



ARMOUR

RESIDENTIAL REIT

ARMOUR RESIDENTIAL REIT, Inc.

Company Update

September 22, 2016

PLEASE READ: Important Regulatory and Yield Estimate Risk Disclosures

Certain statements made in this presentation regarding ARMOUR Residential REIT, Inc. (“ARMOUR” or the “Company”), and any other statements regarding ARMOUR’s future expectations, beliefs, goals or prospects constitute forward-looking statements made within the meaning of Section 21E of the Securities Exchange Act of 1934. Any statements that are not statements of historical fact (including statements containing the words “believes,” “plans,” “anticipates,” “expects,” “estimates” and similar expressions) should also be considered forward-looking statements. Forward-looking statements include but are not limited to statements regarding the projections for ARMOUR’s business and plans for future growth and operational improvements. A number of important factors could cause actual results or events to differ materially from those indicated by such forward-looking statements. ARMOUR assumes no obligation to update the information in this communication, except as otherwise required by law. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof.

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Actual realized yields, durations and net durations described herein will depend on a number of factors that cannot be predicted with certainty. Estimated yields do not reflect any of the costs of operation of ARMOUR.

THE INFORMATION PRESENTED HEREIN IS UNAUDITED AND UNREVIEWED.



ARMOUR Monthly Metrics

Report Date ⁽¹⁾	7/20/16	8/16/2016	9/22/2016				
Common Stock Price	\$20.47	\$22.35	\$22.04				
Estimated Book Value ⁽²⁾	\$26.23	\$27.17	\$27.50				
Common Shares Outstanding	36,758,291	36,758,291	36,758,291				
Preferred A Shares Outstanding	2,180,572	2,180,572	2,180,572				
Preferred B Shares Outstanding	5,650,000	5,650,000	5,650,000	Quarter	Asset Yield	Cost of Funds	Net Interest Margin
Asset Balance Sheet Duration	3.15	3.08	3.08	Q1 2014	3.20	1.37	1.82
Hedge Balance Sheet Duration	-2.41	-2.32	-2.30	Q2 2014	2.85	1.40	1.46
Net Balance Sheet Duration	0.75	0.76	0.79	Q3 2014	2.68	1.25	1.43
Leverage ⁽³⁾	6.9	6.5	6.3	Q4 2014	2.71	1.44	1.27
Rates DV01	781,000	817,000	828,000	Q1 2015	2.72	1.52	1.20
Spread DV01	5,008,000	5,124,000	5,067,000	Q2 2015	2.61	1.24	1.36
FNCL 3.5 Price	105.3	105.36	105.20	Q3 2015	2.56	1.12	1.44
FNCI 3.0 Price	104.67	104.98	104.69	Q4 2015	2.70	1.13	1.58
10 Yr Treasury Yield	1.58%	1.51%	1.69%	Q1 2016	2.73	1.36	1.37
5 Year OIS Swap Rate	0.76%	0.73%	0.85%	Q2 2016	2.68	1.33	1.35
10 Year OIS Swap Rate	1.06%	1.00%	1.14%				

(1) Some of the data may be based on information preceding the date of the report (i.e., closing prices).

(2) A portion of the dividend payable has been subtracted from the *estimated* book value based on accrual throughout the month.

(3) Leverage does not include TBA dollar rolls or forward settling transactions. Leverage is based on current equity.

ARMOUR Capitalization, Dividend Policy, Transparency and Manager

Capitalization

- 36,758,291 shares of common stock outstanding (NYSE: “ARR”).⁽¹⁾
- 2,180,572 shares of Series A Preferred Stock outstanding (NYSE: “ARR PrA”).
- 5,650,000 shares of Series B Preferred Stock outstanding (NYSE: “ARR PrB”).
- Total Capitalization of \$1,206.6 million composed of:
 - Estimated book value of common stock of \$1,010.9 million.
 - Preferred stock par value of \$195.8 million.

Common Stock Dividend Policy

- ARMOUR pays common stock dividends monthly.
- Dividends are typically announced on a monthly basis.

Transparency and Governance

- Portfolio and liability details are updated monthly at www.armourreit.com.
- Premium amortization is expensed monthly as it occurs. No yield smoothing.⁽²⁾
- Hedge positions are marked-to-market daily (GAAP/Tax differences).
- Non-Executive Board Chairman and separate Lead Independent Director.

ARMOUR REIT Manager

- ARMOUR REIT is externally managed by ARMOUR Capital Management LP.

(1) Share count data is as of September 20, 2016 close (including dilutive common stock equivalents).

(2) Due to the prepayment lockout feature of our Agency multifamily securities, premium is amortized using a level yield methodology

ARMOUR Balance Sheet Metrics

Assets

ARMOUR invests in mortgage securities. Current allocation of equity in repo is:

- 59.2% in Agency securities.
- 40.8% in Non-Agency securities.

Duration

0.79 net balance sheet duration.

- 3.08 gross asset duration.
- (2.30) hedge duration.

Hedging

\$5.4 billion in hedges (interest rate swaps).

- 57.1% of Agency fixed rate assets hedged.
- 81.4% of Agency fixed rate asset repurchase agreements hedged.

Liquidity

\$624.9 million in total liquidity.

- \$331.6 million in true cash.
- \$188.1 million in unlevered securities.
- \$105.2 million in short term Agency P&I.

Leverage

6.3x estimated shareholder's equity.

- \$7.6 billion in net REPO borrowings.

ARMOUR Portfolio Strategy and Investment Methodology

Management has a focused and disciplined approach to evaluating assets for inclusion in the ARMOUR portfolio. ARMOUR employs a strong bias toward a 'buy and hold' strategy rather than a 'trading' strategy. ARMOUR will strategically sell assets when it believes market conditions warrant.

Non-Agency Structure Analysis

- Seniority, subordination model.
- Model completeness and accuracy.
- Litigation and policy risks.

Agency & Non-Agency Class Analysis

- Prepayment history.
- Prepayment expectations.
- Premium/discount.
- Liquidity.

Agency & Non-Agency Loan Analysis

- Original and current loan balance.
- Year of origination.
- Originating company, third-party originators.
- Loan seasoning.
- Principal amortization schedule.
- Original loan-to-value ratio.
- Geography.
- 69.6% of our 15yr MBS are between 85k - 175k loan balances.

Agency Pool Analysis

- Prepayment history and expectations.
- Premium over par.
- Hedgability.
- Liquidity.
- Diversify broadly to limit idiosyncratic pool risk.

ARMOUR Agency & Non-Agency Portfolio

Total Agency Securities	% of Portfolio	Current Value (millions)	Weighted Average Purchase Price	Weighted Average Current Market Price	Weighted Average Net/Gross Coupon	Estimated Effective Duration Using Current Values
ARMs & Hybrids	0.8%	\$ 88.0	104.6%	104.0%	2.55/3.13	0.97
Agency Multifamily Ballooning in 120 Months or Less	14.5%	\$ 1,550.9	102.3%	107.6%	3.19/4.33	6.58
Fixed Rates Maturing Between 0 and 120 Months	1.4%	\$ 149.1	104.7%	105.8%	3.94/4.32	2.34
Fixed Rates Maturing Between 121 and 180 Months	29.5%	\$ 3,148.7	105.0%	106.6%	3.49/3.98	2.99
Fixed Rates Maturing Between 181 and 240 Months	7.6%	\$ 814.6	106.9%	107.6%	3.85/4.32	2.40
Fixed Rates Maturing Between 241 and 300 Months	1.3%	\$ 136.1	107.1%	107.3%	3.88/4.52	2.48
Fixed Rates Maturing Between 301 and 360 Months	10.7%	\$ 1,139.0	106.0%	107.7%	3.87/4.35	3.45
Interest-Only	0.9%	\$ 100.1	19.3%	19.9%	5.11/5.62	-8.70
Total or Weighted Average	66.8%	\$ 7,126.4	103.6%	105.9%	3.55/4.18	3.56

Total TBA Securities	% of Portfolio	Current Value (millions)	Weighted Average Purchase Price	Weighted Average Current Market Price	Weighted Average Net/Gross Coupon	Estimated Effective Duration Using Current Values
15Y 2.5% TBA	6.8%	\$ 722.4	103.2%	103.2%	N/A	2.93
30Y 3.0% TBA	16.9%	\$ 1,808.2	103.4%	103.3%	N/A	3.47
Total or Weighted Average	23.7%	\$ 2,530.7	103.4%	103.3%	N/A	3.31

Total Non-Agency Securities	% of Portfolio	Current Value (millions)	Weighted Average Purchase Price	Weighted Average Current Market Price	Weighted Average Net/Gross Coupon	Estimated Effective Duration Using Current Values
Legacy Non-Agency Assets	1.0%	\$ 103.6	77.8%	81.5%	5.34/4.78	0.16
New Issue Prime Fixed	0.1%	\$ 11.5	94.9%	100.4%	3.66/3.95	5.30
Credit Risk Transfer	7.1%	\$ 753.7	98.2%	105.1%	5.08/4.21	(2.50)
NPL/RPLs	1.3%	\$ 142.2	99.3%	100.5%	3.80/4.20	1.25
Total or Weighted Average	9.5%	\$ 1,010.9	96.2%	102.0%	4.91/4.26	(1.61)

Total or Weighted Average Portfolio	100.0%	\$ 10,668	99.5%	101.5%	3.76/4.21	3.08
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Information as of September 20, 2016. Portfolio value is based on independent third-party pricing. Information includes estimates of the effect of forward settling trades. Some totals may not foot due to rounding.

ARMOUR Balance Sheet Hedge Metrics

Total	Duration Contribution to Balance Sheet ⁽¹⁾
Agency Assets	3.76
Non-Agency Assets	-0.68
Interest Rate Swaps	-2.30
Net Balance Sheet	0.79

Repo	Amount (millions)	Total Hedge %
Agency Fixed Rate Assets ²	\$9,480.5	57.1%
Agency Fixed Rate Asset Repo Balance ²	\$6,646.2	81.4%

(1) The duration contribution to the balance sheet is based on effective duration and market value. Information and pricing as of September 20, 2016. Some totals may not foot due to rounding.

(2) Includes \$11.5 million of New Issue Prime Fixed and excludes Agency Interest-Only Securities. ARR's Repo Balance is significantly smaller than its fixed rate assets due to its TBA positions. Includes effects of forward settling trades.

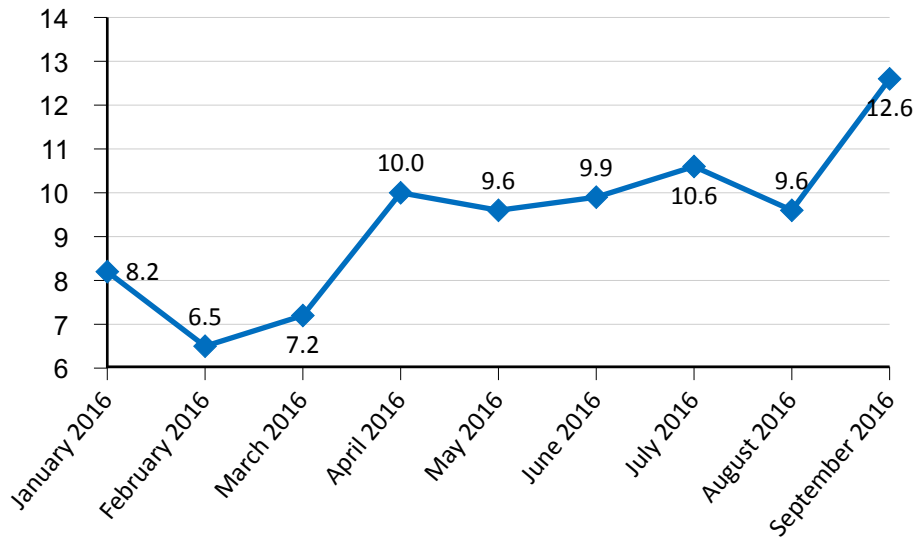
ARMOUR Hedge Portfolio

Current Pay	Remaining Term	Weighted Average Remaining Term (Months)	Notional Amount (millions)	Weighted Average Rate
Interest Rate Swap	0-12 Months	10	\$ 350.0	0.63
Interest Rate Swap	13-24 Months	17	\$ 400.0	0.93
Interest Rate Swap	25-36 Months	0	\$ —	0.00
Interest Rate Swap	37-48 Months	38	\$ 2,410.0	1.48
Interest Rate Swap	49-60 Months	0	\$ —	0.00
Interest Rate Swap	61-72 Months	64	\$ 275.0	2.04
Interest Rate Swap	73-84 Months	77	\$ 1,425.0	2.10
Interest Rate Swap	85-96 Months	0	\$ —	0.00
Interest Rate Swap	97-108 Months	0	\$ —	0.00
Interest Rate Swap	109-120 Months	114	\$ 550.0	2.24
Total or Weighted Average		54	\$ 5,410.0	1.65

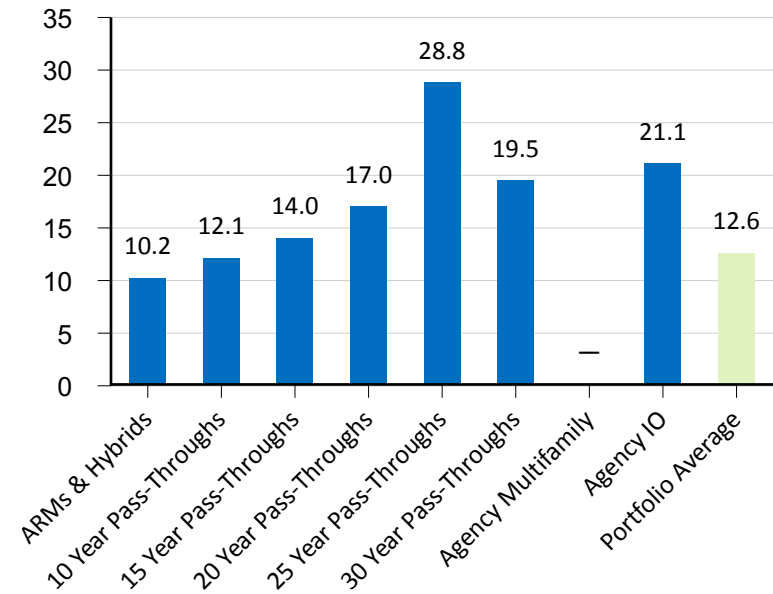
Information as of September 20, 2016. Some totals may not foot due to rounding.

ARMOUR Portfolio Constant Prepayment Rates ("CPR")

Monthly Portfolio Constant Prepayment Rate



September 2016 Agency Asset CPR



ARMOUR expenses premium amortization monthly as it occurs.

Constant Prepayment Rate ("CPR") is the annualized equivalent of single monthly mortality ("SMM"). CPR attempts to predict the percentage of principal that will prepay over the next twelve months based on historical principal pay downs.

CPR is reported on the 4th business day of the month for the previous month's prepayment activity.

ARMOUR REPO Composition

REPO Counter-Party(1)	Principal Borrowed (millions)	Percentage of REPO Positions with ARMOUR	Weighted Average Original Term in Days	Weighted Average Remaining Term in Days	Longest Remaining Term in Days
1 Mitsubishi UFJ Securities (USA), Inc.	\$ 657.4	8.6%	63	21	31
2 ICBC Financial Services LLC	\$ 648.6	8.5%	41	19	28
3 E D & F Man Capital Markets Inc.	\$ 496.9	6.5%	55	22	35
4 Wells Fargo Securities	\$ 460.9	6.0%	30	26	29
5 The Bank of New York Mellon	\$ 450.0	5.9%	229	20	42
6 The Bank of Nova Scotia	\$ 446.7	5.9%	53	20	27
7 ABN AMRO Bank N.V.	\$ 414.7	5.4%	61	32	38
8 ING Financial Markets LLC	\$ 376.5	4.9%	30	16	17
9 Daiwa Securities America Inc.	\$ 374.5	4.9%	61	22	48
10 Citibank, N.A.	\$ 373.6	4.9%	312	52	70
11 FHLB - Cincinnati	\$ 259.0	3.4%	1	1	1
12 BNP Paribas Securities Corp.	\$ 253.9	3.3%	44	21	22
13 Citigroup Global Markets Inc.	\$ 241.4	3.2%	71	39	41
14 KGS-Alpha Capital Markets, L.P.	\$ 219.8	2.9%	35	26	28
15 Natixis Financial Products LLC	\$ 208.3	2.7%	30	19	27
16 Mizuho Securities USA Inc.	\$ 205.4	2.7%	55	31	34
17 RBC Capital Markets	\$ 200.5	2.6%	30	18	22
18 Morgan Stanley & Co. LLC	\$ 177.6	2.3%	78	32	64
19 Guggenheim Securities, LLC	\$ 160.6	2.1%	59	27	29
20 J.P. Morgan Securities LLC	\$ 144.7	1.9%	59	53	57
21 South Street Securities LLC	\$ 140.8	1.8%	63	41	41
22 Wells Fargo Bank, N.A.	\$ 132.8	1.7%	30	10	29
23 Nomura Securities International, Inc.	\$ 129.5	1.7%	74	27	31
24 Merrill Lynch, Pierce, Fenner & Smith	\$ 128.5	1.7%	31	14	21
25 Societe Generale	\$ 116.9	1.5%	61	36	36
26 Royal Bank of Canada	\$ 92.2	1.2%	92	53	90
27 Federal Home Loan Bank of Des	\$ 50.0	0.7%	366	75	75
28 Deutsche Bank Securities Inc.	\$ 36.1	0.5%	91	21	21
29 UBS Securities LLC	\$ 30.0	0.4%	1,098	216	216
Total or Weighted Average	\$ 7,627.5	100%	79	26	

After the effects of forward settling trades, the repo balance is expected to be approximately \$7.4B.

Weighted Average Repo Rate	0.86%
Weighted Average Haircut	7.12%

Debt to Shareholders' Equity Ratio	6.3
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(1) ARMOUR has 41 lending counterparties.

Information as of September 20, 2016.
Some totals may not foot due to rounding.



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