

DIGITAL + PRODUCT CREATION



KOHL'S

3D Size Set Sample Outputs

Technical Design & Technology Standard

TABLE OF CONTENTS

3 [USE CASES](#)

4 [OUTPUTS](#)

7 [FILE UPLOAD](#)

8 [APPENDIX](#)

A [3D SIZE SET EXAMPLE\(S\)](#)

B [PATTERN SET UP IN BROWZWEAR](#)

C [PATTERN PIECE NAMING CONVENTIONS](#)

USE CASES

When are Size Sets necessary?

Kohl's TD's will request size sets on a case by case basis. The following is a list of examples of 3D size set use cases:

Confirming **vendor proposed grade changes** that significantly impact Critical POMs/Fit. For example, verifying shirring ratio deviations vs following the standard grade

Confirming **grading of certain silhouettes** (for example, exaggerated necklines, dolman/dropped shoulders, or piecing details) that may require verifying how the piecing is graded by size

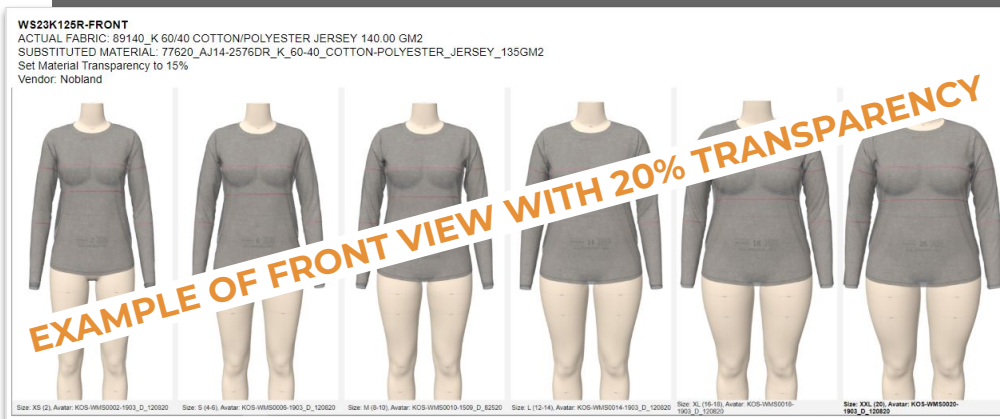
Verifying **grading accuracy** of a new vendor to Kohls or new to a size range

Verifying Kohls internal standard **grade updates**

Reviewing and **Approving Alvanon Avatar size runs** (for future size ranges)

OUTPUTS Size Run Images Checklist

Follow all standards for fit samples. Additional outputs for size runs will include front, right side and back images in transparent fabric and pressure map views, see the below checklist (**See Appendix A for all image files**):

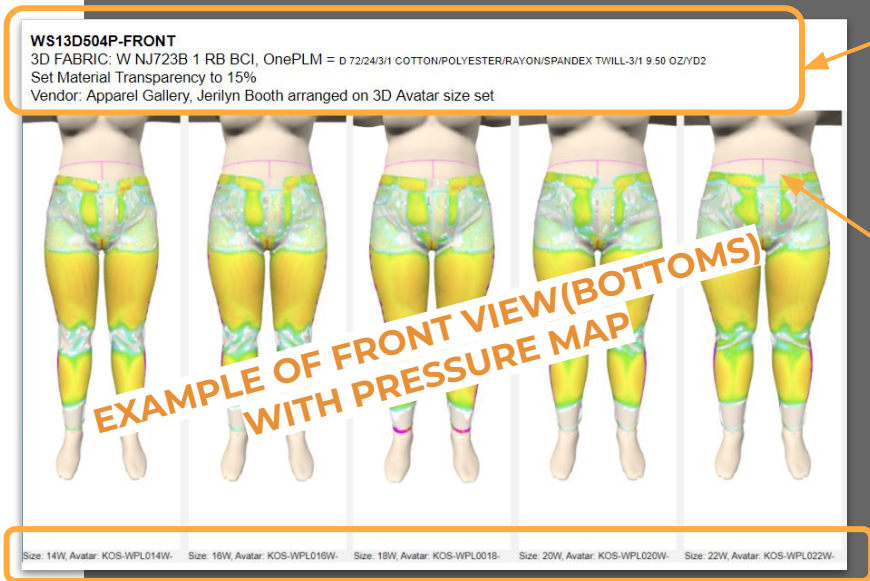


Size Run Output Checklist (7+ image files total):

- FRONT VIEW (000)** of size run in 20% transparency
- FRONT VIEW (000)** of size run shown with pressure map
- RIGHT SIDE VIEW (270)** of size run in 20% transparency
- RIGHT SIDE VIEW (270)** of size run shown with pressure map
- BACK VIEW (180)** of size run shown in 20% transparency
- BACK VIEW (180)** of size run shown with pressure map
- Measurement Chart Image
- ADDITIONAL VIEWS IF REQUESTED

OUTPUTS Size Run Images Standards

The following requirements apply to 3D Size Run Outputs:



1. Include fit details on each page (style number, view, fabric, transparency level, vendor name, etc)
2. Arrange sizes from smallest to largest from left to right on the page
3. Align sizes horizontally, using a consistent camera focal point
4. Crop images at same point across all sizes and views
5. **Bottoms Only:** Include 3D Measure tapes (used as Avatar Body landmarks) for verifying correct waist placement
6. Avatar pose depends on garment type. For tops use I-Pose, for bottoms use T-Pose.
7. Label size below each image

NOTE! You do not need to include entire body, per the example tops can be cut off at the knee.

OUTPUTS Pattern

Follow all existing Pattern Guidelines and [Sample Standards](#) in addition to the following requirements for 3D Size Run pattern files:

General Guidelines

1. Graded pattern includes the full size range purchased for the style.
2. Label pattern pieces by style #/pattern piece location in garment (see [Appendix B](#)).
3. Label graded pattern sizes following the Numeric or Alpha size in garment label

Browzwear Specific Guidelines

4. Include Internal reference lines for measuring/verifying critical POM grade by size and grade.
5. Internal reference lines on pattern should be made visible on 3D Avatar view to verify alignment of internal line vs avatar reference marks. Include Visible Internal reference lines for:
TOPS/DRESSES: Chest, Upper arm, waist (if applicable)
BOTTOMS: Hip, Thigh, Knee (if applicable)
6. Set up pattern rulers to verify graded pattern measurements against the POM spec in 3D file (See [Appendix B](#))

FILE UPLOAD

Images And Working Files

To upload files, please follow the same process as physical samples. Reference the chart below for specific instructions. Size runs will be requested by TD between Fit Approval and PP Approval.

3D SIZE RUN

ENGAGE VENDORS

N/A

COLLABORATE VENDORS

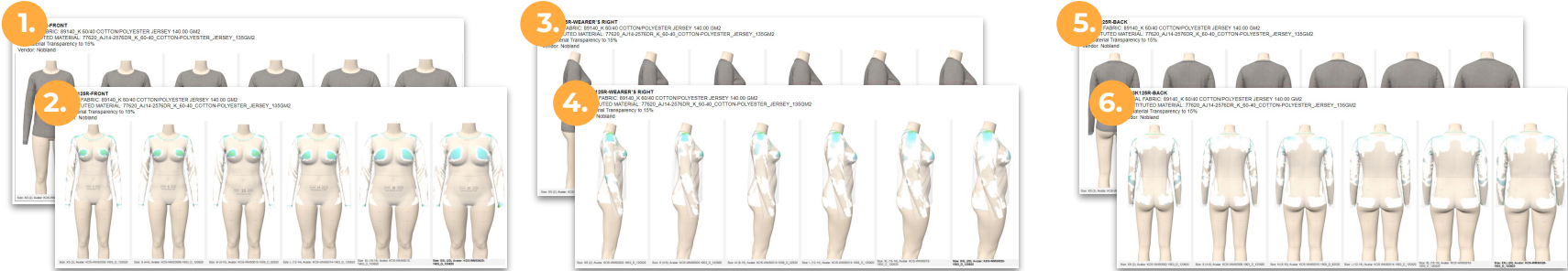
NOTIFY TD USING THREADED MESSAGING IN ONE PLM (OR) NOTES IN FIT EVAL

UPLOAD .BW FILE AND IMAGES* TO **PP FIT EVAL**

UPLOAD FRONT, BACK, AND SIDE FULL SIZE RUN IMAGES AS SEPARATE .JPEG or .PNG FILES. SEE [APPENDIX A](#) FOR EXAMPLES.

APPENDIX A 3D SIZE SET EXAMPLE

The following is an example of the supplemental output required for 3D size set runs. This includes **7 separate image files** including physical sample images and graded pattern measurements chart as outlined in the [Outputs](#) section. Follow the instructions in [File Upload](#) section when you are ready to share.



7. Inches

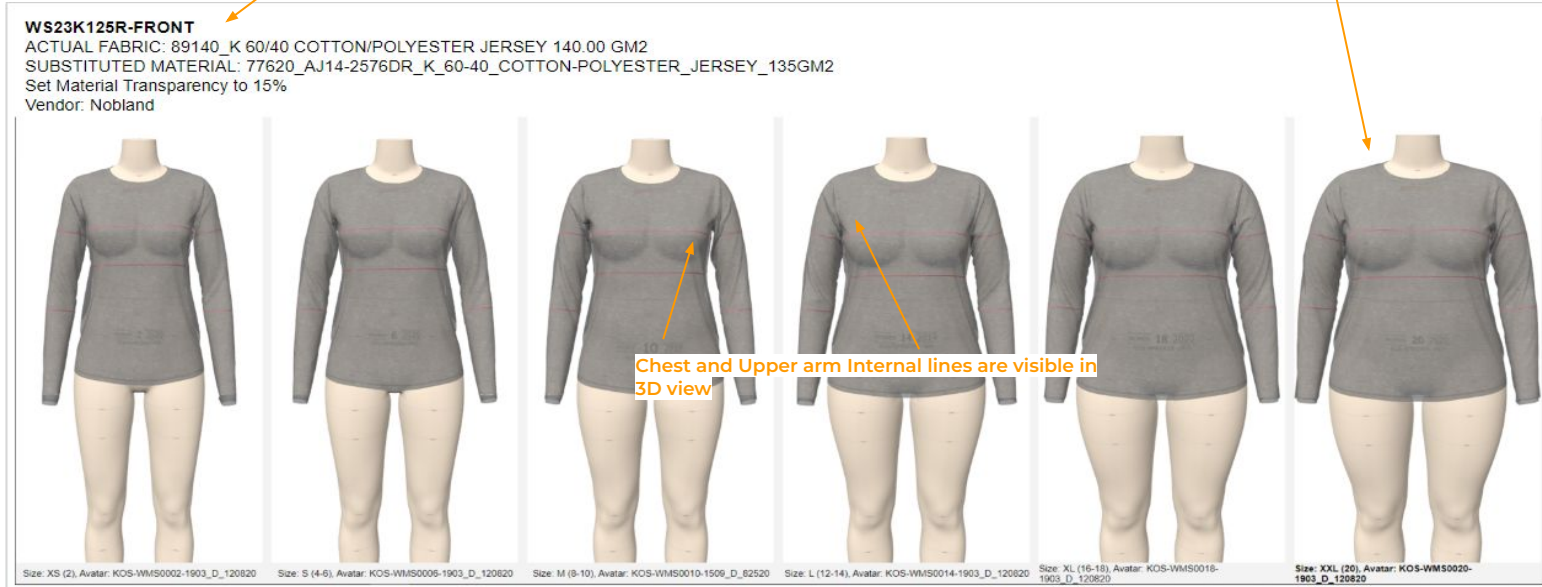
	WS13D504P - GRADED PATTERN MEASUREMENTS							
	14W	16W	18W	20W	22W	24W	26W	28W
Inhigh/2	26	27 2/8	28 4/8	29 6/8	31	32 2/8	33 3/8	34 5/8
Hip	21 3/8	22 3/8	23 3/8	24 3/8	25 3/8	26 3/8	27 3/8	28 3/8
Waist/2	38	39 7/8	41 7/8	43 6/8	45 5/8	47 5/8	49 4/8	51 3/8
Knee/2	16 7/8	17 3/8	17 7/8	18 2/8	18 6/8	19 2/8	19 6/8	20 2/8
Calf/2	16 1/8	16 5/8	17	17 4/8	18	18 3/8	18 7/8	19 3/8
Inseam	26 2/8	26 2/8	26 3/8	26 4/8	26 5/8	26 6/8	26 7/8	27
Ffr Rise	10 4/8	10 6/8	11 1/8	11 4/8	11 6/8	12 1/8	12 4/8	12 6/8
Bk Rise	17 4/8	17 6/8	18	18 2/8	18 4/8	18 6/8	19 1/8	19 3/8
Leg Opening/2	11 6/8	12 2/8	12 4/8	12 6/8	13 2/8	13 4/8	14	14 1/8



APPENDIX A 3D SIZE SET EXAMPLE - PAGE 1

Size Set image has all sizes of same view/pose in 1 image.
Page is labeled with style #, Fabric information, Material
Transparency setting, & Vendor

Avatar Pose: I-Pose to maximize size of top relative to BW
viewing window in 3D review.



Chest and Upper arm Internal lines are visible in
3D view

Sizes are labeled below each
Avatar

APPENDIX A 3D SIZE SET EXAMPLE - PAGE 2

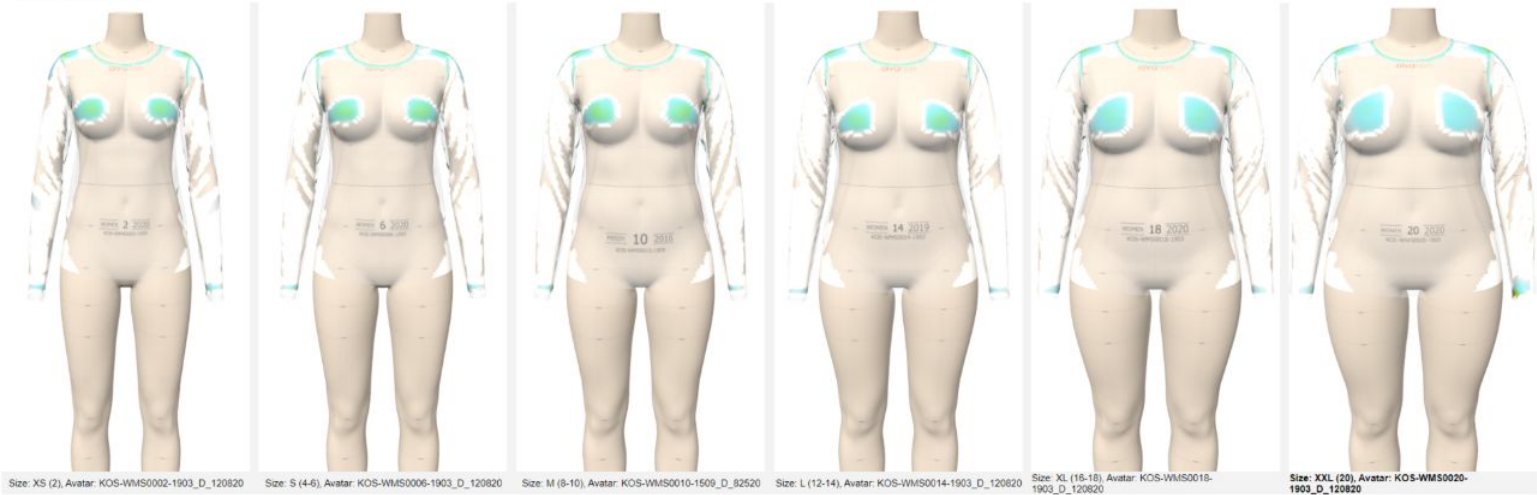
WS23K125R-FRONT Pressure Map View

ACTUAL FABRIC: 89140_K 60/40 COTTON/POLYESTER JERSEY 140.00 GM2

SUBSTITUTED MATERIAL: 77620_AJ14-2576DR_K_60-40_COTTON-POLYESTER_JERSEY_135GM2

Set Material Transparency to 15%

Vendor: Nobland

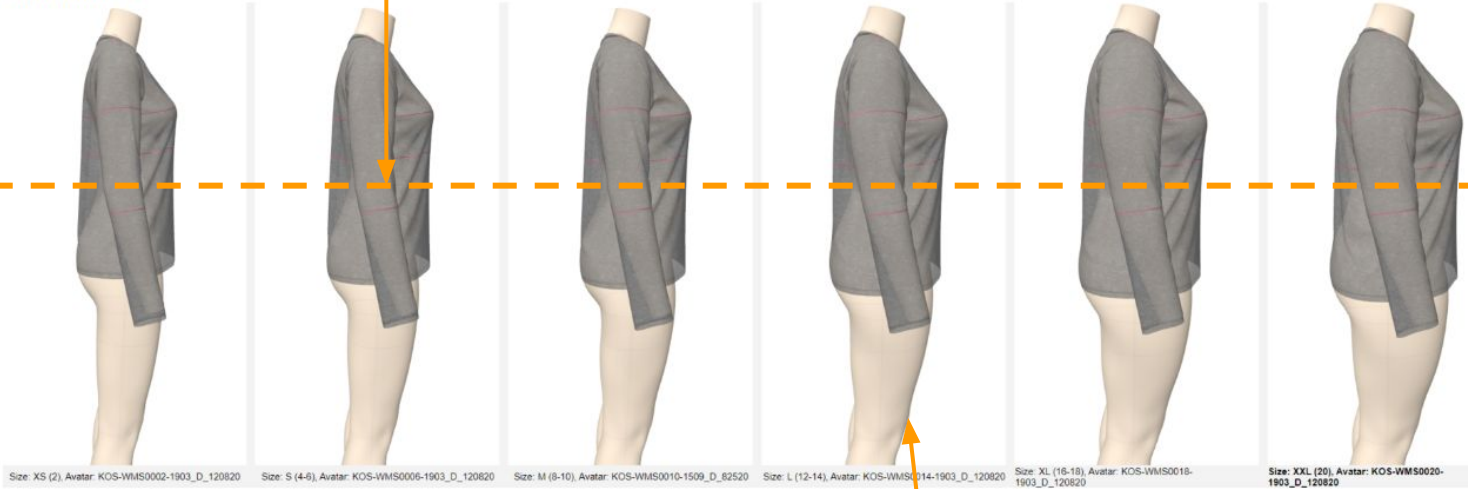


APPENDIX A 3D SIZE SET EXAMPLE - PAGE 3

Camera focal point is set to mid-point of body for all views - not looking up or looking down.

WS23K125R-WEARER'S RIGHT

ACTUAL FABRIC: 89140_K 60/40 COTTON/POLYESTER JERSEY 140.00 GM2
SUBSTITUTED MATERIAL: 77620_AJ14-2576DR_K_60-40_COTTON-POLYESTER_JERSEY_135GM2
Set Material Transparency to 15%
Vendor: Nobland

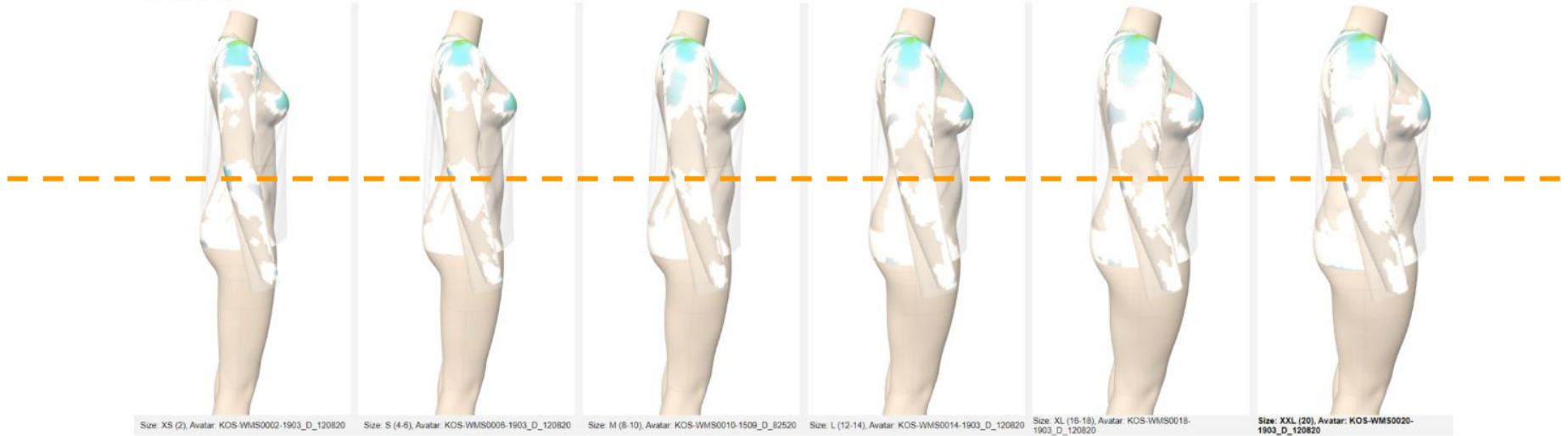


Note you do not have to include the full body. May crop images to cut off lower body - at Mid-thigh or knee for TOPS for better focal point of top

APPENDIX A 3D SIZE SET EXAMPLE - PAGE 4

WS23K125R-WEARER'S RIGHT Pressure Map View

ACTUAL FABRIC: 89140_K 60/40 COTTON/POLYESTER JERSEY 140.00 GM2
SUBSTITUTED MATERIAL: 77620_AJ14-2576DR_K_60-40_COTTON-POLYESTER_JERSEY_135GM2
Set Material Transparency to 15%
Vendor: Nobland



APPENDIX A 3D SIZE SET EXAMPLE - PAGE 5

WS23K125R-BACK

ACTUAL FABRIC: 89140_K 60/40 COTTON/POLYESTER JERSEY 140.00 GM2

SUBSTITUTED MATERIAL: 77620_AJ14-2576DR_K_60-40_COTTON-POLYESTER_JERSEY_135GM2

Set Material Transparency to 15%

Vendor: Nobland



APPENDIX A 3D SIZE SET EXAMPLE - PAGE 6

WS23K125R-BACK

ACTUAL FABRIC: 89140_K 60/40 COTTON/POLYESTER JERSEY 140.00 GM2

SUBSTITUTED MATERIAL: 77620_AJ14-2576DR_K_60-40_COTTON-POLYESTER_JERSEY_135GM2

Set Material Transparency to 15%

Vendor: Nobland



APPENDIX A 3D SIZE SET EXAMPLE - PAGE 7

FA22 – WS23K125RN3

PPS

Vendor: Nobland

SHOULDER FOLD LINE @ DRESS FORM SHOULDER SEAM

Base size PP
sample image is
also uploaded for
3D rendering
accuracy
comparison



SAME AS
PHYSICAL
SAMPLE
REQUIREMENT

*ONLY REQUIRED
IF PHYSICAL
SAMPLE IMAGES
ARE NOT
ALREADY IN PP
FIT EVAL*

Date: 21. Apr. 2021

COP: Vietnam (PUKU)

By : Jenny Truong (FTD/Asst.CTD)

APPENDIX A 3D SIZE SET EXAMPLE - PAGE 8

Include image of exported ruler measurements from Browzwear graded pattern to verify pattern is within reasonable range of spec & grading is correct. If there are issues with the pattern measurements or grading - such as the waist placement below, these issues must be reviewed with KTD before sending to Kohls.

Units: Inches	WS23K125R GRADED PATTERN MEASUREMENTS						
Size	XS	S	M	L	XL	XXL	COMMENTS
1. HPS Length	25	25 4/8	26	26 4/8	27	27 2/8	Pattern=spec, grading ok
2. Nk Width	7 6/8	8	8 2/8	8 4/8	8 6/8	8 7/8	Pattern=spec, grading ok
3. Ft Nk Drop	4	4 1/8	4 2/8	4 3/8	4 4/8	4 4/8	Pattern + 1/8", grading ok
4. Bk Nk Drop	1 1/8	1 1/8	1 2/8	1 2/8	1 3/8	1 4/8	Pattern + 1/8", grading ok
5.	13 3/8	13 7/8	14 3/8	15 1/8	15 6/8	16	Pattern -1/8", grading ok
	15 5/8	13 1/8	13 5/8	14 3/8	15	15 2/8	Pattern -1/8", grading ok
		14	14 4/8	15 2/8	15 7/8	16 1/8	Pattern=spec, grading ok
		18 6/8	19 6/8	21 2/8	23	24	Pattern=spec, grading ok
		18 2/8	19 2/8	20 6/8	22 4/8	23 4/8	Pattern -1/8", grading ok, Waist placement is 1/2" higher than spec
		19 4/8	20 4/8	22	23 6/8	24 6/8	Pattern=spec, grading ok
		8 2/8	8 5/8	9	9 3/8	9 4/8	Pattern -1/8", grading ok
		12 7/8	13 5/8	14 5/8	15 7/8	16 7/8	Pattern + 1/16", grading ok
		4	4 2/8	4 4/8	4 6/8	4 7/8	Pattern=spec, grading ok
		31 5/8	31 7/8	32 3/8	32 6/8	32 7/8	Pattern -1/8", grading ok

SAME AS
PHYSICAL
SAMPLE
REQUIREMENT

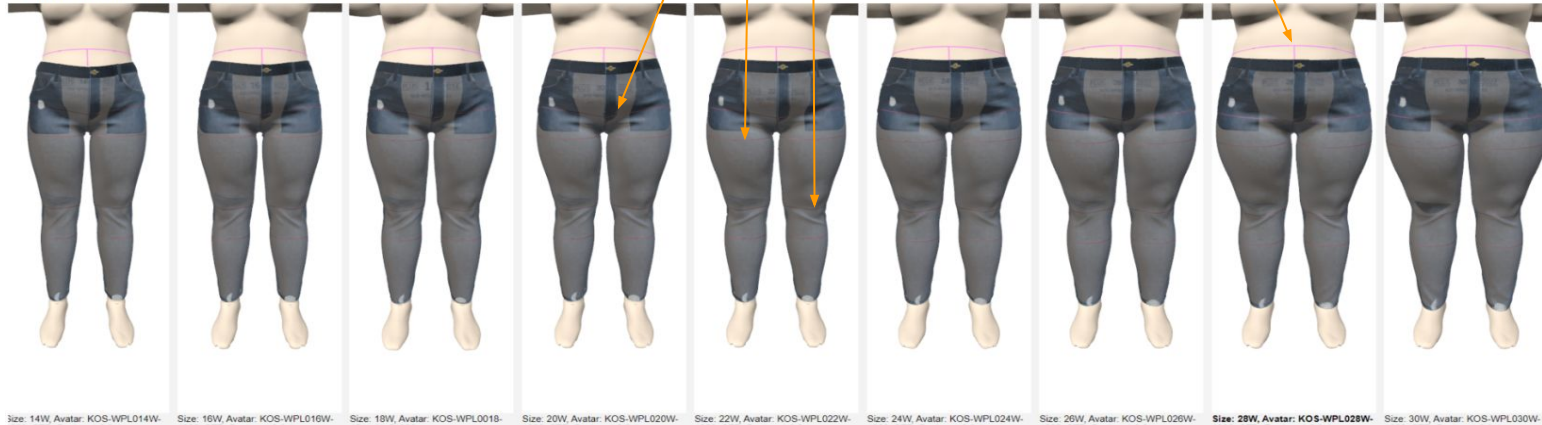
APPENDIX A 3D SIZE SET (BOTTOMS) EXAMPLE - PAGE 1

WS13D504P-FRONT

3D FABRIC: W NJ723B 1 RB BCI, OnePLM = D 72/24/3/1 COTTON/POLYESTER/RAYON/SPANDEX TWILL-3/1 9.50 0ZV/D2
Set Material Transparency to 15%
Vendor: Apparel Gallery, Jerilyn Booth arranged on 3D Avatar size set

3D Avatar Measurements body landmark for Waist placement is visible for confirming accurate waist placement for each size (must use screen capture since Browzwear Avatar Measurement tapes are not included in rendered images).

Hip, Thigh, and Knee Internal lines are visible in 3D view



Sizes are labeled below each Avatar

APPENDIX A 3D SIZE SET (BOTTOMS) EXAMPLE - PAGE 2



*Pressure Map view for numeric sizes on separate image due to # of sizes in the size range

APPENDIX A 3D SIZE SET (BOTTOMS) EXAMPLE - PAGE 3

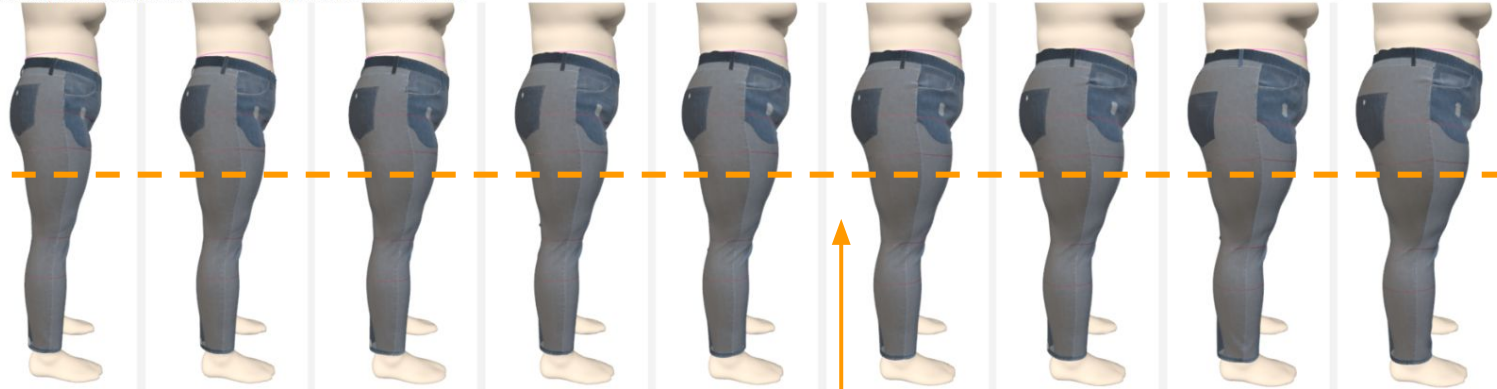
WS13D504P-WR SIDE

3D FABRIC: W NJ723B 1 RB BCI, OnePLM = D 72/24/3/1 COTTON/POLYESTER/RAYON/SPANDEX TWILL-3/1 9.50 OZ/YD2

Set Material Transparency to 15%

Vendor: Apparel Gallery, Jerilyn Booth arranged on 3D Avatar size set

Avatar Pose = T-Pose so arms are not in the way for viewing side view



Size: 14W, Avatar: KOS-WPL014W - Size: 16W, Avatar: KOS-WPL016W - Size: 18W, Avatar: KOS-WPL018W - Size: 20W, Avatar: KOS-WPL020W - Size: 22W, Avatar: KOS-WPL022W - Size: 24W, Avatar: KOS-WPL024W - Size: 26W, Avatar: KOS-WPL026W - Size: 28W, Avatar: KOS-WPL028W - Size: 30W, Avatar: KOS-WPL030W

Camera focal point is set to mid-point of body for all views - not looking up or looking down.
Note you do not have to include the full body. May render images to cut off at chest for bottoms so that image is larger.

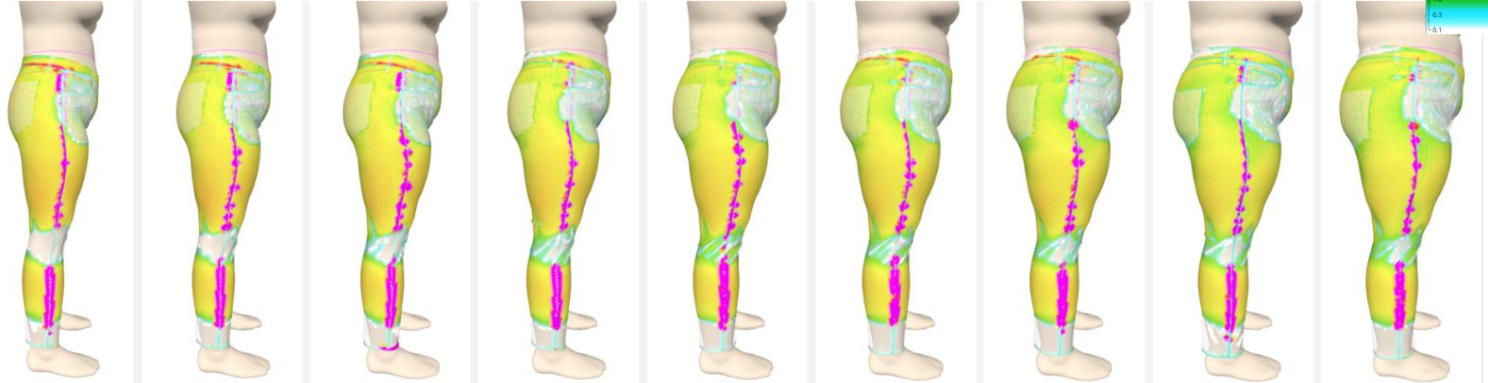
APPENDIX A 3D SIZE SET (BOTTOMS) EXAMPLE - PAGE 4

WS13D504P-WR SIDE

3D FABRIC: W NJ723B 1 RB BCI, OnePLM = D 72/24/3/1 COTTON/POLYESTER/RAYON/SPANDEX TWILL-3/1 9.50 OZ/YD2

Set Material Transparency to 15%

Vendor: Apparel Gallery, Jerilyn Booth arranged on 3D Avatar size set



Size: 14W, Avatar: KOS-WPL014W- Size: 16W, Avatar: KOS-WPL016W- Size: 18W, Avatar: KOS-WPL018W- Size: 20W, Avatar: KOS-WPL020W- Size: 22W, Avatar: KOS-WPL022W- Size: 24W, Avatar: KOS-WPL024W- Size: 26W, Avatar: KOS-WPL026W- **Size: 28W, Avatar: KOS-WPL028W-** Size: 30W, Avatar: KOS-WPL030W-

APPENDIX A 3D SIZE SET (BOTTOMS) EXAMPLE - PAGE 5

WS13D504P-BACK

3D FABRIC: W NJ723B 1 RB BCI, OnePLM = D 72/24/3/1 COTTON/POLYESTER/RAYON/SPANDEX TWILL-3/1 9.50 OZ/YD2

Set Material Transparency to 15%

Vendor: Apparel Gallery, Jerilyn Booth arranged on 3D Avatar size set



Size: 14W, Avatar: KOS-WPL014W-

Size: 16W, Avatar: KOS-WPL016W-

Size: 18W, Avatar: KOS-WPL0018-

Size: 20W, Avatar: KOS-WPL020W-

Size: 22W, Avatar: KOS-WPL022W-

Size: 24W, Avatar: KOS-WPL024W-

Size: 26W, Avatar: KOS-WPL026W-

Size: **28W, Avatar: KOS-WPL028W-**

Size: 30W, Avatar: KOS-WPL030W-

APPENDIX A 3D SIZE SET (BOTTOMS) EXAMPLE - PAGE 6

WS13D504P-BACK

3D FABRIC: W NJ723B 1 RB BCI, OnePLM = D 72/24/3/1 COTTON/POLYESTER/RAYON/SPANDEX TWILL-3/1 9 50 OZ/YD2

Set Material Transparency to 15%

Vendor: Apparel Gallery, Jerilyn Booth arranged on 3D Avatar size set



APPENDIX A 3D SIZE SET (BOTTOMS) EXAMPLE - PAGE 7

SP22 WS13D504 PP Denim



Base size PP sample image is also uploaded for 3D rendering accuracy comparison

SAME AS
PHYSICAL
SAMPLE
REQUIREMENT

*ONLY REQUIRED
IF PHYSICAL
SAMPLE IMAGES
ARE NOT
ALREADY IN PP
FIT EVAL*

APPENDIX A 3D SIZE SET (BOTTOMS) EXAMPLE - PAGE 8

Include image of exported ruler measurements from Browzwear graded pattern to verify pattern is within reasonable range of spec & grading is correct. If there are issues with the pattern measurements or grading - such as in this example below, these issues must be corrected on the graded pattern and in 3D snapshots before sending to Kohls.

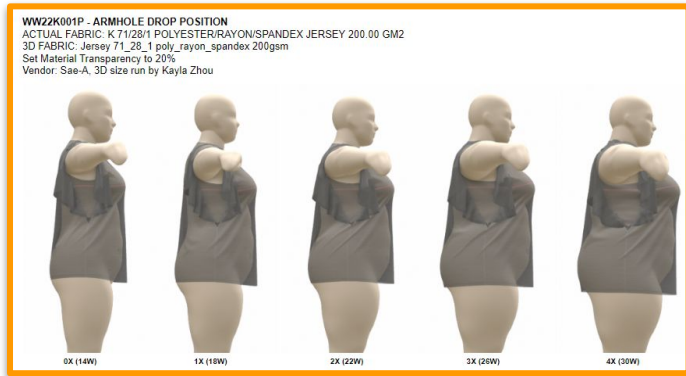
Units: Inches	WS13D504P - GRADED PATTERN MEASUREMENTS									
Size	14W	16W	18W	20W	22W	24W	26W	28W	30W	
Thigh/2	26	27 2/8	28 4/8	29 6/8	31	32 2/8	33 3/8	34 5/8	35 7/8	Pattern + 1/2", Grading OK
Hip	21 3/8	22 3/8	23 3/8	24 3/8	25 3/8	26 3/8	27 3/8	28 3/8	29 3/8	Pattern + 3/8", Grading OK
Waist/C	28	39 7/8	41 7/8	43 6/8	45 5/8	47 5/8	49 4/8	51 3/8	53 3/8	Pattern + 1/2", Grading OK
		17 3/8	17 7/8	18 2/8	18 6/8	19 2/8	19 6/8	20 2/8	20 6/8	Pattern - 1/8", Grading OK - Knee location is correct for REG inseam!
		15/8	17	17 4/8	18	18 3/8	18 7/8	19 3/8	19 7/8	Pattern OK, Size 14W = - 3/8", Size 30W = - 5/8", Calf grade is smaller than spec sheet
		26 3/8	26 3/8	26 4/8	26 5/8	26 6/8	26 7/8	27	27 1/8	Calf location is correct for REG inseam! Inseam - 2 1/8"? There is no grading applied to the length, the inseam length is changing due to curvature change of inseam.
		11 1/8	11 1/8	11 4/8	11 6/8	12 1/8	12 4/8	12 6/8	13	Pattern - 1/8", Size 22W-30W are -1/4" on front rise grade
		18	18	18 2/8	18 4/8	18 6/8	19 1/8	19 3/8	19 5/8	Pattern OK, Size 14W=+ 1/4", Size 30W = -5/8"
		12 4/8	12 4/8	12 6/8	13 2/8	13 4/8	14	14 1/8	14 5/8	Pattern OK, Size 28 & 30W - 1/8"
										Back pocket size/placement from CB follows graded spec

SAME AS
PHYSICAL
SAMPLE
REQUIREMENT

APPENDIX A 3D SIZE SET EXAMPLE - ADDITIONAL VIEWS

In some cases, Kohl's TD may request additional views. The examples below show how these should be formatted.

Example #1: Sleeveless Top



Additional T-Pose view with lower camera focal point to verify armhole drop placement

Example #2: Cargo Pant w/ Side Pocket

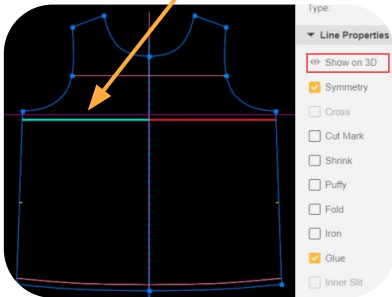


Additional WL ¾ pose due to cargo pocket is only visible on WL side.

APPENDIX B 3D SIZE SET PATTERN SET UP IN BROWZWEAR

Internal lines on pattern are graded to match pattern edges AND used to set up pattern rulers for verifying grading accuracy. See examples below.

Internal reference lines are made **visible in 3D window** for comparing to Avatar markings



HOLD DOWN SHIFT KEY TO SELECT MULTIPLE INTERNAL LINES THAT MUST BE MEASURED TOGETHER TO FIND THE SPEC MEASUREMENT. IN THE CASE OF THIGH, KNEE, LEG OPENING, YOU WILL NEED TO DIVIDE BY 2 TO GET THE SPEC MEASUREMENT.

Units: Inches	WS23K125P - GRADED PATTERN MEASUREMENTS					COMMENTS
Size	14W	18W	22W	26W	30W	
1. HPS Body Lgth	28 2/8	28 6/8	29 6/8	30 6/8	31 6/8	Base size - 1/2", Grading OK
2. Nk Width	9	9 2/8	9 4/8	9 6/8	10	Base size = OK, Grading OK
3. Ft Nk Drop	4 4/8	4 5/8	4 6/8	4 7/8	5	
4. Bk Nk Drop	1 6/8	1 7/8	2	2	2 1/8	Base size = OK, Grading OK
5. Across Shoulder	15	16	17	18	19	Base size = OK, Grading OK
6. Across Front	14 7/8	15 7/8	16 7/8	17 7/8	18 7/8	Base size - 1/8", Grading OK
7. Across Back	15	16	17	18	19	Base size = OK, Grading OK
8. Chest	23	25	27	29	31	Base size = OK, Grading OK

Browzwear Ruler Export example: Verify that pattern grading has been applied accurately to graded spec using Digital Software rulers. Internal lines must be set up on pattern to grade with pattern edges to be able to use for grading verification.

APPENDIX C (I) Pattern Piece Naming Conventions - Piece Abbreviations

Abbreviation	Full Name
BD	Band
BDG	Binding
BAG	Bag
BK*	Back <i>*Can be used as location abbreviation</i>
BL	Belt Loop
BLT	Belt
BTM	Bottom
BRA	Bra
CLR	Collar
CUFF	Cuff
FC	Facing
FRT*	Front <i>*Can be used as location abbreviation</i>
FLC	Flounce
FLY	Fly
FP	Flap
GST	Gusset
HD	Hood

Abbreviation	Full Name
LG	Leg
LNG	Lining
LNR	Liner
PKT	Pocket
PLKT	Placket
PNL	Panel
RFL	Ruffle
SKT	Skirt
SLV	Sleeve
STP	Strap
TIE	Tie
TRM	Trim
WB	Waistband
YK	Yoke
10x10	10"x10" pattern square that MUST be included with every pattern for checking scale

APPENDIX C (II) Pattern Piece Naming Conventions - Piece Abbreviations

Location Specific Piece Abbreviations:

Abbreviation	Full Name
WL	Wearer's Left - Add before piece name to differentiate WL from WR for symmetrical pieces in 3D file
WR	Wearer's Right - Add before piece name to differentiate WR from WL for symmetrical pieces in 3D file
AH	Armhole
CB	Center Back
CF	Center Front
CHST	Chest
EXT	Exterior
INT	Interior
LOW	Lower
NK	Neck
SHLDR	Shoulder
SS	Side Seam
SD	Side
WST	Waist
UP	Upper
UND	Under