### ... MassMutual Ascend

## **Index Protector 4**

### OVERVIEW

### ISSUE AGES

0-90 (qualified); 0-90 (non-qualified); 0-75 (inherited IRA); 0-75 (inherited non-qualified)

Issue age is the owner's age at last birthday. For joint owners, the oldest age will be used as the issue age. If the owner is a non-natural person, the age of the eldest annuitant will be treated as the age of the owner for all purposes under this contract.

In Texas, contracts can only be issued up to age 86.

# PURCHASE PAYMENTS

This product accepts a single purchase payment for non-qualified, traditional 403(b), Roth 403(b), traditional IRA, Roth IRA, SEP IRA, SIMPLE IRA, Inherited IRA, Inherited non-qualified, 401(a) and 457 plan funds. Additional purchase payments allowed during the first two months of the contract only. Terms begin only on the  $6^{\rm th}$  and  $20^{\rm th}$  of each month. Purchase payments received prior to the beginning of a term will be held in the purchase payment account until the beginning of the next term. Additional purchase payments have their own interest crediting terms.

**Minimum:** Initial purchase payment: \$50,000; additional purchase payments: \$25.000

**Maximum:** \$2 million for ages 0-75; \$1.5 million for ages 76-80; \$1 million for ages 81+

Maximums apply to the total purchase payments made to all annuities from MassMutual Ascend with the same owners or the same annuitants.

# EXTENDED CARE WAIVER RIDER

To help ease the strain of certain unforeseen events, an extended care waiver is available for no additional charge. If the owner is confined to a nursing home or other long-term care facility after the completion of the first contract year for at least 90 consecutive days, early withdrawal charges may be waived on withdrawals up to a full surrender.

Not available in Massachusetts. In California, the Extended Care Waiver Rider has been replaced with the Waiver of Early Withdrawal Charges for Facility Care or Home Care or Community-Based Services Rider, which provides for a waiver of early withdrawal charges under an expanded variety of circumstances.

# TERMINAL ILLNESS WAIVER RIDER

Provided that the diagnosis is rendered more than one year after the contract effective date, up to 100% of the account value can be withdrawn without incurring an early withdrawal charge if the owner or joint owner is diagnosed by a physician as having a terminal illness with a prognosis of 12 months or less.

This waiver may be used only once. Not available in Massachusetts.

#### INTEREST STRATEGIES

Upon issue, the owner selects from two types of interest strategies: a declared rate strategy and indexed strategies. At the end of each term, the owner has the opportunity to transfer funds among the available interest strategies. To transfer funds, the owner must submit a strategy selection form prior to the end of that term. Unless the owner transfers funds at the end of a term, funds are automatically applied to the same strategy for the next term. Available strategies are subject to change at any time for new sales.

#### **INTEREST RATES**

**Purchase payment account interest rate:** Interest is credited daily on amounts held in this account based on an applicable interest rate. This interest rate is guaranteed to be at least equal to the guaranteed minimum interest rate set out in the contract.

**Declared interest rate:** Interest is credited daily on amounts held under a declared rate strategy based on the applicable declared interest rate. The current declared interest rate will not change during the strategy's term and is guaranteed to never be below the guaranteed minimum interest rate set out in the contract.

Indexed interest rate: An indexed interest rate is determined, in part, by the performance of the S&P  $500^{\$}$ , S&P 500 Risk Control 10% Index (SPXAV10P), S&P U.S. Retiree Spending Index (SPRETIRE), iShares U.S. Real Estate ETF (IYR) or the iShares MSCI EAFE ETF (EFA). Indexed interest is credited only on the last day of each term. Indexed strategies include:

- S&P 500<sup>®</sup> annual point-to-point with cap
- S&P 500 Risk Control annual point-to-point with participation rate
- S&P U.S. Retiree Spending annual point-to-point with participation rate
- iShares U.S. Real Estate annual point-to-point with cap
- iShares MSCI EAFE annual point-to-point with cap

**Point-to-point indexed strategy:** The indexed interest rate for a term is determined by comparing the index value on the last day of that term to the value on the first day of that term. The indexed interest rate for that term equals the index change, up to the cap or multiplied by the participation rate. The indexed interest rate will never be less than 0%.

Available strategies may vary by state and by distribution.

ACCOUNT VALUE	The account value equals the sum	of the fo	llowing	values:			
	Purchase payment account value the purchase payments received, less withdrawals and applicable ea and less any applicable premium t	less amo arly with	unts ap drawal	plied to charges	an inte , plus in	rest strate	gy,
	Declared rate strategy value: A dapplied to the declared rate strate applicable early withdrawal charges the declared interest rate.	egy, less a	any amo	unts wi	ithdraw	n, includin	g any
	Interest strategy value: An interest of that strategy, less withdrawals indexed interest credited.						
SURRENDER VALUE	The surrender value equals the greatest of the account value less any early withdrawal charges or the guaranteed minimum surrender value.						
GUARANTEED MINIMUM SURRENDER VALUE (GMSV)	The GMSV equals 87.5% of purchase payments, plus interest credited daily at a guaranteed minimum rate less prior withdrawals, net of applicable early withdrawal charges. The GMSV will not be less than the minimum values required by each state.						
	In Alaska and New Jersey, the GM interest credited daily at a minimu of applicable early withdrawal cha	ım guara					
FFFC	There are no up-front sales charges or fees.						
FEES	There are no up-front sales charge	es or tee	٠.				
EARLY WITHDRAWAL	An early withdrawal charge is app first four contract years.			rs and v	vithdra	wals for th	е
EARLY	An early withdrawal charge is app			rs and v	vithdrav 4	wals for th	е
EARLY WITHDRAWAL	An early withdrawal charge is app first four contract years.	lied to su	ırrende				е
EARLY WITHDRAWAL	An early withdrawal charge is app first four contract years.  CONTRACT YEAR	1 5.6% 6 of the page. After contracting the solution of the so	2 5.6% ourchase the firse annive um of al to deter	3 5.6% e paymet contra rsary m I previo	4 5.6% ents manct year, ay be wous with	5+ 0% y be withd 10% of th ithdrawn drawals du	Irawn e uring le.

Minimum withdrawal: \$500;

Minimum account value following withdrawal: \$5,000

ADVISORY FEE WITHDRAWALS	Amounts applied to pay advisory fees of up to 1.5% per year are not subject to an early withdrawal charge and do not reduce the free withdrawal allowance.  This favorable treatment of advisory fees is provided under endorsement E6061519NW. For states that haven't approved the endorsement, the favorable treatment is non-contractual.
EASY SYSTEMATIC PAYMENT (ESP) PROGRAM (NON-CONTRACTUAL)	The fixed dollar and RMD options are available. Refer to the Terms and Conditions section of the applicable ESP program election agreement form for eligibility requirements. ESP payments reduce the amount available under the free withdrawal allowance. Indexed interest is credited only at the end of a term. Amounts withdrawn under the ESP program before the end of a term will not earn any indexed interest.
PAYOUT OPTIONS	The following options are available following the first contract year: fixed period income, life income or life income with payments for at least a fixed period, and joint and one-half survivor income.
DEATH BENEFIT	The greatest of the account value or GMSV will be paid upon the death of the owner. A spouse who is the surviving joint owner or sole surviving beneficiary may become the successor owner.
STATE VARIATIONS	New Jersey: The GMSV equals 90% of purchase payments, plus interest credited daily at a minimum guaranteed rate, less withdrawals and net of applicable early withdrawal charges.  Texas: Contracts can only be issued up to age 86.

The S&P 500 Risk Control 10% Index refers to the S&P 500 Average Daily Risk Control 10% Price Return Index. For more information, visit US.SPIndices.com and search keyword SPXAV10P.

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