



The option classes listed below will begin trading on the MIAX Emerald Options Exchange at the start of trading on **Monday, August 2, 2021**. All option classes on MIAX Emerald have an allocation style of Pro-Rata and billing style of Maker-Taker.

Security Symbol	Security Name	Option Class	Penny Pilot	Exchange for Opening	Closing Time	PLMM	Cloud
ACVA	ACV AUCTIONS INC	ACVA	No	NASDAQ	4:00	Citadel Securities, LLC	1
AEMD	AETHLON MEDICAL, INC.	AEMD	No	NASDAQ	4:00	Susquehanna Securities	1
AMR	Alpha Metallurgical Resources, Inc.	AMR	No	NYSE	4:00	Wolverine Trading, LLC	1
AMSWA	American Software Inc.	AMSWA	No	NASDAQ	4:00	Citadel Securities, LLC	1
ARAV	Aravive, Inc.	ARAV	No	NASDAQ	4:00	Citadel Securities, LLC	1
ARC	ARC Document Solutions, Inc.	ARC	No	NYSE	4:00	Citadel Securities, LLC	1
ATHA	ATHIRA PHARMA, INC.	ATHA	No	NASDAQ	4:00	Susquehanna Securities	1
AVNW	AVIAT NETWORKS INC	AVNW	No	NASDAQ	4:00	Susquehanna Securities	1
AXLA	AXCELLA HEALTH, INC.	AXLA	No	NASDAQ	4:00	Susquehanna Securities	1
BLRX	BIOLINE RXLTD	BLRX	No	NASDAQ	4:00	Citadel Securities, LLC	2
BNL	Broadstone Net Lease, Inc.	BNL	No	NYSE	4:00	Wolverine Trading, LLC	2
BUG	GLOBAL X CYBER SECURITY	BUG	No	NASDAQ	4:00	Susquehanna Securities	2
BYSI	BEYONDSRING INC.	BYSI	No	NASDAQ	4:00	Citadel Securities, LLC	2
CBLI	CLEVELAND BIOLABS, INC.	CBLI	No	NASDAQ	4:00	Susquehanna Securities	2
CCCC	C4 THERAPEUTICS, INC.	CCCC	No	NASDAQ	4:00	Citadel Securities, LLC	2
CERE	CEREVEL THERAPEUTICS HOLDINGS, INC	CERE	No	NASDAQ	4:00	Wolverine Trading, LLC	2
CKPT	CHECKPOINT THERAPEUTICS, INC.	CKPT	No	NASDAQ	4:00	Citadel Securities, LLC	2
CLPT	CLEARPOINT NEURO INC	CLPT	No	NASDAQ	4:00	Susquehanna Securities	2
CRC	CALIFORNIA RESOURCES CORP	CRC	No	NYSE	4:00	Susquehanna Securities	2
CTRM	CASTOR MARITIME, INC.	CTRM	No	NASDAQ	4:00	Susquehanna Securities	2
CTXR	CITIUS PHARMACEUTICALS INC	CTXR	No	NASDAQ	4:00	Susquehanna Securities	2

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CWEB	Direxion Daily CSI China Internet Index Bull 2x Shares	CWEB	No	NYSE Arca	4:00	Wolverine Trading, LLC	2
DEA	Easterly Government Properties, Inc.	DEA	No	NYSE	4:00	Wolverine Trading, LLC	3
DEN	DENBURY INC.	DEN	No	NYSE	4:00	Morgan Stanley	3
DLO	DLOCAL, LTD	DLO	No	NASDAQ	4:00	Susquehanna Securities	3
DNUT	KRISPY KREME, INC	DNUT	No	NASDAQ	4:00	Susquehanna Securities	3
DOMA	Doma Holdings, Inc.	DOMA	No	NYSE	4:00	Wolverine Trading, LLC	3
DPST	DIREXION DAILY REGIONAL BANKS BULL 3X SHARES	DPST	No	NYSE Arca	4:00	Wolverine Trading, LLC	3
DRIO	DARIOHEALTH CORP	DRIO	No	NASDAQ	4:00	Citadel Securities, LLC	3
DV	DOUBLEVERIFY HOLDINGS INC	DV	No	NYSE	4:00	Citadel Securities, LLC	3
EGLX	ENTHUSIAST GAMING HOLDINGS INC	EGLX	No	NASDAQ	4:00	Susquehanna Securities	3
ENTX	ENTERA BIO LTD.	ENTX	No	NASDAQ	4:00	Susquehanna Securities	3
EVLO	EVELO BIOSCIENCES, INC.	EVLO	No	NASDAQ	4:00	Susquehanna Securities	3
FBRX	FORTE BIOSCIENCES INC.	FBRX	No	NASDAQ	4:00	Citadel Securities, LLC	3
FRHC	FREEDOM HOLDING CORP.	FRHC	No	NASDAQ	4:00	Wolverine Trading, LLC	3
FUL	FULLER (H.B.) CO	FUL	No	NYSE	4:00	Susquehanna Securities	3
FWRD	Forward Air Corporation	FWRD	No	NASDAQ	4:00	Wolverine Trading, LLC	3
FYBR	FRONTIER COMMUNICATIONS PARENT, INC	FYBR	No	NASDAQ	4:00	Susquehanna Securities	3
GDYN	GRID DYNAMICS HOLDINGS, INC.	GDYN	No	NASDAQ	4:00	Wolverine Trading, LLC	4
GLBS	GLOBUS MARITIME LIMITED	GLBS	No	NASDAQ	4:00	Wolverine Trading, LLC	4
GNPK	Genesis Park Acquisition Corp.	GNPK	No	NYSE	4:00	Susquehanna Securities	4
GOED	1847 GOEDEKER INC	GOED	No	AMEX	4:00	Citadel Securities, LLC	4
GRAY	GRAYBUG VISION INC	GRAY	No	NASDAQ	4:00	Citadel Securities, LLC	4
GROY	GOLD ROYALTY CORP.	GROY	No	AMEX	4:00	Susquehanna Securities	4

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GSAH	GS Acquisition Holdings Corp II	GSAH	Yes	NYSE	4:00	Wolverine Trading, LLC	4
GTX	Garrett Motion Inc.	GTX	No	NASDAQ	4:00	Susquehanna Securities	4
GWAC	Vintage Wine Estates, Inc.	GWAC	No	NASDAQ	4:00	Wolverine Trading, LLC	4
HCI	HCI Group, Inc.	HCI	No	NYSE	4:00	Citadel Securities, LLC	4
HDV	iShares Core High Dividend ETF	HDV	No	NYSE Arca	4:00	Citadel Securities, LLC	4
HITI	HIGH TIDE, INC.	HITI	No	NASDAQ	4:00	Citadel Securities, LLC	4
HUT	HUT 8 MINING CORP	HUT	No	NASDAQ	4:00	Morgan Stanley	4
ICF	iShares Cohen & Steers REIT ETF	ICF	No	BATS	4:00	Citadel Securities, LLC	5
IIIN	INSTEEL INDUSTRIES INC	IIIN	No	NYSE	4:00	Wolverine Trading, LLC	5
INMB	IMMUNE BIO INC	INMB	No	NASDAQ	4:00	Susquehanna Securities	5
INSE	INSPIRED ENTERTAINMENT, INC.	INSE	No	NASDAQ	4:00	Susquehanna Securities	5
JFIN	JIAYIN GROUP INC.	JFIN	No	NASDAQ	4:00	Wolverine Trading, LLC	5
KMDA	KAMADA LTD	KMDA	No	NASDAQ	4:00	Citadel Securities, LLC	5
LDL	Lydall, Inc	LDL	No	NYSE	4:00	Susquehanna Securities	5
LEAP	RIBBIT LEAP LIMITED	LEAP	No	NYSE	4:00	Citadel Securities, LLC	5
LMAT	LeMaitre Vascular Inc.	LMAT	No	NASDAQ	4:00	Wolverine Trading, LLC	5
LMNL	LIMINAL BIOSCIENCES INC.	LMNL	No	NASDAQ	4:00	Citadel Securities, LLC	5
LUNG	PULMONX CORP	LUNG	No	NASDAQ	4:00	Wolverine Trading, LLC	5
MIXT	MIX TELEMATICS LTD	MIXT	No	NYSE	4:00	Citadel Securities, LLC	6
MMAT	Meta Materials Inc.	MMAT	No	NASDAQ	4:00	Citadel Securities, LLC	6
MRIN	MARIN SOFTWARE INCORPORATED	MRIN	No	NASDAQ	4:00	Wolverine Trading, LLC	6
MRTN	Marten Transport, Ltd.	MRTN	No	NASDAQ	4:00	Citadel Securities, LLC	6
MYPS	PLAYSTUDIOS, Inc.	MYPS	No	NASDAQ	4:00	Wolverine Trading, LLC	6
NEBC	NEBULA CARAVEL ACQUISITION CORP.	NEBC	No	NASDAQ	4:00	Citadel Securities, LLC	6

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NOVN	NOVAN, INC.	NOVN	No	NASDAQ	4:00	Susquehanna Securities	6
NRBO	NEUROBO PHARMACEUTICALS INC	NRBO	No	NASDAQ	4:00	Citadel Securities, LLC	6
OCFT	ONECONNECT FINANCIAL TECHNOLOGY CO LTD	OCFT	No	NYSE	4:00	Wolverine Trading, LLC	7
OCUP	OCUPHIRE PHARMA, INC.	OCUP	No	NASDAQ	4:00	Susquehanna Securities	7
OGN	Organon & Co.	OGN	No	NYSE	4:00	Citadel Securities, LLC	7
OLO	OLO, INC.	OLO	No	NYSE	4:00	Susquehanna Securities	7
OMAB	GRUPO AEROPORTUARIO DEL CENTRO NORTE SAB DE CV	OMAB	No	NASDAQ	4:00	Citadel Securities, LLC	7
OPFI	OppFi Inc.	OPFI	No	NYSE	4:00	Susquehanna Securities	7
ORLA	ORLA MINING LTD	ORLA	No	AMEX	4:00	Citadel Securities, LLC	7
OWLT	Owlet, Inc.	OWLT	No	NYSE	4:00	Citadel Securities, LLC	7
PASG	Passage Bio, Inc.	PASG	No	NASDAQ	4:00	Citadel Securities, LLC	7
PEJ	INVESCO DYNAMICLEISURE & ENTERTAINMENT ETF	PEJ	No	NYSE Arca	4:00	Citadel Securities, LLC	7
PRPH	PROPHASE LABS, INC	PRPH	No	NASDAQ	4:00	Citadel Securities, LLC	7
PRPO	PRECIPIO INC	PRPO	No	NASDAQ	4:00	Citadel Securities, LLC	7
PUBM	PUBMATIC INC	PUBM	No	NASDAQ	4:00	Morgan Stanley	7
PWP	Perella Weinberg Partners	PWP	No	NASDAQ	4:00	Susquehanna Securities	7
QRHC	QUEST RESOURCE HOLDING CORPORATION	QRHC	No	NASDAQ	4:00	Citadel Securities, LLC	7
QTS	QTS Realty Trust Inc.	QTS	No	NYSE	4:00	Susquehanna Securities	7
QUMU	QUMU CORPORATION	QUMU	No	NASDAQ	4:00	Susquehanna Securities	7
RAVN	Raven Industries, Inc.	RAVN	No	NASDAQ	4:00	Citadel Securities, LLC	7
RCEL	Avita Therapeutics, Inc.	RCEL	No	NASDAQ	4:00	Susquehanna Securities	7
RCON	RECON TECHNOLOGY LTD.	RCON	No	NASDAQ	4:00	Susquehanna Securities	7
REE	REE Automotive Ltd.	REE	No	NASDAQ	4:00	Wolverine Trading, LLC	7

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RFL	RAFAEL HOLDINGS, INC.	RFL	No	NYSE	4:00	Susquehanna Securities	7
RICE	RICE ACQUISITION CORP	RICE	No	NYSE	4:00	Susquehanna Securities	7
SAIL	SOFTWARE ACQUISITION GROUP, INC. II	SAIL	No	NASDAQ	4:00	Wolverine Trading, LLC	8
SGFY	SIGNIFY HEALTH INC	SGFY	No	NYSE	4:00	Susquehanna Securities	8
SHEN	SHENANDOAH TELECOMMUNICATIONS CO	SHEN	No	NASDAQ	4:00	Citadel Securities, LLC	8
SJR	Shaw Communications, Inc.	SJR	No	NYSE	4:00	Wolverine Trading, LLC	8
SNP	CHINA PETROLEUM AND CHEMICAL CORP	SNP	No	NYSE	4:00	Susquehanna Securities	8
SRNG	SOARING EAGLE ACQUISITION CORP	SRNG	No	NASDAQ	4:00	Wolverine Trading, LLC	8
SYKE	SYKES ENTERPRISES	SYKE	No	NASDAQ	4:00	Citadel Securities, LLC	8
TALK	Talkspace, Inc.	TALK	No	NASDAQ	4:00	Susquehanna Securities	8
TBLA	Taboola.com, Ltd.	TBLA	No	NASDAQ	4:00	Citadel Securities, LLC	8
TPVG	Triplepoint Venture Growth B	TPVG	No	NYSE	4:00	Wolverine Trading, LLC	8
TREB	TREBIA ACQUISITION CORP.	TREB	No	NYSE	4:00	Wolverine Trading, LLC	8
TUEM	TUESDAY MORNING CORPORATION	TUEM	No	NASDAQ	4:00	Wolverine Trading, LLC	8
ULCC	Frontier Group Holdings, Inc.	ULCC	No	NASDAQ	4:00	Susquehanna Securities	9
UP	Wheels Up Experience Inc.	UP	No	NYSE	4:00	Citadel Securities, LLC	9
USCR	U.S. Concrete Inc.	USCR	No	NASDAQ	4:00	Citadel Securities, LLC	9
VACQ	VECTOR ACQUISITION CORPORATION	VACQ	No	NASDAQ	4:00	Citadel Securities, LLC	9
VMEO	Vimeo, Inc.	VMEO	No	NASDAQ	4:00	Wolverine Trading, LLC	9
VOLT	Volt Information Sciences, Inc.	VOLT	No	AMEX	4:00	Citadel Securities, LLC	9
VVOS	VIVOS THERAPEUTICS, INC.	VVOS	No	NASDAQ	4:00	Susquehanna Securities	9
WFRD	WEATHERFORD INTERNATIONAL PLC	WFRD	No	NASDAQ	4:00	Citadel Securities, LLC	10
WKEY	WISEKEY INTERNATIONAL HOLDING LTD.	WKEY	No	NASDAQ	4:00	Susquehanna Securities	10
WLTW	Willis Towers Watson Public Limited Company	WLTW	No	NASDAQ	4:00	Susquehanna Securities	10
ZIP	ZIPRECRUITER, INC	ZIP	No	NYSE	4:00	Wolverine Trading, LLC	11

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