.10.2022	07.10.2022	-	-	-	23.30	28.70 →
Sylwia Jaśkiewicz	-	→	-	28.10.2022	28.10.2022	-	-	-	22.80	28.70 →
Sylwia Jaśkiewicz	-	→	-	20.11.2022	21.11.2022	-	-	-	24.00	28.70 →
Sylwia Jaśkiewicz	-	→	-	01.12.2022	02.12.2022	-	-	-	22.60	28.70 →
Sylwia Jaśkiewicz	-	→	-	04.12.2022	05.12.2022	-	-	-	23.00	28.70 →
Sylwia Jaśkiewicz	-	→	-	13.01.2023	13.01.2023	-	-	-	23.50	28.70 →
Sylwia Jaśkiewicz	-	→	-	03.02.2023	03.02.2023	-	-	-	25.00	28.70 →
Sylwia Jaśkiewicz	-	→	-	16.02.2023	17.02.2023	-	-	-	24.50	28.70 →
Sylwia Jaśkiewicz	-	→	-	10.03.2023	10.03.2023	-	-	-	24.10	28.70 →
Sylwia Jaśkiewicz	-	→	-	30.03.2023	31.03.2023	-	-	-	25.50	28.70 →
Sylwia Jaśkiewicz	-	→	-	13.04.2023	13.04.2023	-	-	-	26.70	28.70 →
Sylwia Jaśkiewicz	-	→	-	28.04.2023	28.04.2023	-	-	-	27.40	28.70 →
Sylwia Jaśkiewicz	-	→	-	29.05.2023	29.05.2023	-	-	-	30.50	28.70 →
Sylwia Jaśkiewicz	-	→	-	29.05.2023	29.05.2023	-	-	-	30.50	28.70 →
Sylwia Jaśkiewicz	-	→	-	14.07.2023	14.07.2023	-	-	-	30.90	28.70 →
Sylwia Jaśkiewicz	-	→	-	31.07.2023	01.08.2023	-	-	-	30.00	30.10 ↑
Sylwia Jaśkiewicz	-	→	-	02.08.2023	03.08.2023	-	-	-	30.70	30.10 →

**LT fundamental recommendation tracker**

Analyst	Recommendation	Report date	Reiteration date	Distribution date	Expiry date	Performance	Relative performance	Price at issue/reiteration*	EFV (12 months)	
Sylwia Jaškiewicz	-	→	-	31.08.2023	31.08.2023	-	-	29.40	30.10 →	
Sylwia Jaškiewicz	-	→	-	12.09.2023	13.09.2023	-	-	28.60	30.10 →	
Sylwia Jaškiewicz	Hold	→	27.09.2023	-	28.09.2023	28.11.2023	-5%	-18%	27.90	30.10 →
Sylwia Jaškiewicz	-	→	-	12.10.2023	12.10.2023	-	-	28.80	30.10 →	
Sylwia Jaškiewicz	-	→	-	25.10.2023	25.10.2023	-	-	27.10	30.10 →	
Sylwia Jaškiewicz	-	→	-	06.11.2023	06.11.2023	-	-	27.40	30.10 →	
Sylwia Jaškiewicz	Buy	↑	28.11.2023	-	29.11.2023	Not later than 28.11.2024	44%	22%	26.60	33.30 ↑
Sylwia Jaškiewicz	-	→	-	10.12.2023	11.12.2023	-	-	31.60	34.70 ↑	
Sylwia Jaškiewicz	-	→	-	09.01.2024	09.01.2024	-	-	32.00	34.70 →	
Sylwia Jaškiewicz	-	→	-	01.02.2024	01.02.2024	-	-	32.40	34.70 →	
Sylwia Jaškiewicz	-	→	-	06.02.2024	07.02.2024	-	-	32.30	36.60 ↑	
Sylwia Jaškiewicz	-	→	-	29.02.2024	29.02.2024	-	-	30.70	36.60 →	
Sylwia Jaškiewicz	-	→	-	27.03.2024	27.03.2024	-	-	33.50	39.30 ↑	
Sylwia Jaškiewicz	-	→	-	04.04.2024	04.04.2024	-	-	34.50	39.30 →	
Sylwia Jaškiewicz	-	→	-	24.04.2024	25.04.2024	-	-	34.80	39.30 →	
Sylwia Jaškiewicz	-	→	-	06.05.2024	06.05.2024	-	-	34.00	39.30 →	
Sylwia Jaškiewicz	-	→	-	22.05.2024	23.05.2024	-	-	38.30	41.80 ↑	

\* prices at issue/reiteration are the closing prices at the report or reiteration date

Market-relative recommendation tracker

Analyst	Relative Recommendation	Report date	Reiteration date	Distribution date	Expiry date	Price at issue/reiteration*	Relative performance
<b>Ferro</b>							
Sylwia Jaśkiewicz	Neutral	21.07.2019	-	22.07.2019	18.11.2019	13.70	-2%
Sylwia Jaśkiewicz	-	-	30.07.2019	31.07.2019	-	13.50	-
Sylwia Jaśkiewicz	-	-	01.09.2019	02.09.2019	-	12.05	-
Sylwia Jaśkiewicz	-	-	10.09.2019	11.09.2019	-	12.10	-
Sylwia Jaśkiewicz	-	-	15.09.2019	16.09.2019	-	12.65	-
Sylwia Jaśkiewicz	-	-	13.10.2019	14.10.2019	-	13.40	-
Sylwia Jaśkiewicz	-	-	24.10.2019	25.10.2019	-	13.00	-
Sylwia Jaśkiewicz	-	-	17.11.2019	18.11.2019	-	13.00	-
Sylwia Jaśkiewicz	Overweight	18.11.2019	-	19.11.2019	28.01.2020	13.00	41%
Sylwia Jaśkiewicz	-	-	04.12.2019	05.12.2019	-	15.20	-
Sylwia Jaśkiewicz	-	-	08.12.2019	09.12.2019	-	15.00	-
Sylwia Jaśkiewicz	-	-	09.01.2020	10.01.2020	-	16.30	-
Sylwia Jaśkiewicz	Neutral	28.01.2020	-	29.01.2020	23.04.2020	17.80	-1%
Sylwia Jaśkiewicz	-	-	04.02.2020	05.02.2020	-	17.90	-
Sylwia Jaśkiewicz	-	-	06.02.2020	07.02.2020	-	17.50	-
Sylwia Jaśkiewicz	-	-	03.03.2020	04.03.2020	-	15.20	-
Sylwia Jaśkiewicz	-	-	30.03.2020	31.03.2020	-	12.25	-
Sylwia Jaśkiewicz	-	-	22.04.2020	23.04.2020	-	14.00	-
Sylwia Jaśkiewicz	Overweight	23.04.2020	-	24.04.2020	16.04.2021	14.00	60%
Sylwia Jaśkiewicz	-	-	19.05.2020	20.05.2020	-	13.65	-
Sylwia Jaśkiewicz	-	-	15.06.2020	16.06.2020	-	16.60	-
Sylwia Jaśkiewicz	-	-	13.07.2020	14.07.2020	-	17.90	-
Sylwia Jaśkiewicz	-	-	22.07.2020	23.07.2020	-	17.00	-
Sylwia Jaśkiewicz	-	-	01.09.2020	02.09.2020	-	18.60	-
Sylwia Jaśkiewicz	-	-	17.09.2020	18.09.2020	-	18.90	-
Sylwia Jaśkiewicz	-	-	29.09.2020	30.09.2020	-	18.70	-
Sylwia Jaśkiewicz	-	-	08.10.2020	09.10.2020	-	19.00	-
Sylwia Jaśkiewicz	-	-	03.11.2020	04.11.2020	-	17.30	-
Sylwia Jaśkiewicz	-	-	08.11.2020	09.11.2020	-	17.25	-
Sylwia Jaśkiewicz	-	-	19.11.2020	20.11.2020	-	18.40	-
Sylwia Jaśkiewicz	-	-	26.11.2020	27.11.2020	-	20.00	-
Sylwia Jaśkiewicz	-	-	06.12.2020	07.12.2020	-	24.80	-
Sylwia Jaśkiewicz	-	-	05.01.2021	05.01.2021	-	25.50	-
Sylwia Jaśkiewicz	-	-	28.01.2021	29.01.2021	-	26.50	-
Sylwia Jaśkiewicz	-	-	09.02.2021	10.02.2021	-	25.70	-
Sylwia Jaśkiewicz	-	-	28.02.2021	01.03.2021	-	26.10	-
Sylwia Jaśkiewicz	-	-	31.03.2021	01.04.2021	-	27.00	-
Sylwia Jaśkiewicz	Overweight	16.04.2021	-	16.04.2021	05.12.2021	29.30	7%
Sylwia Jaśkiewicz	-	-	10.05.2021	11.05.2021	-	29.80	-
Sylwia Jaśkiewicz	-	-	27.05.2021	28.05.2021	-	32.50	-
Sylwia Jaśkiewicz	-	-	30.05.2021	31.05.2021	-	33.00	-
Sylwia Jaśkiewicz	-	-	09.07.2021	09.07.2021	-	35.30	-
Sylwia Jaśkiewicz	-	-	12.08.2021	13.08.2021	-	38.00	-
Sylwia Jaśkiewicz	-	-	31.08.2021	31.08.2021	-	40.50	-
Sylwia Jaśkiewicz	-	-	30.09.2021	01.10.2021	-	35.60	-
Sylwia Jaśkiewicz	-	-	07.10.2021	07.10.2021	-	38.90	-
Sylwia Jaśkiewicz	-	-	02.11.2021	03.11.2021	-	37.50	-
Sylwia Jaśkiewicz	-	-	04.11.2021	04.11.2021	-	37.20	-
Sylwia Jaśkiewicz	-	-	29.11.2021	30.11.2021	-	34.60	-
Sylwia Jaśkiewicz	Neutral	05.12.2021	-	06.12.2021	03.10.2022	33.00	11%
Sylwia Jaśkiewicz	-	-	16.01.2022	17.01.2022	-	34.80	-
Sylwia Jaśkiewicz	-	-	01.02.2022	02.02.2022	-	32.00	-
Sylwia Jaśkiewicz	-	-	07.02.2022	07.02.2022	-	32.50	-
Sylwia Jaśkiewicz	-	-	28.02.2022	28.02.2022	-	29.00	-
Sylwia Jaśkiewicz	-	-	30.03.2022	31.03.2022	-	30.90	-
Sylwia Jaśkiewicz	-	-	14.04.2022	14.04.2022	-	31.70	-
Sylwia Jaśkiewicz	-	-	20.04.2022	21.04.2022	-	31.30	-
Sylwia Jaśkiewicz	-	-	25.05.2022	26.05.2022	-	27.20	-
Sylwia Jaśkiewicz	-	-	26.05.2022	26.05.2022	-	28.20	-
Sylwia Jaśkiewicz	-	-	15.07.2022	15.07.2022	-	25.50	-
Sylwia Jaśkiewicz	-	-	24.07.2022	25.07.2022	-	24.30	-
Sylwia Jaśkiewicz	-	-	16.08.2022	16.08.2022	-	26.60	-
Sylwia Jaśkiewicz	-	-	02.09.2022	02.09.2022	-	25.20	-
Sylwia Jaśkiewicz	-	-	20.09.2022	21.09.2022	-	25.50	-
Sylwia Jaśkiewicz	-	-	26.09.2022	27.09.2022	-	23.10	-
Sylwia Jaśkiewicz	Underweight	03.10.2022	-	04.10.2022	20.11.2022	23.50	-14%
Sylwia Jaśkiewicz	-	-	07.10.2022	07.10.2022	-	23.30	-
Sylwia Jaśkiewicz	-	-	28.10.2022	28.10.2022	-	22.80	-
Sylwia Jaśkiewicz	Neutral	20.11.2022	-	21.11.2022	16.02.2023	24.00	-8%
Sylwia Jaśkiewicz	-	-	01.12.2022	02.12.2022	-	22.60	-
Sylwia Jaśkiewicz	-	-	04.12.2022	05.12.2022	-	23.00	-
Sylwia Jaśkiewicz	-	-	13.01.2023	13.01.2023	-	23.50	-
Sylwia Jaśkiewicz	-	-	03.02.2023	03.02.2023	-	25.00	-
Sylwia Jaśkiewicz	Underweight	16.02.2023	-	17.02.2023	25.10.2023	24.50	1%
Sylwia Jaśkiewicz	-	-	10.03.2023	10.03.2023	-	24.10	-
Sylwia Jaśkiewicz	-	-	30.03.2023	31.03.2023	-	25.50	-
Sylwia Jaśkiewicz	-	-	13.04.2023	13.04.2023	-	26.70	-
Sylwia Jaśkiewicz	-	-	28.04.2023	28.04.2023	-	27.40	-
Sylwia Jaśkiewicz	-	-	29.05.2023	29.05.2023	-	30.50	-
Sylwia Jaśkiewicz	-	-	29.05.2023	29.05.2023	-	30.50	-
Sylwia Jaśkiewicz	-	-	14.07.2023	14.07.2023	-	30.90	-
Sylwia Jaśkiewicz	-	-	31.07.2023	01.08.2023	-	30.00	-
Sylwia Jaśkiewicz	-	-	02.08.2023	03.08.2023	-	30.70	-

**Market-relative recommendation tracker**

Analyst	Relative Recommendation	Report date	Reiteration date	Distribution date	Expiry date	Price at issue/reiteration*	Relative performance	
Sylwia Jaškiewicz	-	→	-	31.08.2023	31.08.2023	-	29.40	-
Sylwia Jaškiewicz	-	→	-	12.09.2023	13.09.2023	-	28.60	-
Sylwia Jaškiewicz	-	→	-	27.09.2023	28.09.2023	-	27.90	-
Sylwia Jaškiewicz	-	→	-	12.10.2023	12.10.2023	-	28.80	-
Sylwia Jaškiewicz	Neutral	↑	25.10.2023	-	25.10.2023	28.11.2023	27.10	-8%
Sylwia Jaškiewicz	-	→	-	06.11.2023	06.11.2023	-	27.40	-
Sylwia Jaškiewicz	Overweight	↑	28.11.2023	-	29.11.2023	24.04.2024	26.60	17%
Sylwia Jaškiewicz	-	→	-	10.12.2023	11.12.2023	-	31.60	-
Sylwia Jaškiewicz	-	→	-	09.01.2024	09.01.2024	-	32.00	-
Sylwia Jaškiewicz	-	→	-	01.02.2024	01.02.2024	-	32.40	-
Sylwia Jaškiewicz	-	→	-	06.02.2024	07.02.2024	-	32.30	-
Sylwia Jaškiewicz	-	→	-	29.02.2024	29.02.2024	-	30.70	-
Sylwia Jaškiewicz	-	→	-	27.03.2024	27.03.2024	-	33.50	-
Sylwia Jaškiewicz	-	→	-	04.04.2024	04.04.2024	-	34.50	-
Sylwia Jaškiewicz	Neutral	↓	24.04.2024	-	25.04.2024	Not later than 24.04.2025	34.80	5%
Sylwia Jaškiewicz	-	→	-	06.05.2024	06.05.2024	-	34.00	-
Sylwia Jaškiewicz	-	→	-	22.05.2024	23.05.2024	-	38.30	-

\* prices at issue/reiteration are the closing prices at the report or reiteration date



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