

## Diagram Documentation

### Shapes

Field	Description	Type	Default	Other
ShapeID		int		PK
Shape		varchar(255)		
Description		varchar(1024)		
DimensionTabIndex		int		
PriceFormat		varchar(50)		
PriceFormatDisplay		varchar(255)		
WeightFormat		varchar(50)		
SurfaceAreaFormat		varchar(50)		
PropertyFormat		varchar(50)		
MaterialGroupID		int		
StandardClip		boolean		
Combining		boolean		
PDCPieceMarkRequired		boolean		
ShowShape		boolean		
ERPDesignation		varchar(255)		
ExcludeFromInstanceTracking		boolean		
AllowSplit		boolean		
CostCodeID		int		
CostTypeID		int		

### Sizes

Field	Description	Type	Default	Other
SizeID		int		PK
ShapeID		int		FK
DimDepth		decimal(18,9)		
DimDepthImperial		decimal(18,9)		
DimDepthMetric		decimal(18,9)		
DimWidth		decimal(18,9)		
DimWidthImperial		decimal(18,9)		
DimWidthMetric		decimal(18,9)		
DimWeight		decimal(18,9)		
DimWeightImperial		decimal(18,9)		
DimWeightMetric		decimal(18,9)		

Field	Description	Type	Default	Other
DimThickness		decimal(18,9)		
DimThicknessImperial		decimal(18,9)		
DimThicknessMetric		decimal(18,9)		
DimGage		varchar(255)		
DimGageImperial		varchar(255)		
DimGageMetric		varchar(255)		
DimDiameter		decimal(18,9)		
DimDiameterImperial		decimal(18,9)		
DimDiameterMetric		decimal(18,9)		
DimComment		varchar(1024)		
SizeUnits		varchar(50)		
BaseWeight		decimal(18,9)		
UnitWeight		decimal(18,9)		
XSectionalArea		decimal(18,9)		
Depth		decimal(18,9)		
FlangeWidth		decimal(18,9)		
FlangeThickness		decimal(18,9)		
WebThickness		decimal(18,9)		
KDistance		decimal(18,9)		
AdjustedK		decimal(18,9)		
UsualGage		varchar(255)		
SecondaryGage		varchar(255)		
AxisXXS		decimal(18,9)		
InsideDiameter		decimal(18,9)		
OutsideDiameter		decimal(18,9)		
WallThickness		decimal(18,9)		
CalcRevaluation		boolean		
RevaluationLength1		decimal(18,9)		
RevaluationLength2		decimal(18,9)		
RevaluationLength3		decimal(18,9)		
RevaluationPrice1		decimal(18,9)		
RevaluationPrice2		decimal(18,9)		
RevaluationPrice3		decimal(18,9)		
ChargeLength		decimal(18,9)		
CalcScrap		boolean		
ScrapWidth		decimal(18,9)		
ScrapLength		decimal(18,9)		

Field	Description	Type	Default	Other
ScrapPrice		decimal(18,9)		
Kerf		decimal(18,9)		
KerfRipCut		decimal(18,9)		
KerfCrossCut		decimal(18,9)		
KerfInternalCut		decimal(18,9)		
TrimLeadingWidth		decimal(18,9)		
TrimLeadingLength		decimal(18,9)		
TrimTrailingWidth		decimal(18,9)		
TrimTrailingLength		decimal(18,9)		
ClampAllowanceFromPart		decimal(18,9)		
ValidCombiningScrapPercentage		decimal(18,9)		
FirstCutCost		decimal(18,9)		
FirstCutCharge		decimal(18,9)		
AdditionalCutCost		decimal(18,9)		
AdditionalCutCharge		decimal(18,9)		
DimensionSizesImperial		varchar(255)		
DimensionSizesImperial_Reverse		varchar(255)		
DimensionSizesImperial_EDl		varchar(255)		
DimensionSizesMetric		varchar(255)		
DimensionSizesMetric_Reverse		varchar(255)		
DimensionSizesMetric_EDl		varchar(255)		
Dim1Imperial		decimal(18,9)		
Dim1Metric		decimal(18,9)		
Dim1SortValue		decimal(18,9)		
Dim2Imperial		decimal(18,9)		
Dim2Metric		decimal(18,9)		
Dim2SortValue		decimal(18,9)		
Dim3Imperial		decimal(18,9)		
Dim3Metric		decimal(18,9)		
Dim3SortValue		decimal(18,9)		
Dim4Imperial		decimal(18,9)		
Dim4Metric		decimal(18,9)		
Dim4SortValue		decimal(18,9)		
Dim5Imperial		decimal(18,9)		
Dim5Metric		decimal(18,9)		
Dim5SortValue		decimal(18,9)		
Dim6Imperial		decimal(18,9)		

Field	Description	Type	Default	Other
Dim6Metric		decimal(18,9)		
Dim6SortValue		decimal(18,9)		
SortOrder		int		
SortOrder_Reverse		int		
ProNestDesignation		varchar(255)		
SigmaNestDesignation		varchar(255)		
ERPDesignation		char(1)		

## Grades

Field	Description	Type	Default	Other
GradeID		int		PK
ShapeID		int		FK
Grade		varchar(255)		
DefaultGrade		boolean		
WeightMultiplier		decimal(10,2)		
ProNestDesignation		varchar(255)		

## LaborRates

Field	Description	Type	Default	Other
LaborRateID		int		PK
Description		varchar(1024)		
LaborRateCurrencyID		int		
LaborRate		decimal(10,2)		
SpecialMeaning		varchar(255)		
CostCodeID		int		
CostTypeID		int		

## LaborGroups

Field	Description	Type	Default	Other
LaborGroupID		int		PK
Number		int		
Description		varchar(1024)		
LaborRateID		int		FK
Activity		varchar(255)		

## Estimates

Field	Description	Type	Default	Other
EstimateID		int		PK
Estimator		varchar(255)		
BidDate		date		
JobNumber		varchar(255)		
JobName		varchar(255)		
Location		varchar(255)		
JobStatusID		int		
DistanceToJob		decimal(10,2)		
ShopDrawingCostCurrencyID		int		
GalvanizingCostPerKilogramCi		int		
GalvanizingMinimumCostCurrencyID		int		
GalvanizingFreightCostCurren		int		
GalvanizingLaborCostCurrencyID		int		
ShopDrawingCost		decimal(10,2)		
GalvanizingCostPerKilogram		decimal(10,2)		
GalvanizingMinimumCost		decimal(10,2)		
GalvanizingTruckWeight		decimal(10,2)		
GalvanizingFreightCost		decimal(10,2)		
GalvanizingLaborCost		decimal(10,2)		
GalvanizingWeightPercent		decimal(5,2)		
LaborArchiveDateTime		datetime		
LaborArchiveID		int		
PricingCombinationRunID		int		
LengthInputTypeIDImperial		int		
LengthInputTypeIDMetric		int		
ThicknessInputTypeIDImperial		int		
ThicknessInputTypeIDMetric		int		
DefaultFinish		varchar(255)		
DefaultPaintSystemID		int		
DefaultCleanSystemID		int		
ItemIncrement		int		
InputDisplayUnitsSize		varchar(50)		
InputDisplayUnitsLength		varchar(50)		
InputDisplayUnitsWeight		varchar(50)		
InputDisplayUnitsPrice		varchar(50)		
AutoClipAngles		boolean		
UseGradeSubstitutions		boolean		

Field	Description	Type	Default	Other
ApplyKerfMult		boolean		
ApplyKerfNest		boolean		
CombiningRotatePlates		boolean		
CombiningAllowSplitTees		boolean		
NestingShearCut		boolean		

## EstimateItems

Field	Description	Type	Default	Other
EstimateItemID		int		PK
EstimateID		int		FK
ItemID		int		
Page		int		
AccessoryItemID		int		
PartNumber		varchar(255)		
DimensionString		varchar(255)		
DimensionStringMetric		varchar(255)		
ManHours		decimal(10,2)		
CalculatedManHours		decimal(10,2)		
ManualOverrideSum		decimal(10,2)		
Weight		decimal(10,2)		
WeightItem		decimal(10,2)		
WeightWeld		decimal(10,2)		
SurfaceArea		decimal(10,2)		
SquareMetersEach		decimal(10,2)		
Perimeter		decimal(10,2)		
MaterialCostPricingTypeID		int		
MaterialCostCurrencyID		int		
MaterialUnitCost		decimal(10,2)		
MaterialCost		decimal(10,2)		
MaterialDropCost		decimal(10,2)		
MaterialDropWeight		decimal(10,2)		
MaterialCostUnits		varchar(50)		
MaterialCostDate		date		
ShopBolts		int		
FieldBolts		int		
Quantity		int		
ShapelID		int		FK

Field	Description	Type	Default	Other
SizeID		int		FK
DimDepth		decimal(10,2)		
DimWidth		decimal(10,2)		
DimWeight		decimal(10,2)		
DimThickness		decimal(10,2)		
DimGage		varchar(50)		
DimDiameter		decimal(10,2)		
DimComment		varchar(1024)		
Length		decimal(10,2)		
GradeID		int		FK
Camber		decimal(10,2)		
EstimateExtraString		varchar(1024)		
LaborCodeID		int		
Copes		int		
Holes		int		
HolesWithoutBolts		int		
Stiffeners		int		
TopFlangeHoles		int		
WebHoles		int		
BottomFlangeHoles		int		
WeldedStuds		int		
ManHoursPerPiece		decimal(10,2)		
CostPerPieceCurrencyID		int		
CostPerPiece		decimal(10,2)		
ManualUnitCostCurrencyID		int		
ManualUnitCost		decimal(10,2)		
ManualCost		decimal(10,2)		
ManualEstimateCostUnitID		int		
Finish		varchar(255)		
PaintSystemID		int		
CleanSystemID		int		
CategoryID		int		
SubCategoryID		int		
Sequence		int		
MainPiece		boolean		
DetailingHours		decimal(10,2)		
ErectHours		decimal(10,2)		

Field	Description	Type	Default	Other
DetailingCostCurrencyID		int		
DetailingCost		decimal(10,2)		
ErectCostCurrencyID		int		
ErectCost		decimal(10,2)		
Comment		varchar(1024)		
ProductionCodeID		int		
EstimateStatusID		int		
CostCodeID		int		
CostTypeID		int		
Recalculate		boolean		
ReloadStandardClips		boolean		

## EstimateItemLabor

Field	Description	Type	Default	Other
EstimateItemID		int		FK
LaborGroupID		int		FK
ManHours		decimal(10,2)		
CalculatedManHours		decimal(10,2)		