Application	PLAXIS 2D, PLAXIS 3D
Version	PLAXIS 2D CONNECT Edition V22 PLAXIS 3D CONNECT Edition V22 PLAXIS 2D 2023.1 and later PLAXIS 3D 2023.1 and later
Date created	May 25, 2022
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This page gives an overview of Material property changes between PLAXIS CONNECT Edition V21.01, PLAXIS 2023.2, PLAXIS 2024.3 and PLAXIS 2025.1.

For all the changes between versions check the full overview in the PDF attached in Downloads section.

The Material object data structure has been updated to be more flexible for future developments.
Also, the naming convention has been made more consistent: any property name now follows CamelCase formatting, except where the first "word" and its casing represents a geotechnical meaning. Examples:

- Soil model will be written as `.SoilModel`
- initial void ratio e_{init} will be written as `.eInit`
- Mohr-Coulomb's stiffness E^{ref} will be written as `.ERef`
- Hardening Soil's oedometer stiffness E_{oed}^{ref} will be written as `.EOedRef`
- Hardening Soil's stress dependency *power m* will be written as `.PowerM`

This page will highlight in green the changes to the most used parameters. For a full list of current .Property names, please check the Objects reference (available via the PLAXIS Help menu) or use the `echo` command targeting the material object.

Latest changes

With the release of PLAXIS 2025.1 the following items have changes:

- Soil - Mechanical

Last update: Oct 13, 2025

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Soil - General

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
.MaterialName	.Identification	.Identification	.Identification	.Identification	.Identification	.Identification	.Identification	
.ninit	.nInit	.nInit	.nInit	.nInit	.nInit	.nInit	.nInit	
.einit	.eInit	.eInit	.eInit	.eInit	.eInit	.eInit	.eInit	

Soil - Mechanical

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
.Kwn	.Kwn	.Kwn	.Kwn	.Kwn	.Kwn	.Kwn	.KwnRatio	Update for consistency

Soil - Groundwater

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
.perm_primary_horizontal_axis	.PermHorizontalPrimary	.PermHorizontalPrimary	.PermHorizontalPrimary	.PermHorizontalPrimary	.PermHorizontalPrimary	.PermHorizontalPrimary	.PermHorizontalPrimary	
.perm_vertical_axis	.PermVertical	.PermVertical	.PermVertical	.PermVertical	.PermVertical	.PermVertical	.PermVertical	
.cK	.Ck	.cK	.cK	.cK	.cK	.cK	.cK	

Soil - Interface

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
.InterfaceStrength	.InterfaceStrengthDetermination	.InterfaceStrengthDetermination	.InterfaceStrengthDetermination	.InterfaceStrengthDetermination	.InterfaceStrengthDetermination	.InterfaceStrengthDetermination	.InterfaceStrengthDetermination	This was an implicit setting. It was made explicit in V22.00.
.Rinter	.Rinter	.Rinter	.Rinter	.Rinter	.Rinter	.Rinter	.Rinter	It is required to first set .InterfaceStrengthDetermination to *"Manual"* or *"Manual with residual strength"*
.ConsiderGapClosure	.GapClosure	.GapClosure	.GapClosure	.GapClosure	.GapClosure	.GapClosure	.GapClosure	
.InterfaceStiffness	.InterfaceStiffnessDetermination	.InterfaceStiffnessDetermination	.InterfaceStiffnessDetermination	.InterfaceStiffnessDetermination	.InterfaceStiffnessDetermination	.InterfaceStiffnessDetermination	.InterfaceStiffnessDetermination	Naming of options has been changed in V22.00
.InterfaceKn	.knInter	.knInter	.knInter	.knInter	.knInter	.knInter	.knInter	When Interface stiffness is set to *Direct*
.InterfaceKs	.ksInter	.ksInter	.ksInter	.ksInter	.ksInter	.ksInter	.ksInter	When Interface stiffness is set to *Direct*
.EoedRef	.EoedInter	.EoedInter	.EoedInter	.EoedInter	.EoedInter	.EoedInter	.EoedInter	Used for UDSM and Modified Cam-Clay
.cref	.CInter	.CInter	.CInter	.CInter	.CInter	.CInter	.CInter	Used for UDSM and Modified Cam-Clay
.phi	.PhiInter	.PhiInter	.PhiInter	.PhiInter	.PhiInter	.PhiInter	.PhiInter	Used for UDSM and Modified Cam-Clay
.psi	.PsiInter	.PsiInter	.PsiInter	.PsiInter	.PsiInter	.PsiInter	.PsiInter	Used for UDSM and Modified Cam-Clay

Soil - Initial stresses

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
-	.K0Determination	.K0Determination	.K0Determination	.K0Determination	.K0Determination	.K0Determination	.K0Determination	This was an implicit setting. It was made explicit in V22.00.
.K0Primary	.K0Primary	.K0Primary	.K0Primary	.K0Primary	.K0Primary	.K0Primary	.K0Primary	It is required to first set .K0Determination to *"Manual"*
.K0Secondary	.K0Secondary	.K0Secondary	.K0Secondary	.K0Secondary	.K0Secondary	.K0Secondary	.K0Secondary	It is required to first set .K0Determination to *"Manual"*
.K0PrimaryIsK0Secondary	.K0PrimaryIsK0Secondary	.K0PrimaryIsK0Secondary	.K0PrimaryIsK0Secondary	.K0PrimaryIsK0Secondary	.K0PrimaryIsK0Secondary	.K0PrimaryIsK0Secondary	.K0PrimaryIsK0Secondary	It is required to first set .K0Determination to *"Manual"*

Soil - Mohr-Coulomb

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
.ERef	.Eref	.Eref	.Eref	.Eref	.Eref	.Eref	.Eref	
.Gref	.GRef	.GRef	.GRef	.GRef	.GRef	.GRef	.GRef	
.Eoed	.EOed	.EOed	.EOed	.EOed	.EOed	.EOed	.EOed	
.cref	.cRef	.cRef	.cRef	.cRef	.cRef	.cRef	.cRef	
.Einc	.EInc	.EInc	.EInc	.EInc	.EInc	.EInc	.EInc	

.verticalref	.verticalRef	.verticalRef	.VerticalRef	.VerticalRef	.VerticalRef	.VerticalRef	.VerticalRef	Following the CamelCase formatting
-	.EInc	.EInc	.EInc	.EInc	.EInc	.EInc	.EInc	New since V22.00: in favor of G_{inc}
.Ginc	x	x	x	x	x	x	x	Direct input of E_{inc} in stead of G_{inc}
.cinc	.cInc	.cInc	.cInc	.cInc	.cInc	.cInc	.cInc	

Soil - Hardening Soil/HS Small

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
.Gref	x	x	x	x	x	x	x	Deprecated. Instead use .EURRef
.E50ref	.E50Ref	.E50Ref	.E50Ref	.E50Ref	.E50Ref	.E50Ref	.E50Ref	
.EoedRef	.EOedRef	.EOedRef	.EOedRef	.EOedRef	.EOedRef	.EOedRef	.EOedRef	
.EurRef	.EURRef	.EURRef	.EURRef	.EURRef	.EURRef	.EURRef	.EURRef	
.powerm	.PowerM	.PowerM	.PowerM	.PowerM	.PowerM	.PowerM	.PowerM	
.Pref	.pRef	.pRef	.pRef	.pRef	.pRef	.pRef	.pRef	
.Rf	.RF	.RF	.RF	.RF	.RF	.RF	.RF	
.nu	.nuUR	.nuUR	.nuUR	.nuUR	.nuUR	.nuUR	.nuUR	
.KOnc	.KONC	.KONC	.KONC	.KONC	.KONC	.KONC	.KONC	
.cref	.cRef	.cRef	.cRef	.cRef	.cRef	.cRef	.cRef	
.verticalref	.verticalRef	.verticalRef	.VerticalRef	.VerticalRef	.VerticalRef	.VerticalRef	.VerticalRef	Following the CamelCase formatting
.cinc	.cInc	.cInc	.cInc	.cInc	.cInc	.cInc	.cInc	
.G0ref	.G0Ref	.G0Ref	.G0Ref	.G0Ref	.G0Ref	.G0Ref	.G0Ref	* only for HS small
.Cc	.CC	.CC	.CC	.CC	.CC	.CC	.CC	Alternative parameters for stiffness
.Cs	.CS	.CS	.CS	.CS	.CS	.CS	.CS	Alternative parameters for stiffness

Soil - Soft Soil/Soft Soil Creep

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
.MuModified	.muModified	.muModified	.muModified	.muModified	.muModified	.muModified	.muModified	
.Cc	.CC	.CC	.CC	.CC	.CC	.CC	.CC	Alternative parameters for stiffness
.Cs	.CS	.CS	.CS	.CS	.CS	.CS	.CS	Alternative parameters for stiffness
.Ca	.CAlpha	.CAlpha	.CAlpha	.CAlpha	.CAlpha	.CAlpha	.CAlpha	Alternative parameters for stiffness
.nu	.nuUR	.nuUR	.nuUR	.nuUR	.nuUR	.nuUR	.nuUR	
.cref	.cRef	.cRef	.cRef	.cRef	.cRef	.cRef	.cRef	
.KOnc	.KONC	.KONC	.KONC	.KONC	.KONC	.KONC	.KONC	

Soil - NGI-ADP

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
.UnloadingShearStiffness	.GURsUARatio	.GURsUARatio	.GURsUARatio	.GURsUARatio	.GURsUARatio	.GURsUARatio	.GURsUARatio	
.nu	.nuU	.nuU	.nuU	.nuU	.nuU	.nuU	.nuU	
.ReferenceShearStrength	.sUARef	.sUARef	.sUARef	.sUARef	.sUARef	.sUARef	.sUARef	
.IncreaseOfShearStrengthWithVerticalRef	.sUAInc	.sUAInc	.sUAInc	.sUAInc	.sUAInc	.sUAInc	.sUAInc	
.RelativeTriaxialCompressiveShearStrength	.sUCTxsUARatio	.sUCTxsUARatio	.sUCTxsUARatio	.sUCTxsUARatio	.sUCTxsUARatio	.sUCTxsUARatio	.sUCTxsUARatio	
.RelativePassiveStrength	.sUPsUARatio	.sUPsUARatio	.sUPsUARatio	.sUPsUARatio	.sUPsUARatio	.sUPsUARatio	.sUPsUARatio	
.RelativeDirectShearStrength	.sUDSSsUARatio	.sUDSSsUARatio	.sUDSSsUARatio	.sUDSSsUARatio	.sUDSSsUARatio	.sUDSSsUARatio	.sUDSSsUARatio	
.AxialFailureStrainTriaxialCompression	.gammaFC	.gammaFC	.gammaFC	.gammaFC	.gammaFC	.gammaFC	.gammaFC	
.AxialFailureStrainTriaxialExtension	.gammaFE	.gammaFE	.gammaFE	.gammaFE	.gammaFE	.gammaFE	.gammaFE	
.ShearFailureStrainDirectSimpleShear	.gammaFDSS	.gammaFDSS	.gammaFDSS	.gammaFDSS	.gammaFDSS	.gammaFDSS	.gammaFDSS	
.InitialMobilization	.tauOsUARatio	.tauOsUARatio	.tauOsUARatio	.tauOsUARatio	.tauOsUARatio	.tauOsUARatio	.tauOsUARatio	
.verticalinc	-	.VerticalInclination	.VerticalInclination	.VerticalInclination	.VerticalInclination	.VerticalInclination	.VerticalInclination	

Rock - Hoek-Brown

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
.Eref	.Erm	.Erm	.Erm	.Erm	.Erm	.Erm	.Erm	
.Gref	.GRef	.GRef	.GRef	.GRef	.GRef	.GRef	.GRef	New in V22.00: alternative input to Young's modulus
.UnconfinedCompressiveStrength	.AbsSigmaCI	.AbsSigmaCI	.AbsSigmaCI	.AbsSigmaCI	.AbsSigmaCI	.AbsSigmaCI	.AbsSigmaCI	
.HoekBrownParameter	.mi	.mi	.mi	.mi	.mi	.mi	.mi	
.GeologicalStrengthIndex	.GSI	.GSI	.GSI	.GSI	.GSI	.GSI	.GSI	
.DisturbanceFactor	.Disturbance	.Disturbance	.Disturbance	.Disturbance	.Disturbance	.Disturbance	.Disturbance	
.mb	.mb	.mb	.mb	.mb	.mb	.mb	.mb	Hoek-Brown m_b
.s	.s	.s	.s	.s	.s	.s	.s	Hoek-Brown s
.a	.alpha	.alpha	.alpha	.alpha	.alpha	.alpha	.alpha	Hoek-Brown a
.sigt	.SigmaT	.SigmaT	.SigmaT	.SigmaT	.SigmaT	.SigmaT	.SigmaT	Rock mass parameter
.sigc	.SigmaC	.SigmaC	.SigmaC	.SigmaC	.SigmaC	.SigmaC	.SigmaC	Rock mass parameter
.MaximumDilitationAngle	.psiMax	.psiMax	.psiMax	.psiMax	.psiMax	.psiMax	.psiMax	
.MinorPrincipalStress	.sigmaPsi	.sigmaPsi	.sigmaPsi	.sigmaPsi	.sigmaPsi	.sigmaPsi	.sigmaPsi	

User Defined Soil Model

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
.UserDLLName	.DllFile	.DllFile	.DllFile	.DllFile	.DllFile	.DllFile	.DllFile	New in V22.00: property is enumeration. Use string representation when setting the value
.UserModel	.ModelInDll	.ModelInDll	.ModelInDll	.ModelInDll	.ModelInDll	.ModelInDll	.ModelInDll	New in V22.00: property is enumeration. Use string representation when setting the value

Plates (2D)

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
.MaterialName	.Identification	.Identification	.Identification	.Identification	.Identification	.Identification	.Identification	
.Elasticity	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	Material Type needs to be set explicitly
.IsIsotropic	.Isotropic	.Isotropic	.Isotropic	.Isotropic	.Isotropic	.Isotropic	.Isotropic	
.EA	.EA1	.EA1	.EA1	.EA1	.EA1	.EA1	.EA1	
.nu	.StructNu	.StructNu	.StructNu	.StructNu	.StructNu	.StructNu	.StructNu	
.d	.D2d	.d	.d	.d	.d	.d	.d	Thinkness of the plate
.w	.W	.w	.w	.w	.w	.w	.w	
.Np	.Np1	.Np1	.Np1	.Np1	.Np1	.Np1	.Np1	
.Mp	.MP	.MP	.MP	.MP	.MP	.MP	.MP	
.Gref	x	x	x	x	x	x	x	Deprecated. Instead use .EA1
.ElastoplasticMKTable	.MkappaDiagram	.MkappaDiagram	.MkappaDiagram	.MkappaDiagram	.MkappaDiagram	.MkappaDiagram	.MkappaDiagram	* only used when .MaterialType is set to *Elastoplastic (M-kappa)*

Plates (3D)

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
.MaterialName	.Identification	.Identification	.Identification	.Identification	.Identification	.Identification	.Identification	
.Elasticity	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	Material Type needs to be set explicitly
.w	.Gamma	.Gamma	.Gamma	.Gamma	.Gamma	.Gamma	.Gamma	
.IsIsotropic	.Isotropic	.Isotropic	.Isotropic	.Isotropic	.Isotropic	.Isotropic	.Isotropic	
.d	.D3d	.d	.d	.d	.d	.d	.d	Thinkness of the plate
.Nu12	.StructNu12	.StructNu12	.StructNu12	.StructNu12	.StructNu12	.StructNu12	.StructNu12	
.sigy11	.YieldStress11	.YieldStress11	.YieldStress11	.YieldStress11	.YieldStress11	.YieldStress11	.YieldStress11	* only used when .MaterialType is set to *Elastoplastic*
.sigy22	.YieldStress22	.YieldStress22	.YieldStress22	.YieldStress22	.YieldStress22	.YieldStress22	.YieldStress22	* only used when .MaterialType is set to *Elastoplastic*
.W11	.W11	.W11	.W11	.W11	.W11	.W11	.W11	* only used when .MaterialType is set to *Elastoplastic*
.W22	.W22	.W22	.W22	.W22	.W22	.W22	.W22	* only used when .MaterialType is set to *Elastoplastic*

Geogrids

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
.MaterialName	.Identification	.Identification	.Identification	.Identification	.Identification	.Identification	.Identification	
.Elasticity	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	Material Type needs to be set explicitly
.IsIsotropic	.Isotropic	.Isotropic	.Isotropic	.Isotropic	.Isotropic	.Isotropic	.Isotropic	
.N1Eps1Table	.N1eps1	.N1eps1	.N1eps1	.N1eps1	.N1eps1	.N1eps1	.N1eps1	* only used when .MaterialType is set to *Elastoplastic (N-eps)*
.N2Eps2Table	.N2eps2	.N2eps2	.N2eps2	.N2eps2	.N2eps2	.N2eps2	.N2eps2	* only used when .MaterialType is set to *Elastoplastic (N-eps)* and *anisotropic*

Beams (3D)

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
.MaterialName	.Identification	.Identification	.Identification	.Identification	.Identification	.Identification	.Identification	
.Elasticity	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	Material Type needs to be set explicitly
.w	.Gamma	.Gamma	.Gamma	.Gamma	.Gamma	.Gamma	.Gamma	
.BeamType	.CrossSectionType	.CrossSectionType	.CrossSectionType	.CrossSectionType	.CrossSectionType	.CrossSectionType	.CrossSectionType	
.PredefinedBeamType	.PredefinedCrossSectionType	.PredefinedCrossSectionType	.PredefinedCrossSectionType	.PredefinedCrossSectionType	.PredefinedCrossSectionType	.PredefinedCrossSectionType	.PredefinedCrossSectionType	
.Iyy	.I3	.I3	.I3	.I3	.I3	.I3	.I3	
.Izz	.I2	.I2	.I2	.I2	.I2	.I2	.I2	
.sigy	.YieldStress	.YieldStress	.YieldStress	.YieldStress	.YieldStress	.YieldStress	.YieldStress	* only used when .MaterialType is set to *Elastoplastic*

Embedded beams

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
embeddedbeamrow()	embeddedbeam()	embeddedbeam()	embeddedbeam()	embeddedbeam()	embeddedbeam()	embeddedbeam()	embeddedbeam()	Removed the word *row* from the command. PLAXIS 2D only
.MaterialName	.Identification	.Identification	.Identification	.Identification	.Identification	.Identification	.Identification	
.Elasticity	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	Material Type needs to be set explicitly
.Lspacing	.LSpacing	.LSpacing	.LSpacing	.LSpacing	.LSpacing	.LSpacing	.LSpacing	PLAXIS 2D only
.BeamType	.CrossSectionType	.CrossSectionType	.CrossSectionType	.CrossSectionType	.CrossSectionType	.CrossSectionType	.CrossSectionType	
.PredefinedBeamType	.PredefinedCrossSectionType	.PredefinedCrossSectionType	.PredefinedCrossSectionType	.PredefinedCrossSectionType	.PredefinedCrossSectionType	.PredefinedCrossSectionType	.PredefinedCrossSectionType	
.w	.Gamma	.Gamma	.Gamma	.Gamma	.Gamma	.Gamma	.Gamma	
.Iyy	.I	.I	.I	.I	.I	.I	.I	PLAXIS 2D only
.Iyy	.I3	.I3	.I3	.I3	.I3	.I3	.I3	PLAXIS 3D only
.Izz	.I2	.I2	.I2	.I2	.I2	.I2	.I2	PLAXIS 3D only
.SkinResistance	.AxialSkinResistance	.AxialSkinResistance	.AxialSkinResistance	.AxialSkinResistance	.AxialSkinResistance	.AxialSkinResistance	.AxialSkinResistance	
.Tstart	.TSkinStartMax	.TSkinStartMax	.TSkinStartMax	.TSkinStartMax	.TSkinStartMax	.TSkinStartMax	.TSkinStartMax	
.Tend	.TSkinEndMax	.TSkinEndMax	.TSkinEndMax	.TSkinEndMax	.TSkinEndMax	.TSkinEndMax	.TSkinEndMax	
.SkinResistanceTable	.MultiLinearAxialSkinResistance	.MultiLinearAxialSkinResistance	.MultiLinearAxialSkinResistance	.MultiLinearAxialSkinResistance	.MultiLinearAxialSkinResistance	.MultiLinearAxialSkinResistance	.MultiLinearAxialSkinResistance	* only used when .AxialSkinResistance is set to *Mulit-linear*
.Tmax	.TMax	.TMax	.TMax	.TMax	.TMax	.TMax	.TMax	* only used when .AxialSkinResistance is set to *Layer dependent*
.TLateralStart	.TLatStartMax	.TLatStartMax	.TLatStartMax	.TLatStartMax	.TLatStartMax	.TLatStartMax	.TLatStartMax	
.TLateralEnd	.TLatEndMax	.TLatEndMax	.TLatEndMax	.TLatEndMax	.TLatEndMax	.TLatEndMax	.TLatEndMax	
.Fmax	.FMax	.FMax	.FMax	.FMax	.FMax	.FMax	.FMax	
.DefaultStiffnessFactors	.DefaultValues	.DefaultValues	.DefaultValues	.DefaultValues	.DefaultValues	.DefaultValues	.DefaultValues	PLAXIS 2D only
.AxialSkinStiffnessFactor	.AxialStiffnessFactor	.AxialStiffnessFactor	.AxialStiffnessFactor	.AxialStiffnessFactor	.AxialStiffnessFactor	.AxialStiffnessFactor	.AxialStiffnessFactor	PLAXIS 2D only
.LateralSkinStiffnessFactor	.LateralStiffnessFactor	.LateralStiffnessFactor	.LateralStiffnessFactor	.LateralStiffnessFactor	.LateralStiffnessFactor	.LateralStiffnessFactor	.LateralStiffnessFactor	PLAXIS 2D only
.PileBaseStiffnessFactor	.BaseStiffnessFactor	.BaseStiffnessFactor	.BaseStiffnessFactor	.BaseStiffnessFactor	.BaseStiffnessFactor	.BaseStiffnessFactor	.BaseStiffnessFactor	PLAXIS 2D only

Cables

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
-	-	.Nptens	.Nptens	.Nptens	.NpTens	.NpTens	.NpTens	Following the CamelCase formatting
-	-	.Npcomp	.Npcomp	.Npcomp	.NpComp	.NpComp	.NpComp	Following the CamelCase formatting
-	-	cablebolt()	cablebolt()	cable()	cable()	cable()	cable()	Removed the word *bolt* from the command. PLAXIS 2D only
-	-	cableboltmat()	cableboltmat()	cablemat()	cablemat()	cablemat()	cablemat()	Removed the word *bolt* from the command. PLAXIS 2D only

Anchors

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
.MaterialName	.Identification	.Identification	.Identification	.Identification	.Identification	.Identification	.Identification	
.Elasticity	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	.MaterialType	Material Type needs to be set explicitly
.Lspacing	.LSpacing	.LSpacing	.LSpacing	.LSpacing	.LSpacing	.LSpacing	.LSpacing	* only for PLAXIS 2D
.FMaxTens	.FMaxTens	.FMaxTens	.FMaxTens	.FMaxTens	.FMaxTens	.FMaxTens	.FMaxTens	* only used when .MaterialType is set to *Elastoplastic*
.FMaxComp	.FMaxComp	.FMaxComp	.FMaxComp	.FMaxComp	.FMaxComp	.FMaxComp	.FMaxComp	* only used when .MaterialType is set to *Elastoplastic*
.FResidualTens	.FResTens	.FResTens	.FResTens	.FResTens	.FResTens	.FResTens	.FResTens	* only used when .MaterialType is set to *Elastoplastic with residual strength*
.FResidualComp	.FResComp	.FResComp	.FResComp	.FResComp	.FResComp	.FResComp	.FResComp	* only used when .MaterialType is set to *Elastoplastic with residual strength*
.FMaxTensPerLength	x	x	x	x	x	x	x	Removed in favor of .FMaxTens. PLAXIS 2D only
.FMaxCompPerLength	x	x	x	x	x	x	x	Removed in favor of .FMaxTens. PLAXIS 2D only

Discontinuity

V21.01	V22.00	V22.02	2023.1	2023.2	2024.2	2024.3	2025.1	Comment
-	-	.General.DiscontinuityMaterialSet	.General.DiscontinuityMaterialSet	.General.DiscontinuityMaterialSet	.General.DiscontinuityMaterialSet	.General.MaterialSet	.General.MaterialSet	Updated for consistency purposes
-	-	.Groundwater.DiscontinuityGroundwater	.Groundwater.DiscontinuityGroundwater	.Groundwater.DiscontinuityGroundwater	.Groundwater.DiscontinuityGroundwater	.Groundwater.FlowParameters	.Groundwater.FlowParameters	Updated for consistency purposes

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Downloads

- Material property changes for Python scripting overview - All versions [PDF]

See also

How to define and edit a material via the command line *[Tips and Tricks]*

PLAXIS Soil model numbers in command line *[Videos]*

Material lists in PLAXIS *[API/Python]*