



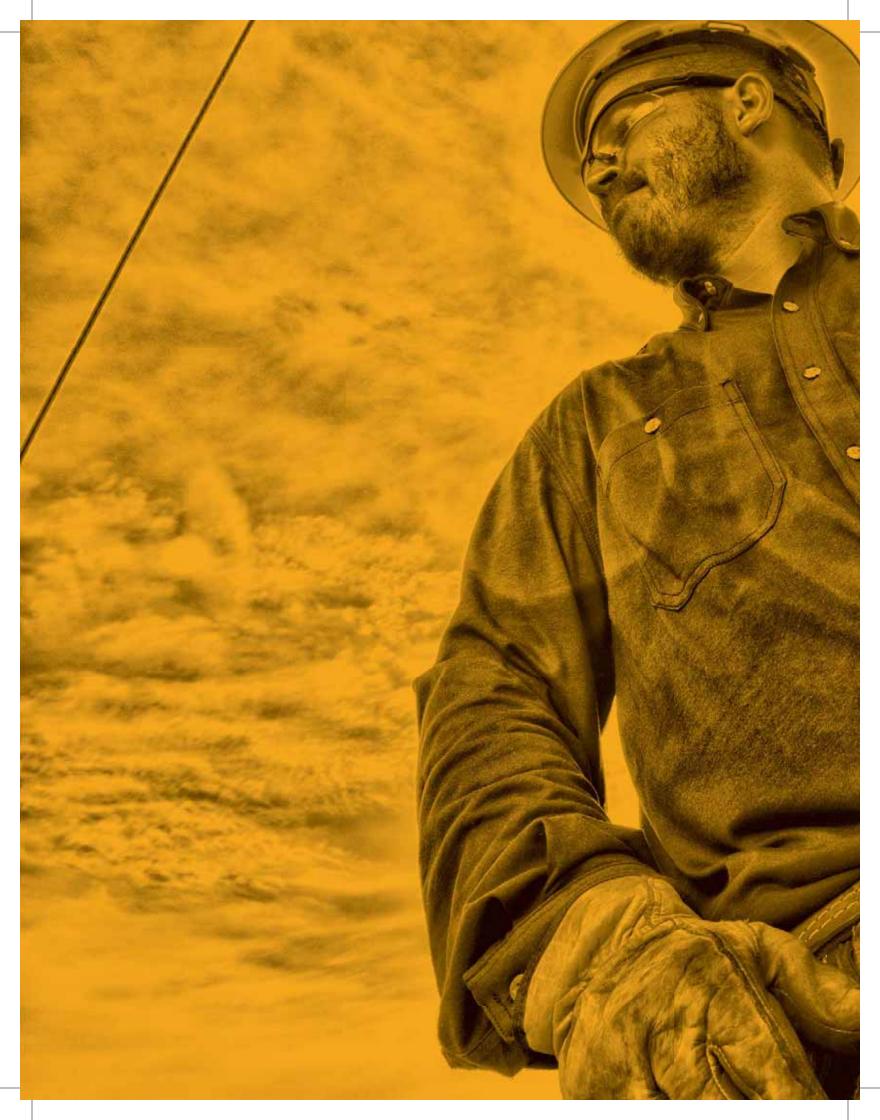


## STYLE NUMBER REFERENCE

Style #	Page #	Flame-Resistant	Big & Tall
FRA002	6	Flame-Resistant Midweight Canvas Hood / Quilt-Lined	1 7 1 2 2
FRA003	31	Flame-Resistant Double-Layer Force Balaclava	
FRA265	8	Flame-Resistant Duck Hood / Quilt-Lined	
FRB13	19	Flame-Resistant Signature Denim Dungaree	•
FRB004	19	Flame-Resistant Utility Jean — Relaxed Fit	•
FRB100	18	Flame-Resistant Signature Denim Jean — Relaxed Fit	•
FRB159	20	Flame-Resistant Midweight Canvas Pant — Loose Original Fit	•
FRB240	21	Flame-Resistant Canvas Cargo Pant	•
FRS003	26	Flame-Resistant Lightweight Twill Shirt	•
FRS160	26	Flame-Resistant Classic Twill Shirt	•
WFRB159	37	Women's Flame-Resistant Canvas Work Pant	
WFRS160	37	Women's Flame-Resistant Classic Twill Shirt	
100170	19	Flame-Resistant Utility Denim Double-Front Jean — Relaxed Fit	•
100234	23	Flame-Resistant Force Cotton Short-Sleeve T-Shirt	•
100235	23	Flame-Resistant Force Cotton Long-Sleeve T-Shirt	•
100237	22	Flame-Resistant Force Cotton Long-Sleeve Henley	•
100432	28	Flame-Resistant Canvas Shirt Jac	•
100445	17	Flame-Resistant Rainwear Bib Overall	•
100447	17	Flame-Resistant Rain Jacket	•
100783	14	Flame-Resistant Extremes® Arctic Parka	•
100784	15	Flame-Resistant Extremes® Arctic Coat	•
100785	15	Flame-Resistant Extremes® Arctic Biberall	•
100791	21	Flame-Resistant Washed Duck Work Dungaree	•
101017	16	Flame-Resistant Traditional Twill Coverall	•
101028	26	Flame-Resistant Classic Plaid Shirt	•
101029	7	Flame-Resistant Mock Neck Vest	•
101107	37	Women's Flame-Resistant Force Cotton Long-Sleeve T-Shirt	
101153	23	Flame-Resistant Force Cotton Graphic Long-Sleeve T-Shirt	•
101200	31	Flame-Resistant Hard Hat Liner	
101245	30	Flame-Resistant Base Force® Cold Weather Weight Top	•
101246	30	Flame-Resistant Base Force® Cold Weather Weight Bottom	•
101249	37	Women's Flame-Resistant Signature Denim Jean	
101392	15	Flame-Resistant Extremes® Arctic Hood	
101572	27	Flame-Resistant Snap-Front Shirt	•
101575	29	Flame-Resistant Portage Jacket	
101576	29	Flame-Resistant Force Rugged Flex® Quarter-Zip Fleece	•

## STYLE NUMBER REFERENCE

Style #	Page #	Flame-Resistant (continued)	Big & Tall
101577	29	Flame-Resistant Force Rugged Flex® Hooded Fleece	•
101578	31	Flame-Resistant Fleece Hat	
101580	31	Flame-Resistant Fleece Neck Gaiter	
101618	8	Flame-Resistant Duck Traditional Coat / Quilt-Lined	•
101621	9	Flame-Resistant Duck Active Jac / Quilt-Lined	•
101622	7	Flame-Resistant Midweight Canvas Active Jac / Quilt-Lined	•
101623	9	Flame-Resistant Duck Bomber Jacket / Quilt-Lined	•
101625	6	Flame-Resistant Lanyard Access Jacket / Quilt-Lined	•
101626	8	Flame-Resistant Duck Bib Overall / Quilt-Lined	•
101627	9	Flame-Resistant Duck Bib Overall / Unlined	•
101628	12	Flame-Resistant Striped Duck Bib Overall / Quilt-Lined	•
101629	36	Women's Flame-Resistant Midweight Canvas Active Jac	
101695	12	Flame-Resistant Striped Duck Traditional Coat / Quilt-Lined	•
101698	22	Flame-Resistant Force Cotton Hybrid Shirt	•
101699	23	Flame-Resistant Striped Force Cotton Long-Sleeve T-Shirt	•
101703	13	Flame-Resistant Striped Duck Bib Overall / Unlined	•
101705	13	Flame-Resistant Striped Coverall	•
101814	18	Flame-Resistant Rugged Flex® Jean — Straight Traditional Fit	•
102015	27	Flame-Resistant Snap Front Plaid Shirt	•
102150	16	Flame-Resistant Deluxe Coverall	•
102179	5	Flame-Resistant Full Swing® Quick Duck® Jacket	•
102182	4	Flame-Resistant Full Swing® Quick Duck® Coat	•
102183	5	Flame-Resistant Quick Duck® Hood	
102459	32	Women's Flame-Resistant Rugged Flex® Twill Shirt New Available July 2017	
102450	34	Women's Flame-Resistant Rugged Flex® Coverall New Available July 2017	
102682	28	Flame-Resistant Full Swing® Quick Duck® Shirt Jac New Available July 2017	•
102685	32	Women's Flame-Resistant Force Cotton Long-Sleeve Crew Neck T-Shirt New Available July 2017	
102686	32	Women's Flame-Resistant Force Cotton Long-Sleeve Henley New Available July 2017	
102687	32	Women's Flame-Resistant Force Cotton Hybrid Shirt New Available July 2017	
102688	33	Women's Flame-Resistant Rugged Flex® Jean — Original-Fit New Available July 2017	
102689	33	Women's Flame-Resistant Rugged Flex® Canvas Pant — Original-Fit New Available July 2017	
102691	4	Flame-Resistant Quick Duck® Bib Overall/Quilt-Lined <i>New Available July 2017</i>	a
102692	5	Flame-Resistant Full Swing® Quick Duck® Lanyard Access Jacket <i>New Available July 2017</i>	
102694	35	Women's Flame-Resistant Full Swing® Quick Duck® Jacket/Sherpa Lined	
102843	24	Flame-Resistant High-Visibility Force Hybrid Shirt New Available July 2017	
102905	24	Flame-Resistant High-Visibility Long-Sleeve T-Shirt—Class 3 New Available July 2017	•
		THE RESIDENCE OF THE PROPERTY	Print and the second participation of the second participa





# MOVES, BENDS, STRETCHES, AND AVOIDS GETTING BURNED

In 1889, Hamilton Carhartt began making clothes by studying those who toiled in the harshest conditions. Today, the commitment to understanding the workingman and woman's every move lives on in every stitch and seam of our Flame-Resistant Full Swing® gear. Engineered with the improved movability, flexibility, and safety requirements needed to keep up with the unapologetic demands of working in today's rugged corners.







102182

- Two chest pockets with flaps and snap closures
- Two lower-front pockets with snap closures
- Imported

Style #/Color 102182-410/Dark Navy 102182-211/Carhartt Brown

S	М	L	XL	2XL	3XL	4XL	5XL	
0	•	0	•		0	0		REGULAR
		0	0	0	0			TALL

Unlined	
CAT 2	NE'
ATPV (CAL/CM²) 9	AVAILA JULY 2
	CAT 2

### B FR Quick Duck® Bib Overall / Quilt Lined

102691

- Bib multi-pocket with zipper closure
- Multiple tool and utility pockets
- Chap-style double-front
- Ankle-to-above knee brass leg zippers
- Imported

Style #/Color 102691-410/Dark Navy 102691-211/Carhartt Brown

	W A	I S 1	Г										
	30	32	34	36	38	40	42	44	46	48	50	52	54
28		0	0			•	•				•		
30							•				•		0
30 32 34		0									•	0	
34		0											
36					0					0			



## FULL SWING® OUTERWEAR + FR

Carhartt FR Full Swing® Quick Duck® jackets and coats with Rain Defender® water repellent are built using 8.5-ounce, cotton/ nylon blend to be 20% lighter but just as warm as our heavier outerwear. Insulated with 150g 3M™ Thinsulate™ Platinum Insulation FR (102182, 102691, 102692). Stand-up collar (102182 and 102692) for an optional detachable hood [102183]. Plus, two inside patch pockets with FR hook-and-loop closures and an upper-arm pocket on the left sleeve.

















### FR Full Swing® Quick Duck® Jacket 102179

- 7-ounce, FR twill lining
- Left-chest map pocket with zipper closure
- Two lower-front pockets with zipper closures
- Imported

Style #/Color 102179-410/Dark Navy 102179-211/Carhartt Brown



**AVAILABLE** 

### FR Full Swing® Quick Duck® Lanyard **Access Jacket**

102692

- Harness D-ring access port with flap on center back (inset photo)
- · Left-chest map pocket with zipper closure
- Two lower-front pockets
- Imported

Style #/Color 102692-410/Dark Navy 102692-211/Carhartt Brown

S	М	L	XL	2XL	3XL	4XL	5XL	
•	•		•		0	0		REGU
		0	0	0	0			TALL



#### FR Quick Duck® Hood 102183

- Three-piece hood design for better fit
- Adjustable Nomex® FR drawcord with secure nylon draw-cord lock
- NFPA 70E compliant only
- Compatible to snap onto: 102182, 102692
- Imported

Style #/Color 102183-410/Dark Navy 102183-211/Carhartt Brown

ONE SIZE FITS ALL



## **FR CANVAS**

Midweight 8.5-ounce FR canvas built using 88% cotton/12% high-tenacity nylon. Brass front zipper with Nomex FR zipper tape plus inside and outside protective flaps with hook-and-loop closure for electric-arc protection. Two inside patch pockets with FR hook-and-loop closures.









## FR Lanyard Access Jacket / Quilt-Lined

101625

- Adjustable storm cuffs
- Lanyard access for safety harness
- Imported

Style #/Color 101625-410/Dark Navy 101625-211/Carhartt Brown

S	М	L	XL	2XL	ЗXL	4XL	5XL	l
•		•		•	0	0		
		0	0	0	0			l

REGULAR TALL



## FR Midweight Canvas Hood / Quilt-Lined

FRA002

- 8.5-ounce, FR canvas: 88% cotton/ 12% high-tenacity nylon + 8.75-ounce FR quilt lining: FR modacrylic batting
- Chin protector with FR hook-and-loop closure
- Adjustable Nomex® FR drawcord
- Arc-resistant snaps for attachment to FR outerwear only
- 2-ply construction for comfort and warmth
- NFPA 70E compliant only
- Compatible with:
- 101625 FR Lanyard Access Jacket
- Imported

Style #/Color FRA002-BRN/Carhartt Brown FRA002-DNY/Dark Navy

ONE SIZE FITS ALL





## FR Midweight Canvas Active Jac / Quilt-Lined 101622

- Attached quilt-lined hood with adjustable Nomex FR drawcord
- Nomex® rib-knit cuffs and waistband
- Imported

Style #/Color 101622-410/Dark Navy 101622-211/Carhartt Brown

ı	s	М	L	XL	2XL	ЗХГ	4XL	5XL	
	0			0	•	0	0		REGULA
			0	0	0	0			TALL



## D FR Mock Neck Vest

- FR sherpa lining Drop tail
- Imported

Style #/Color 101029-410/Dark Navy 101029-211/Carhartt Brown

	S	М	L	XL	2XL	3XL	4XL	5XL
ŀ	0	0	0	0	0	0	0	
			0	0	0			

REGULAR TALL

## FR DUCK OUTERWEAR

Heavyweight 13-ounce, 100% cotton FR duck with 11.5-ounce quilt lining: FR modacrylic batting quilted to FR twill face cloth. Two-way brass zipper with Nomex FR zipper tape plus inside and outside protective flaps with hook-and-ladder loop closure for electric-arc protection.





001











## FR Duck Traditional Coat / Quilt-Lined

101618

- Rib-knit storm cuffs
- FR inside-waist adjustable drawcord
- Two inside patch pockets with FR hook-and-loop closures
- Imported

Style #/Color 101618-211/Carhartt Brown 101618-410/Dark Navy 101618-001/Black

	s	М	L	XL	2XL	ЗХГ	4XL	5XL	
	0	•		•			0		REGULA
H S S S			0	0	0	0			TALL



### FR Duck Bib Overall / **Quilt-Lined**

- Chap-style double-front
- Multiple tool and utility pockets
- FR elastic suspenders and FR buckles
- Ankle-to-thigh brass leg zippers
- Imported

Style #/Color 101626-211/Carhartt Brown 101626-410/Dark Navy 101626-001/Black

	ī	30	32	34	36	38	40	42	44	46	48	50	52	54
	28			•	•	•			•	•	•			
	30		•	•	•	•			•	•	•		0	0
S E A	32		•	•	•	•	•		•	•	•	•	0	0
Z	34			•	•	•	•			•	•	•		
	36													



#### FR Duck Hood / Quilt-Lined FRA265

- Three-piece hood design for better fit
- · Chin protector with FR hook-andloop closure
- Adjustable Nomex® FR drawcord
- Arc-resistant snaps for attachment to FR outerwear only
- NFPA 70E compliant only
- Compatible with: 101618 FR Duck Traditional Coat 101623 FR Duck Bomber Jacket 101695 FR Striped Duck Traditional Coat
- Imported

Style #/Color FRA265-BRN/Carhartt Brown FRA265-DNY/Dark Navy FRA265-BLK/Black FRA265-RYL/Royal

ONE SIZE FITS ALL





## FR Duck Active Jac/ Quilt-Lined 101621

- Nomex® FR rib-knit cuffs and waistband
- Attached quilt-lined hood with Nomex FR drawcord
- Imported

Style #/Color 101621-211/Carhartt Brown 101621-410/Dark Navy 101621-001/Black

S	М	L	XL	2XL	зхг	4XL	5XL	
0	•				0	0		REGULAR
		0	0	0	0			TALL

## FR Duck Bomber Jacket/ Quilt-Lined 101623

- Nomex® FR rib-knit cuffs and waistband
- Imported

Style #/Color 101623-211/Carhartt Brown 101623-410/Dark Navy

	5XL	4XL	ЗХГ	2XL	XL	L	М	s
REGULAR		0	0	0	•	0	•	•
TALL			0	0	0	0		

## Flame-Resistant Duck Bib Overall / Unlined

101627

- Chap-style double-front
   Multiple tool and utility pockets
- FR elastic suspenders and FR buckles
- Ankle-to-above knee brass leg zippers
- Imported

Style #/Color 101627-211/Carhartt Brown 101627-410/Dark Navy 101627-001/Black

WAIST

		** ^	131											
		30	32	34	36	38	40	42	44	46	48	50	52	54
	28		•	0	0		•	•	•	0		•		
Σ	30	0				•	•			•	•	•	0	0
SEA	32		•			•	•	•	•	•	•	•	0	0
Z	34		•			•	•	•			•	•		
	36			0	0	0			0	0	0			



### FR STRIPED OUTERWEAR

Heavyweight, 13-ounce, 100% cotton FR duck with 11.5-ounce quilt lining: FR modacrylic batting quilted to FR twill face cloth. Brass front zipper with Nomex® FR zipper tape plus inside and outside protective flaps with snap hook-and-loop closure for electric-arc protection (Coat), and Nomex® FR rib-knit storm cuffs. Two inside patch pockets with FR hook-and-loop closures. Bibs include FR elastic suspenders and FR buckles. 13-ounce duck fabric is CGSB155.20-2000 certified. Yellow/Silver/Yellow 2-inch contrasting trim (RT80™ 220C N3000) with 3M™ Scotchlite™ reflective material (#9740) ANSI/NFPA 2112 approved reflective trim with 360° visibility around legs.



















101695

- Fleece-lined insulated stand-up collar with optional detachable FR hood (FRA265)
- Two large pockets with flaps and hook-and-loop closures
- Left pocket includes radio integration pass-through slot inside for mic
- Nomex® FR rib-knit storm cuffs
- Imported

Style #/Color 101695-001/Black 101695-434/Royal

â	s	М	L	XL	2XL	ЗХГ	4XL	5XL	
	0	0	0	•	•	0	0		REGULAR
			0	0	0	0			TALL

Lined	
CAT 4	
ATPV (CAL/CM²)	ATP

Unlined
CAT 2
ATPV (CAL/CM²) 16

## B FR Striped Duck Bib Overall / Quilt-Lined

101628

- Ankle-to-thigh brass leg zippers
- Chap-style double-front
- Multiple tool and utility pockets
- Imported

Style #/Color 101628-001/Black 101628-434/Royal

		W A	I S 1	Г										
		30	32	34	36	38	40	42	44	46	48	50	52	54
	28	•	•		•	•	•		•	•	0	0		
Σ	30				•	•		0			0	0	0	0
EA	30 32 34							0			0	0	0	0
N	34						•				0			
Ţ	36										0	0		







## C FR Striped Duck Bib Overall / Unlined

101703

- Ankle-to-above knee brass leg zippers
   Chap-style double-front
   Multiple tool and utility
- pockets
   Imported

Style #/Color 101703-001/Black 101703-434/Royal

WAIST

		30	32	34	36	38	40	42	44	46	48	50	52	54
	28		0		•	•				•	0			
Σ	30		0	•	•	•	•		•	•	0	•	0	0
EA	32		0		•	•				•	0		0	0
NS	34				•	•					0			
	36			0			0	0	0		0	0		



- Multiple tool and utility pockets
- Imported

Style #/Color 100705-434/Royal

CHEST

	60	58	56	54	52	50	48	46	44	42	40	38	36	34
SH	0	0	0	0	0	0	0	•		0	0	•	•	0
RE	0	0	0	0	0	0	0		0	0	0	•		0
TA		0	0	0	0	0	0		0	0	0	•		

HORT EGULAR

## FR EXTREMES® COATS/PARKAS

9-ounce FR canvas 88% cotton/12% high-tenacity nylon. Fully insulated with 3M™ Thinsulate™ 200g Platinum Insulation FR. Unique sherpa-lined interior back panel for increased warmth. Left shoulder utility band for mic clip, left chest pocket has a radio integration pass-through slot, and four generous interior pockets: two upper and two lower. Interior pockets include an ID patch, left sleeve upper arm pocket angled for ease of use, Nomex® inside-waist adjustable drawcord to keep the weather out, heavy duty two-way Vislon® zipper with Nomex® FR zipper tape, full-length interior/exterior storm flap and hook-and-loop closure, grip-friendly zipper-pull, and clip-friendly D-ring loops under pocket flaps. Bib includes double knees and two reinforced kick panels on both outside and inside lining of lower leg hems, and back waistband elastic for comfortable fit.

















100783

- Deep adjustable snorkel hood
- Removable inherent FR scruff
- Imported

Style #/Color 100783-410/Dark Navy

	5XL	4XL	3XL	2XL	XL	L	М	S	
REG		0	0	•					
TALI			0	0	0	0			

ULAR





## FR Extremes® Arctic Coat

100784

- Insulated stand-up collar
- Accessory hood available separately (101392)
   Imported

Style #/Color 100784-410/Dark Navy

S	М	L	XL	2XL	3XL	4XL	5XL
0		0		0	0	0	
		0	0	0	0		

REGULAR TALL

## FR Extremes® Biberall

- 100785
   Ankle-to-thigh zipper on each leg
  • Inside chest pocket
- Two reinforced back pockets
- İmported

Style #/Color 100785-410/Dark Navy



## FR Extremes® Arctic Hood

101392

- ID patch inside
- Inside warming pouch pockets over ears
- Imported

Style #/Color 100783-410/Dark Navy

ONE SIZE FITS ALL



## **FR TWILL COVERALLS**

The coveralls that cover a lot more than just your back out there. Built with two chest pockets with flaps and two pass-through pockets. Plus a left sleeve upper-arm pocket, and a brass front zipper with Nomex® FR zipper tape and inside and outside protective flap. Split-back construction with a pleated bi-swing back and triplestitched main seams throughout for durability.



250

033



### **FR Traditional Twill Coverall**

101017

- 9-ounce, FR twill: 100% cotton
- Spread collar
- · Utility band on left chest
- Utility pocket on right leg
- Leg openings fit over boots for easy on and off
- Imported

Style #/Color 101017-410/Dark Navy 101017-250/Khaki 101017-033/Gray

CHEST

ı	60	58	56	54	52	50	48	46	44	42	40	38	36	34
!	0	0	0	0	0					•	•			0
F	0	0	0	0	0	•	0	0	•	•		0	0	0
1		0	0					0		•	•			

SHORT REGULAR



### FR Deluxe Coverall

102150

- 7-ounce, FR twill: 88% cotton/ 12% nylon
- Stand-up collar with snap closure
- Two utility bands on chest
- Two side-entry pass through pockets with snap closures; multiple tool and utility pockets
- Ankle-to-above knee brass leg zippers with Nomex® FR zipper tape
- Imported

Style #/Color 102150-410/Dark Navy 102150-250/Khaki 102150-033/Gray

S	М	L	XL	2XL	3XL	4XL	5XL	
0			•	0	0	0		S
0			•	0	0	0		R
	0	0	0	0	0	0		T,

HORT REGULAR ALL



## **FR RAINWEAR**

12-ounce Nomex® IIIA fabric. FR neoprene sweat/ moisture barrier with 3M™ Scotchlite™ Reflective Material with two-inch reflective trim.







## FR Rain Jacket 100447

- Chemical splash resistant
- Attached hood and stowaway functionality
- Lanyard pass-through for safety harness compatibility
- Imported

Style #/Color 100447-827/Bold Orange

•	М	L	XL	2XL	3XL	4XL	5XL	
					0	0		REGULA
		0	0	0	0			TALL

## FR Rainwear Bib Overall

100445

- High back with FR elastic suspenders and FR centerrelease buckles
- Non-conductive leg zippers to knee
- Imported

Style #/Color 100445-827/Bold Orange

	s	М	L	XL	2XL	ЗХГ	4XL	5XL	
∑ 4 32			•		•	0	0		REGULA
S 34			0	0	0	0			TALL
HI HILE	11.	7.5						_	

## FR MEN'S DENIM JEANS

Regardless of fit, this soft yet durable denim more than fills the need for a trustworthy pair of FR jeans. Featuring an arc-resistant button closure at the waist and a brass zipper fly with Nomex® FR zipper tape.







### FR Rugged Flex® Jean — Straight Traditional Fit 101814

• 12.5-ounce, FR denim: 99% cotton/

- 1% spandex • Straight Traditional fit; sits slightly below the waist
- Two back pockets
- Imported

Style #/Color 101814-972/Deep Indigo Wash



## FR Signature Denim Jean — Relaxed Fit

FRB100

- 11.75-ounce, FR denim: 100% cotton
- Relaxed fit; sits above the waist
- Two reinforced back pockets
- Imported

Style #/Color FRB100-DNM/Denim

1		W A	151	Г													
		30	31	32	33	34	35	36	38	40	42	44	46	48	50	52	54
#	30						0	0	0			0	0			0	0
A	32				•	•				•	•	•				0	0
NSE	34				•	•				•	•	•	0				
-	36							0	0				0				





# FR MEN'S CANVAS WORKPANTS LOOSE ORIGINAL FIT

Workpants made from the toughest FR canvas known to Carhartt. Loose Original fit featuring an arc-resistant button closure at the waist and a brass zipper fly with Nomex® FR zipper tape.





BLK 001

MOS

246





- Midweight 8.5-ounce, FR canvas: 88% cotton/12% high-tenacity nylon
- Sits slightly above the waist
- Cell phone pocket and multiple utility pockets on right leg
  • Two reinforced back pockets
- Imported

Style #/Color FRB159-DNY/Dark Navy FRB159-GKH/Golden Khaki FRB159-MOS/Moss

WAIST

		30	31	32	33	34	35	36	38	40	42	44	46	48	50	52	54
_	30	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
A	32			0	0		0	0		0	0	0		0	•	0	0
N S E	34	0		0	0		0	0		0	0	0	0	0			
=	36	0	0	0	0	0		0	0	0	0	0	0				







## B FR Canvas Cargo Pant

FRB240

- Midweight 8.5-ounce, FR canvas: 88% cotton/12% high-tenacity nylon
- Sits slightly above the waist
- Two large side cargo pockets with pen slots
- Two reinforced back pockets
- Imported

Style #/Color FRB240-DNY/Dark Navy FRB240-GKH/Golden Khaki FRB240-BLK/Black

WAIST

	30	31	32	33	34	35	36	38	40	42	44	46	48	50	52	5
30				•		0	•	0	0	•	0					
32			•	•		0	•	0	0	•	0		•	•	0	0
34		0	•	•		0	•	0	0	•	0					
36					0			0								

CAT 2 ATPV (CAL/CM²) 15

# FR Washed Duck Work Dungaree 100791

- 11-ounce, FR duck: 88% cotton/ 12% high-tenacity nylon.
- Sits at the waist
   Left leg utility band
   Imported

Style #/Color 100791-001/Black 100791-246/Mid Brown 100791-410/Dark Navy

WAIST

	30	31	32	33	34	35	36	38	40	42	44	46	48	50	52	54
30				0	•	•			0	•	•	•			0	0
∑ ∢ 32			•					0				•	0	0	0	0
S 34				0	•	•	•		0	•	•	•				
<b>=</b> 36			0	0				0	0							

## DOES ITS BEST WORK AGAINST SWEAT, ODORS AND FLAME

Up to code and our highest standards for durability and performance. Flame-Resistant Carhartt Force® combines over 127 years of hands-on experience with the hands down toughest tech we ever fit in a

T-shirt. Built with FastDry® sweat-wicking technology and the ability to trap and release odors in the wash makes it the hardest working FR shirt to ever walk on the job site.



### FR Force Cotton Hybrid Shirt

- Original fit
- Button-down collar with button closure
- Two chest pockets with button closure
- Triple-stitched main seams
- Imported

Style #/Color 101698-410/Dark Navy 101698-051/Light Gray 101698-250/Khaki 101698-465/Medium Blue

S	М	L	XL	2XL	зхг	4XL	5XL	
•	•	•		•	0	0		R
	0	0	0	0	0	0		T.

REGULAR TALL



### B FR Force Cotton Long-Sleeve Henley

- Rib-knit henley collar and cuffs
- Durable left-chest pocket
- Imported

Style #/Color 100237-410/Dark Navy 100237-051/Light Gray 100237-250/Khaki 100237-465/Medium Blue

	5XL	4XL	ЗХL	2XL	XL	L	М	s
RE		0	0	•	•			0
TA			0	0	0	0	0	

REGULAR TALL



# FR FORCE KNITS ORIGINAL FIT

Long-lasting, heavyweight 6.75-ounce, 100% cotton FR jersey knit. Carhartt Force® fights odors and its FastDry® technology wicks away sweat for comfort. Side-seamed construction minimizes twisting and maximizes comfort while you're on the job. Durable left-chest pocket.





410

051

250

465



CAT 2
ATPV (CAL/CM²)

#### FR Force Cotton Short-Sleeve T-Shirt 100234

- Rib-knit crewneck collar
- Imported

Style #/Color 100234-410/Dark Navy 100234-051/Light Gray

S	М	L	XL	2XL	3XL	4XL	5XL
			•		0	0	
	0	0	0	0	0		

REGULAR

TALL

CAT 2
ATPV (CAL/CM²)
8.9

### PR Force Cotton Long-Sleeve T-Shirt 100235

- Rib-knit crewneck collar and cuffs
- Imported

Style #/Color 100235-410/Dark Navy 100235-051/Light Gray 100235-250/Khaki 100235-465/Medium Blue

S	М	L	XL	2XL	3XL	4XL	5XL	
•	•				0	0		REGULAR
	0	0	0	0	0			TALL

ATPV (CAL/CM<sup>2</sup> 8.9

### FR Striped Force Cotton Long-Sleeve T-Shirt 101699

- Rib-knit henley collar and cuffs
- Imported

Style #/Color 101699-051/Light Gray 101699-410/Dark Navy

s	М	L	XL	2XL	ЗХГ	4XL	5XL	
				•	0	•		R
	0	0	0	0	0			T

REGULAR TALL

CAT 2
TPV (CAL/CM²)
0.5

## F FR Force Cotton Graphic Long-Sleeve T-Shirt

101153

- Rib-knit crewneck and cuffs
- Flame-resistant graphic down left sleeve
- Imported

Style #/Color 101153-410/Dark Navy 101153-051/Light Gray

s	М	L	XL	2XL	3XL	4XL	5XL	
	•		•	•	0	0		REGULAR
	0	0	0	0	0			TALL
	1000				1111-	1500	W4211	

### FR FORCE HIGH-VISIBILITY KNITS **ORIGINAL FIT**

Long-lasting, 6.75-ounce, piqué knit: 48% modacrylic/37% lyocell/15% aramid. FastDry® technology wicks away sweat for comfort while Stain Breaker® technology releases stains. Features dark navy color-blocking in high wear areas to hide dirt and 3M™ Scotchlite™ Reflective Material. Plus side-seamed construction to minimize twisting and maximize comfort on the job.







Style #/Color 102905-323/Brite Lime

s	М	L	XL	2XL	3XL	4XL	5XL	
	•	0	•	•	0	0		REGULAR
	0	0	0	0	0			TALL



AVAILABLE JULY 2017

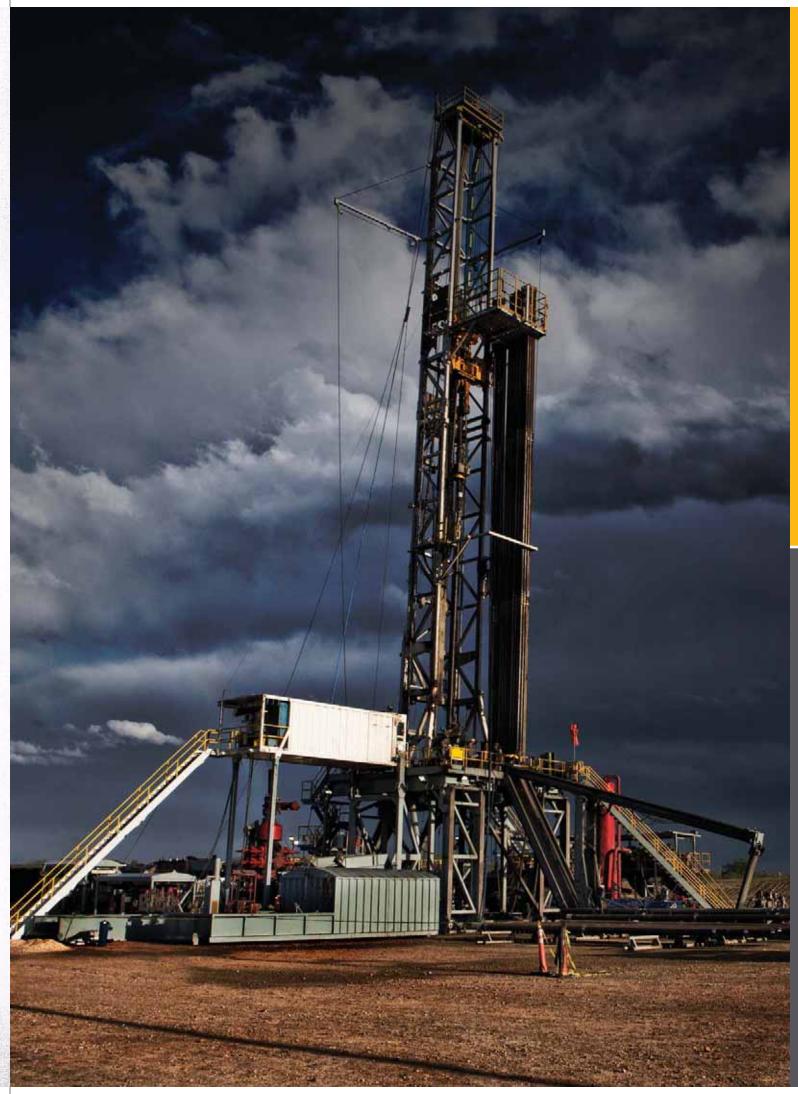
- FR High-Visibility Force Hybrid Shirt 102843
  - FR melamine buttons throughout
  - Two chest pockets with button closure
  - Extended sleeve plackets with two-button adjustable cuffs
  - Triple-stitched main seams
  - Imported
  - Style #/Color

102843-323/Brite Lime

i	s	М	L	XL	2XL	ЗХГ	4XL	5XL
ĺ				•	•		0	
		0	0	0	0	0	0	

REGULAR





## SAFE THAT'S **ANYTHING BUT SORRY**

### FR WOVEN BUTTON-DOWN **ORIGINAL FIT**

Button-down collar with button closure and FR melamine buttons throughout. Two chest pockets with flaps and button closures. Extended sleeve plackets with two-button adjustable cuffs. Triple-stitched main seams for durability.



RYL

608

629







- 7-ounce, FR twill: 88% cotton/ 12% high-tenacity nylon
- Imported

Style #/Color FRS160-KHI/Khaki FRS160-DNY/Dark Navy FRS160-GRY/Gray FRS160-MBL/Medium Blue FRS160-608/Dark Crimson

s	М	L	XL	2XL	ЗХГ	4XL	5XL	
0	0	•		•	0	0		RE
	0	0	0	0	0	0		TA

EGULAR



### FR Lightweight Twill Shirt FRS003

- 6-ounce, FR twill: 88% cotton/ 12% high-tenacity nylon
- Imported

Style #/Color FRS003-KHI/Khaki FRS003-DNY/Dark Navy FRS003-GRY/Gray FRS003-465/Medium Blue FRS003-RYL/Royal FRS003-629/H Red

	5XL	4XL	ЗXL	2XL	XL	L	М	s
REGUL		0	0	•		0	0	
TALL		0	0	0	0	0	0	

LAR



### FR Classic Plaid Shirt 101028

- 6.5-ounce, FR twill: 88% cotton/ 12% high-tenacity nylon
- Imported

Style #/Color 101028-316/Moss 101028-412/Navy 101028-245/Mid Brown/Navy 101028-033/Gray 101028-932/Dark Crimson/Black 101028-264/Golden Khaki 101028-608/Dark Crimson

s	М	L	XL	2XL	ЗХГ	4XL	5XL	
	•			•	0	0		REGULAR
	0	0	0	0	0	0		TALL



### FR WOVEN SNAP FRONT **ORIGINAL FIT**

Snap-front closure. Spread collar with extended sleeve plackets and three-snap cuffs. Triple-stitched main seams for durability.



## 101572

- 7.5-ounce, FR twill: 100% cotton
- Imported

Style #/Color 101572-250/Khaki 101572-410/Dark Navy

	5XL	4XL	3XL	2XL	XL	L	М	s
REGULAR		0	0	0		0	•	0
TALL		0	0	0	0	0	0	

## FR Snap-Front Plaid Shirt

- 6.5-ounce, FR twill: 88% cotton/ 12% high-tenacity nylon
- Imported

Style #/Color 102015-412/Navy 102015-316/Moss

s	М	L	XL	2XL	ЗХГ	4XL	5XL	
	•		•	•		0		REGULAR
	0	0	0	0	0	0		TALL



## **FR CANVAS SHIRTS**

8.5-ounce, FR canvas: 88% cotton/12% high-tenacity nylon. Snap front. Two chest pockets.

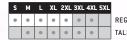






- Original fit
- 7-ounce, FR twill lining
- Imported

Style #/Color 100432-201/Dark Brown 100432-001/Black 100432-316/Moss





AVAILABLE JULY 2017

## FR Full Swing® Quick Duck® Shirt Jac

102682

- 8.5-ounce, FR canvas
- Rain Defender® durable water repellent
- Mighty Back™ bi-swing between shoulders for instant recovery
- Flex Elbow™ for less restriction
- Two inside pockets
- Utility band at left chest
- Two lower-front welt pockets
   Adjustable, two-snap cuffs
- Triple-stitched main seams for durability
- Locker loop facilitates hanging

Style #/Color 102682-410/Dark Navy

s	М	L	XL	2XL	3XL	4XL	5XL	
0	•	0	•	•	0	0		REGULAR
	0	0	0	0	0	0		TALL



FR FORCE®
RUGGED FLEX® FLEECE
RELAXED FIT

Warm 12.5-ounce, FR fleece: 95% cotton/ 5% spandex. Featuring both the benefits of Force® and the extra stretch and added ease of movement of Rugged Flex® technology.









### FR Force Rugged Flex® Quarter-Zip Fleece

101576

- Mock-neck collar with quarter-zip Vislon® front zipper and Nomex® FR zipper tape
- Front hand-warmer pocket
- Imported

Style #/Color 101576-410/Dark Navy

S	М	L	XL	2XL	ЗХГ	4XL	5XL	
	•	0			0	0	0	REGULAR
	0	0	0	0		0		TALL





### PR Force Rugged Flex® Hooded Fleece

101577

- Attached three-piece hood with adjustable FR drawcord
- Vislon® front zipper with Nomex® FR zipper tape
- Two front hand-warmer pockets
- Map pocket on left side
- Imported

Style #/Color 101577-410/Dark Navy

s	М	L	XL	2XL	3XL	4XL	5XL	
	•	0		•	0	0	0	REGULAI
	0	0	0	0	0	0		TALL



## FR Portage Jacket

- 10.5-ounce, FR Polarec® Wind Pro® fleece: 44% viscose/ 39% modacrylic/14% para-aramid/ 3% spandex.
- Rain Defender® durable waterrepellent finish
- Two lower-front welt pockets
- Imported

Style #/Color 101575-410/Dark Navy

	5XL	4XL	ЗХГ	2XL	XL	L	М	s	
RE		0	0	•	•	•			
TA			0	0	0	0			

REGULAR



FLAMES CAN'T HOLD A CANDLE

TO THESE FR













• Relaxed fit

- 7.4-ounce, FR knit: 50% cotton/24% modal/24% supima/2% spandex.
- Fights odors and wicks sweat for warmth and comfort
- Self fabric crewneck and cuffs
- Imported

Style #/Color 100234-410/Dark Navy

s	М	L	XL	2XL	ЗXL	4XL	5XL	
	•		•		0	0		REGULAR
		0	0	0				TALL







• 7.4-ounce, FR knit: 50% cotton/24% modal/24% supima/2% spandex.

- Fights odors and wicks sweat for warmth and comfort
- NFPA 70E compliant only
- Imported

Style #/Color 101246-410/Dark Navy

s	М	L	XL	2XL	ЗХL	4XL	5XL	
	•			•	0	0		REGULAR
		0	0	0				TALL

Complement your Carhartt FR gear with the rugged hats, liners, hoods, and base layer gear built to match.



## **FR ACCESSORIES**





### FR Hard Hat Liner

101200

- 9-ounce, FR twill: 100% cotton + 11.7-ounce FR Polarec® Power Stretch® fabric lining: 68% modacrylic/29% rayon/3% spandex
- Face mask pulls up over the nose
- Lower-front crossover closure keeps out wind and protects the neck
- Inside warming pouch pocket over ears
- Imported

Style #/Color 101200-410/Dark Navy

ONE SIZE FITS ALL





## FR Double-Layer Force Balaclava

FRA003

- 6-ounce, 2 ply FR knit: 48% modacrylic/ 48% Tencel®/4% spandex
- Full facial protection extends below the neckline
- Face mask pulls down below chin when not needed
- Imported

Style #/Color FRA003-DNY/Dark Navy FRA003-BLK/Black

ONE SIZE FITS ALL





### FR Fleece Hat 101578

- 10.5-ounce, FR Polarec® Wind Pro® fleece: 44% viscose/39% modacrylic/ 14% para-aramid/3% spandex
- High warmth-to-weight ratio while being highly windresistant and breathable
- Fits well under a hard hat
- Imported

Style #/Color 101578-410/Dark Navy

ONE SIZE FITS ALL



### FR Fleece Neck Gaiter 101580

• 10.5-ounce, FR Polarec® Wind Pro® fleece: 44% viscose/ 39% modacrylic/14% para-aramid/3% spandex.

D

- High warmth-to-weight ratio that's highly wind-resistant and breathable
- Imported

Style #/Color 101580-410/Dark Navy

ONE SIZE FITS ALL





## **WOMEN'S FR: REMADE** FOR THE DEMANDS OF HER EVERY DAY

From fit to function, Carhartt Women's FR gear has been redesigned to better serve the #CarharttWoman that wears it. Every stitch and seam of this FR gear is engineered with the Carhartt Woman's every move in mind. Equipped with the latest innovations and technologies including Full Swing® for increased mobility, Rugged Flex® for added stretch and recovery, plus the odor-fighting, sweat-wicking powers of Carhartt Force.® Because heat and flames don't take it any easier on a woman. Neither does this gear.

## **KEEPS YOU COOL AND STILL PACKS HEAT**

The hotter it gets, the harder these shirts work. Because Women's FR Force® gear combines over 127 years of hands-on experience with the hands down toughest tech we ever fit in a shirt. Featuring FastDry® sweat-wicking technology, plus odorfighting abilities, so you don't have to worry about anything getting in your way of work.





465

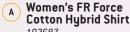
417











102687

- 6.75-ounce, 100% cotton jersey
- · Slightly fitted
- Mesh side panel extends to back yoke
- Triple-stitched main seams for durability
- Imported

Style #/Color 102687-250/Khaki 102687-410/Dark Navu 102687-465/Medium Blue







### Women's FR Rugged Flex® Twill Shirt

102459

- 7-ounce FR twill: 87% cotton/ 7% high-tenacity nylon/ 5% polyester/1% spandex
- Relaxed fit
- Button-down collar
- Adjustable cuffs with button closure
- Triple-stitched main seams for durability
- · Imported

Stule #/Color 102459-410/Dark Navy 102459-250/Khaki









### Women's FR Force **Cotton Long-Sleeve** Crewneck T-Shirt

102685

- 6.75-ounce, 100% cotton jersey
- · Slightly fitted
- · Rib-knit crewneck collar and cuffs
- Drop tail adds coverage
- Imported

Style #/Color 102685-410/Dark Navy 102685-250/Khaki







### Women's FR Force Cotton Long-Sleeve Henley

102686

- 6.75-ounce, 100% cotton jersey
- Slightly fitted
- · Rib-knit Henley collar and cuffs
- Drop tail adds coverage
- Imported

Style #/Color 102686-410/Dark Navy





ATPV (CAL/CM²)

NEW AVAILABLE JULY 2017

### Women's FR Rugged Flex® Canvas Pant — Original Fit 102689

- 9-ounce, FR canvas: 98% cotton/2% spandex
- Mid-front rise, sits just below the waist
- Higher back for added coverage
- Two reinforced back pockets
   Leg openings fit over work boots
- Imported

Style #/Color 102689-410/Dark Navy 102689-264/Golden Khaki



NEW AVAILABLE JULY 2017

## Women's FR Rugged Flex® Jean — Original Fit 102688

- 11-ounce, 69% cotton/30% modacrylic/1% elastic
- Mid-front rise; sits just below the waist
- Higher back rise for added coverage
- Imported

Style #/Color 102688-417/Premium Dark

		2	4	6	8	10	12	14	16	18	20
A	SHORT 30								0		
INSEA	REGULAR 32	0	0	•				0	0	0	0
Z	TALL 34			•		0	0	0	0		





### **WOMEN'S FR RUGGED FLEX® RELAXED FIT**

7-ounce, FR twill: 87% cotton/7% high-tenacity nylon/ 5% polyester/1% spandex. Rugged Flex® durable stretch technology for ease of movement.













## New Women's FR Rugged Flex® Coverall

- Two side-entry pass through pockets with snap closures
   Right-side tool and utility pocket
- Left-sleeve upper arm pocket
- Imported

Style #/Color 102450-410/Dark Navy

		XS	S	М	L	XL	XXL
Σ	SHORT 30		0	•	0	•	
INSEAM	REGULAR 32	0	0	•	0		•
_	TALL 34		0	•	0		

# **WOMEN'S FR FULL SWING®** QUICK DUCK® OUTERWEAR 8.5-ounce, FR canvas: 88% cotton/12% high-tenacity nylon

with Rain Defender® durable water repellent. Sherpa lining in body. Quick Duck® fabric is 20% lighter but just as warm as heavier outerwear, Insulated with 150g 3M™ Thinsulate™ Platinum Insulation FR. Attached hoods with adjustable Nomex® drawcord plus two inside patch pockets with FR hook-and-loop closures.





















AVAILABLE JULY 2017

- Women's FR Full Swing® Quick Duck® Jacket / Sherpa Lined 102694
  - Mighty Back™ bi-swing between shoulders for instant recovery
  - Flex Elbow™ for less restriction
  - Freedom Gusset™ under the arms
  - Rain Defender® durable water repellent
  - Two lower-front pockets with zipper closure
  - Imported

Style #/Color 102000-410/Dark Navy 102694-211/Carhartt Brown



# **WOMEN'S FR BASICS**

The hardworking, comfortable FR basics you need for a long day on the job. Cut to fit you, not the rest of the guys on your crew.









# Women's FR Midweight Canvas Active Jac

101629

- 8.5-ounce FR quilt lining: FR modacrylic batting quilted to twill face cloth
- Quilt-lined hood
- Brass front zipper with Nomex® FR zipper tape plus inside and outside protective flaps with snap closure for electric-arc protection
- Imported

Style #/Color 101629-410/Dark Navy 101629-211/Carhartt Brown







# Women's FR Force Cotton Long-Sleeve T-Shirt

#### 101107

- 6.75 ounce knit: 100% cotton FR jersey knit
- Relaxed fit
- Carhartt Force® fights odors and its FastDry® technology wicks away sweat for comfort
- Rib-knit crewneck collar
- Imported

Style #/Color 101107-410/Dark Navy 101107-051/Light Gray





# Women's FR Signature Denim Jean

101249

- 11.75-ounce, FR denim: 100% cotton
- Relaxed fit/relaxed fitting seat and thigh
- Triple-stitched main seams for durability
- Imported

Style #/Color 101249-407/Denim

		2	4	6	8	10	12	14	16	18	20
_	28		0			•	•	0			•
E A M	30	0	0	0		•	•	0	0	0	•
I N S	32	0	0	0		•	•	0	0		•
_	34			0		•	•	0	0		



#### Women's FR Classic Twill Shirt

WFRS160

- 7-ounce, FR twill: 88% cotton/ 12% high-tenacity nylon
- Original Fit
- Button-down collar
- FR melamine buttons
- Two chest pockets with flaps and button closures
- Triple-stitched main seams for durability
  • Shaped shirttail hem
- Imported

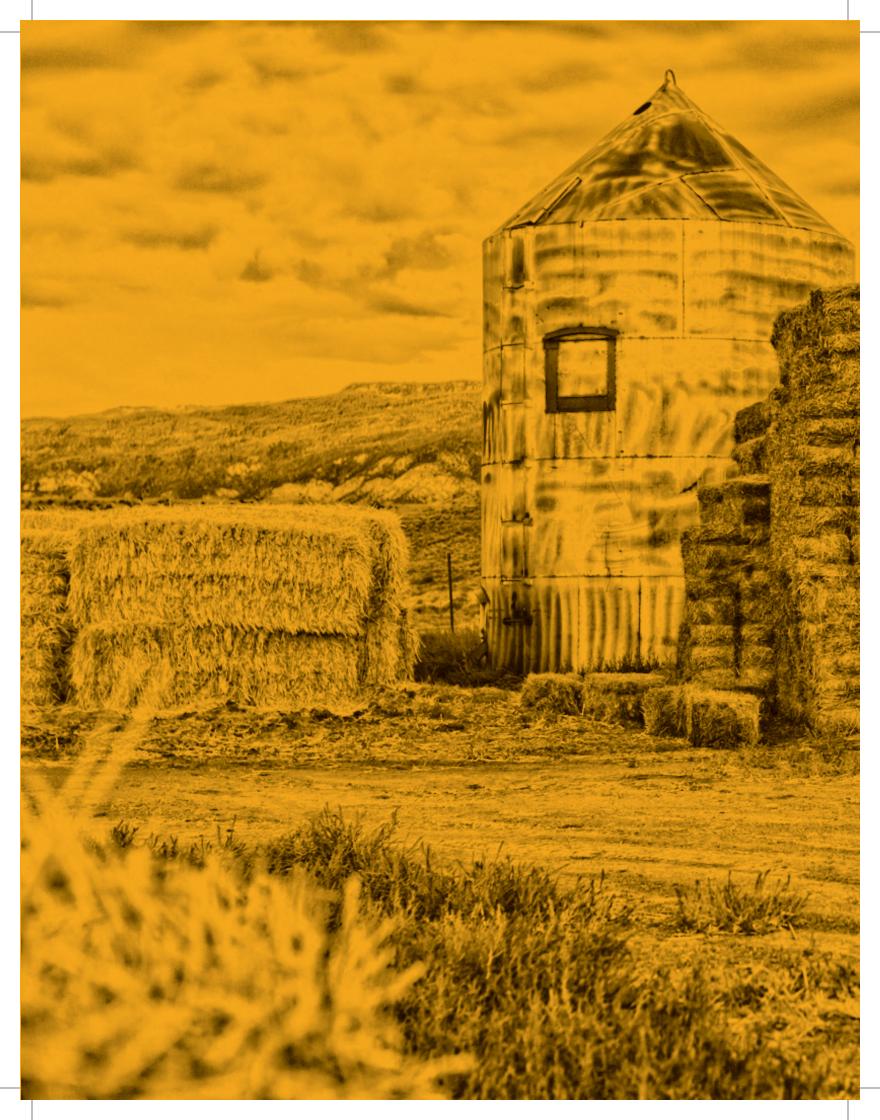
Style #/Color WFRS160-DNY/Dark Navy WFRS160-KHI/Khaki

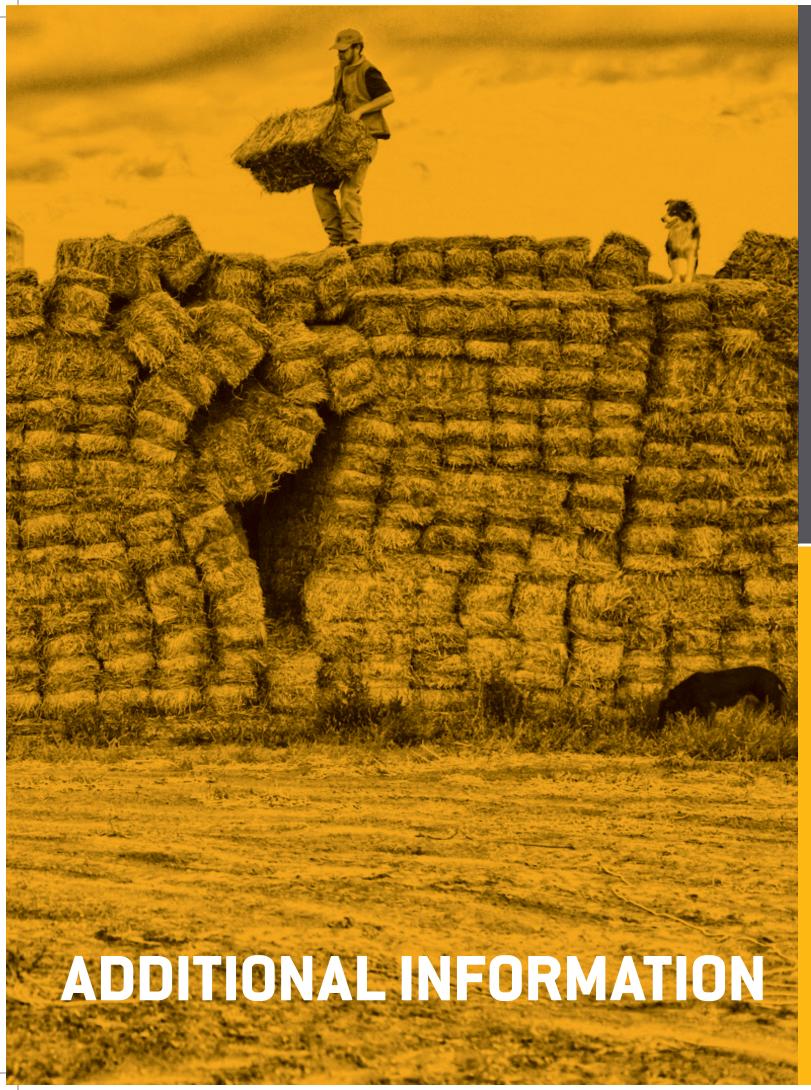




WFRB159-DNY/Dark Navy WFRB159-GKH/Golden Khaki

		2	4	6	8	10	12	14	16	18	20
_	28		•	0	0	•	•	•	•	0	
E A M	30	0	•	0	0		•	•	•	0	0
NSE	32	0		0					•		
-	34			0					•		







### FR SAFETY REGULATIONS



### **OSHA General Duty Clause**

 Employers are required to provide their employees with a place of employment that is free from recognizable hazards that are causing or likely to cause death or serious harm to employees.

#### OSHA 1910.269

- Federal regulation that defines the safety practices of employees working in the generation, transmission and distribution of electricitu.
- Prohibits clothing that, when exposed to flames or arcs, could increase the extent of wearer injury. Employers must determine appropriate clothing based on an evaluation of potential hazards in the work environment. Clothing made from flame-resistant materials is acceptable under the Rule; i.e., clothing that meets the requirements of ASTM F1506.
- The employer shall ensure that each employee exposed to potential hazards from electric arcs wears protective clothing and other protective equipment with an arc rating greater than or equal to the heat energy estimate whenever that estimate exceeds the heat energy of 2.0 cal/cm<sup>2</sup>
- The 2014 revision to the regulation requires that as of April 1, 2015, employers must provide protective equipment sufficient to cover the employee's entire body.
- Acceptable FR clothing shall conform to the requirements of ASTM F-1506, and must have an appropriate arc rating (Arc Thermal Performance Value [ATPV], or Breakopen Threshold Energy [EBT].
   The arc rated clothing must be rated at or above the potential hazard from an arc flash exposure.



### **National Electric Safety Code**

- National Electrical Safety Code (NESC) sets rules for safeguarding personnel during installation, operation, or maintenance of electric supply and communication lines and associated equipment.
- States that employers must conduct a hazard analysis to determine the potential arc exposure for employees working on or near energized equipment. Arc rated clothing required if exposure is greater than 2 cal/cm<sup>2</sup>



### Standard for electrical safety in the workplace

- The 70E standard addresses electrical hazards in the workplace and supplements the NESC by focusing on protecting the worker from electrical hazards. The objective of this standard is to provide protection to workers based on the potential electrical exposure energy to which they could be exposed. 70E mandates that employers conduct a hazard risk assessment to determine the potential arc exposure for employees who work on or near energized parts or equipment.
- NFPA 70E requires that employees wear proper arc-rated Flame Resistant (FR) clothing whenever there is possible exposure to an arc flash event sufficient to cause a second degree burn. Such FR protective clothing must be rated for protection from electric arcs so they can be properly matched to the appropriate hazard levels. This arc rating, or ATPV, appears on the labeling of all FR protective apparel for easy referencing. Matching the arc rating of the Flame Resistant apparel with the hazard rating maximizes worker protection against the chance of burn injury or death.



### Standard on flame-resistant garments for protection of industrial personnel against flash fire

 NFPA 2112 standard provides minimum requirements for the design, construction, evaluation and certification of flame resistant (FR) clothing for use by industrial personnel exposed to potential flash fire situations. It does not attempt to provide any guidance on matching the PPE to the quantified hazards — that is what NFPA 2113 is designed for.



#### Standard on the fundamentals of combustible dust

 NFPA 652 standard provides the general requirements for managing combustible dust fire and explosion hazards.
 It states that when FR clothing is required, it must comply with the requirements of NFPA 2112 and be selected, procured, inspected, worn, and maintained in accordance with NFPA 2113.



# Standard on selection, care, use, and maintenance of flame-resistant garments for protection of industrial personnel against flash fire

 Provides minimum requirements for the selection, care, use, and maintenance of Flame Resistant garments compliant with NFPA 2112 for use in potential flash fire situations. This standard reduces the potential risks caused by incorrect maintenance, contamination, or damage to FR clothing.



### American National Standard for high-visibility safety apparel and accessories

ANSI/ISEA 107 provides performance requirements for conspicuous materials to be used in high-visibility safety apparel (HVSA) and specifies minimum amounts of background, retroreflective and combined-performance materials. The 2015 edition continues to present three performance classes of garments based on the amount of visible materials and design

attributes incorporated into the final garment configuration. The standard now identifies garment types based on expected use settings and work activities being performed. These are designated as off-road (type 0), roadway and temporary traffic control (type R), or public safety activities (type P).

### **FREQUENTLY ASKED QUESTIONS**

Who is Carhartt Flame-Resistant (FR) clothing designed for?

Carhartt FR Clothing is designed for electricians and workers in the utility, oil, gas and petrochemical fields who are at risk of exposure to electric arc flashes and flash fires, which could cause severe or fatal burn injuries. Typical candidates for FR clothing include electric linemen, pipeline and refinery workers, as well as industrial electricians.

- How does Carhartt FR clothing help protect against burn injury?

  Through the use of flame-resistant chemicals or fabric blends, Carhartt FR Clothing is designed to self-extinguish within seconds after the source of ignition is removed, limiting the degree of burn and body burn percentage. It is not designed to be flameproof; it is flame-resistant.
- Can the flame-resistant chemicals be washed out?

  No. Carhartt FR Clothing is guaranteed to be flame-resistant for the useful life of the garment regardless of the number of launderings, provided garment-care instructions are followed.
- How can Carhartt FR clothing be distinguished from traditional Carhartt clothing?

  Carhartt FR Clothing is clearly identified with a "FR Carhartt" patch in place of the traditional Carhartt patch. Product hang tags and HRC labels also help distinguish Carhartt flame-resistant products.
- What is a PPE category?

  A PPE category is a rating for FR clothing based on the ATPV rating that indicates the level of protection the garment provides. There are four PPE categories ranging from 1 to 4, with a PPE category of 1 representing the least protection, and a PPE category of 4 representing the most protection. The NFPA 70E consensus standard assigns these categories based on the electrical maintenance tasks to be performed, and each PPE category relates to a specific range of ATPV's. For example, PPE category 2 would include ATPVs greater or equal to 8 cal/cm<sup>2</sup>, but less than 25 cal/cm<sup>2</sup>.
- What is an ATPV?

  An Arc Thermal Performance Value (ATPV) is a rating assigned to flame-resistant clothing indicating the level of electrical arc flash protection provided. Higher-weight (e.g., thicker, denser) fabrics typically have higher ATPVs and provide increased protection (as does the layering of FR clothing). All Carhartt FR Clothing has the ATPV marked on the inside label for easy reference.
- What is EBT?

  Like ATPV, Breakopen Threshold Energy (EBT) is a rating assigned to FRC indicating the level of protection provided.

  EBT is used when ATPV cannot be measured due to flame-resistant fabric breakopen. EBT is also measured in calories per centimeter squared (cal/cm²).
- Can Carhartt FR clothing be repaired?

  Yes, Carhartt FR Clothing can be repaired, but repairs must be made with fabrics and sewing threads that have at least the same FR characteristics as the original garment.
- Is flame-resistant thread required for embroidery applications?

  None of the current regulations governing the use of flame-resistant clothing specifically require the use of flame-resistant thread for embroidery applications. However, Carhartt recommends using flame-resistant thread for embroidery or emblem attachment.
- Can I use DEET on flame-resistant clothing?

  No. DEET is one of the most effective mosquito repellents on the market, but it should only be used on the skin, never on FR clothing. For the most effective mosquito and tick protection, use DEET-based repellents on the skin (especially on exposed skin) and use a permethrin (the active ingredient in most lice shampoos) product washed into or applied to flame-resistant clothing. These products do not add any appreciable flammability to FR clothing and therefore do not affect its flame-resistant properties. When using permethrin in a spray form, use the WATER-BASED formulas only. Propellants are almost always flammable in this application, so the powder form washed into the clothing or the WATER-BASED spray formula is recommended.



# PROPER CARE

Follow the manufacturer care instructions located on the inside tag of each FR garment, and these guidelines when home laundering your Carhartt FR:

- Wash garment with normal laundry detergent separately from non-FR garments in coldwarm water
- DO NOT use bleach (or detergents containing bleach/hydrogen peroxide)
- · DO NOT use stain remover
- · DO NOT use starch
- DO NOT use fabric softener/dryer sheets

## **PROPER USE**

Follow **your company's** safety requirements to determine the standards and calorie rating your garment must meet when working in hazardous areas.

- Carhartt recommends flame resistant clothing be worn as base layers under FR garments
- Garments should have a reasonable fit with no modifications that will reduce its effectiveness
- Prevent additional exposure to skin (keep garments buttoned and sleeves rolled down)
- Keep shirts tucked in when in a hazardous area
- Do not apply DEET to FR clothing
   DEET IS FLAMMABLE

# USEFUL LIFE & REPAIRS

Regularly inspect your FR garments. Replace garments once they are past their useful life:

- · Torn/ripped fabric
- · Open seams/holes
- Fabric is frayed or threadbare
- Garment has been bleached
- Garment is soiled with flammable substances

Carhartt FR clothing can be repaired. The FR fabrics and Nomex® threads used for repairs should be equivalent in performance and FR characteristics to those used in the original construction of the garment.

CARHARTT FR IS GUARANTEED FLAME-RESISTANT FOR THE USEFUL LIFE OF THE GARMENT, PROVIDED MANUFACTURER CARE INSTRUCTIONS ARE FOLLOWED

### **CARHARTT FR LAYERED TESTING**

Many people ask about arc ratings when flameresistant clothing is layered. The total arc rating cannot be determined by adding the ratings of the two items. In most cases the total arc rating is higher than the number calculated by simply adding the arc ratings from the two items. Layered testing is the only way to determine the total arc rating for layered FR garments. Carhartt has conducted layered testing for a variety of combinations, using some of our most popular FR clothing styles. The resulting layered arc rating of the various combinations are listed on the table below for your reference.

THIS STYLE	LAYERED OVER THIS STYLE	EQUALS THIS ARC RATING
FRS160 WFRS160 (8.6 cal/cm²)	100234 100235 100237 (8.9 cal/cm²)	ATPV = 30 cal/cm <sup>2</sup>
FRS003 (8.7 cal/cm²)	100234 100235 100236 (8.9 cal/cm²)	ATPV = 28 cal/cm²
101017 (11 cal/cm²)	100234 100235 100237 (8.9 cal/cm²)	ATPV = 33 cal/cm²

Testing Conducted for Carhartt Inc. by Kinectrics High Current Laboratory, Toronto, Ontario, Canada



### **CUSTOM NON-STOCK SIZING**

Some styles come in sizes that don't work with the majority of customers. So when one or more of these Non-Stock Sizes is needed, they require longer lead times (typically 8-10 weeks), freight charges, order increments (by style multiples of minimum order number) and an "ALL ORDERS FINAL" return policy (no returns outside manufacturer defect). For more information on placing custom orders, contact your distributor or your sales representative.

Refers to Style #	Style #	Product Name	Refers to Style #	Style #	Product Name
100170	101659	FR Utility Denim Double-Front Jean — Relaxed Fit	101625	101652	FR Lanyard Access Jacket / Quilt-Lined
100234	101669	FR Force Cotton Short-Sleeve T-Shirt	101626	101640	FR Duck Bib Overall / Quilt-Lined
100235	101670	FR Force Cotton Long-Sleeve T-Shirt	101627	101641	FR Duck Bib Overall / Unlined
100237	101671	FR Force Cotton Long-Sleeve Henley	101628	102089	FR Striped Duck Bib Overall / Quilt-Lined
100410	102651	Force Cotton Delmont Short-Sleeve T-Shirt	101695	102091	FR Striped Duck Traditional Coat / Quilt-Lined
101483	102633	Relaxed-Fit Holter Jean	101698	102594	FR Force Cotton Hybrid Shirt
100493	102631	Force Color Enhanced Short-Sleeve T-Shirt	101699	102086	FR Striped Force Cotton Long-Sleeve T-Shirt
100632	102649	Rain Defender® Rutland Thermal-Lined Hooded Zip-Front Sweatshirt	101703	102088	FR Striped Duck Bib Overall / Unlined
100783	101644	FR Extremes® Arctic Parka	101705	102090	FR Striped Coverall
100784	101645	FR Extremes® Arctic Coat	102150	102643	FR Deluxe Coverall
100785	101638	FR Extremes® Arctic Biberall	102179	102957	FR Full Swing® Quick Duck® Jacket
100791	101663	FR Washed Duck Work Dungaree	102182	102956	FR Full Swing® Quick Duck® Coat
101017	101647	FR Traditional Twill Coverall	102291	102630	Rugged Flex® Rigby Dungaree
101029	101634	FR Mock Neck Vest	102905	102995	FR High-Visibility Force Long-Sleeve T-Shirt
101299	102972	Crowley Jacket	FRB004	101657	FR Utility Jean — Relaxed Fit
101576	101827	FR Force Rugged Flex® Quarter-Zip Fleece	FRB13	101656	FR Signature Denim Dungaree
101577	101828	FR Force Rugged Flex® Hooded Fleece	FRB100	101658	FR Signature Denim Jean — Relaxed Fit
101618	101642	FR Duck Traditional Coat / Quilt-Lined	FRB159	101661	FR Midweight Canvas Pant – Loose Original Fit
101621	101649	FR Duck Active Jac / Quilt-Lined	FRB240	101662	FR Canvas Cargo Pant
101622	101654	FR Midweight Canvas Active Jac / Quilt-Lined	FRS003	101681	FR Lightweight Twill Shirt
101623	101650	FR Duck Bomber Jacket / Quilt-Lined	FRS160	101680	FR Classic Twill Shirt

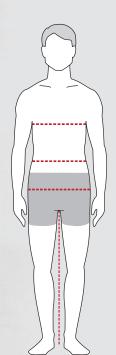
### SIZING CHARTS - MEN'S

### MEN'S BODY MEASUREMENTS (ALL EXCEPT NON-FR BIB OVERALLS, BIBERALLS & COVERALLS)

	SM	ALL	MED	IUM	LAF	RGE	X-LA	RGE	2X-L	ARGE	3X-L	ARGE	4X-L	ARGE	5X-L	ARGE	6X-L	ARGE
Chest	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68
Waist	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62
Hip (Seat)	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68

NOTE: If your measurement falls between sizes, buy the larger size.

#### **HOW TO MEASURE**



#### Chest:

Measure just under arms and across shoulder blades holding the tape firm and level. If your chest falls between sizes, order the next size up.

#### **Natural Waist:**

Bend side to side and find the natural bend in your body; this is your natural waist. Note: It may not be the smallest point.

### Hip/Seat:

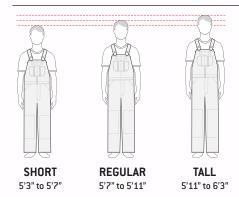
Measure the fullest point between your natural waist and crotch.

#### Inseam:

Measure from your crotch to the desired length on body. You may also measure pants that you currently own and like. Lay the garment flat and smooth out. Measure on the front from the crotch point along the seam to the hem for the inseam length.

For best results, measure over your undergarments.

#### **HEIGHT CHART**



### **PANTS & SHORTS FITS**

Straight Traditional Fit	Slim seat and thigh
Relaxed Fit	Relaxed seat and thigh
Loose Original Fit	Full seat and thigh

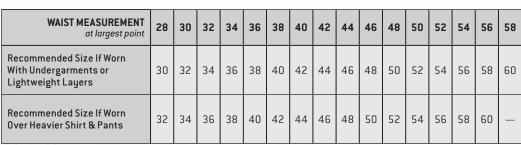
#### **TOPS FITS**

Slim Fit	Our leanest fit		
Relaxed Fit	A closer fit to the body		
Original Fit	The most room to move		

#### **BIB OVERALLS**

STYLE #: R27 / R41

- If you fall between sizes, size up
- Size to the largest part of your waist
- Order based on your normal pant inseam. For example, if you wear a 32" inseam pant, you would wear a 32" inseam bib overall





**FLAME-RESISTANT** 



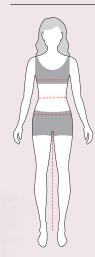
### SIZING CHARTS - WOMEN'S

#### **WOMEN'S BODY MEASUREMENTS**

		X-Small	Sm	nall	Med	ium	La	rge	X-La	arge	XX	(L
		2	4	6	8	10	12	14	16	18	2	0
	Bust	33	34	35	36	37	38½	40	411/2	431/2	45½	47½
	Natural Waist	27	28	29	30	31	32½	34	35¾	38	401/4	42½
	Hip (Seat)	36	37	38	39	40	411/2	43	441/2	461/2	481/2	50½

- For Outerwear, Bibs, and Tops: If you prefer a slimmer fit or are between sizes, try sizing down.
- For Bottoms: If your measurement falls between sizes, buy the larger size.

### **HOW TO MEASURE**



Measure the fullest part of your bust, keeping the measuring tape parallel to the floor.

#### Natural Waist:

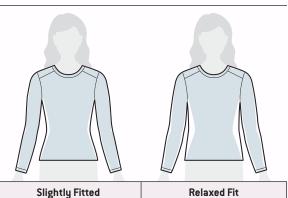
Bend side to side and find the natural bend in your body; this is your natural waist. Note: It may not be the smallest point.

**Hips:**Measure the fullest part of your hips, approximately 8" below the natural waist.

Measure from your crotch down to the desired length on body. You may also measure pants that you currently own and like. Lay the garment flat and smooth out. To get the inseam length, measure on the front from the crotch point, along the seam, to the hem.

For best results, measure over your undergarments.

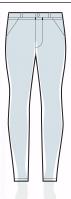
#### **WOMEN'S TOPS FIT**

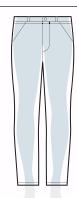


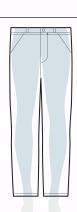
Fit flows over the	
contours of the body	
Gives shape without being snug	

**Relaxed Fit** Allows the most ease over body Subtle shape for maximum range of motion

### **WOMEN'S PANT FIT**

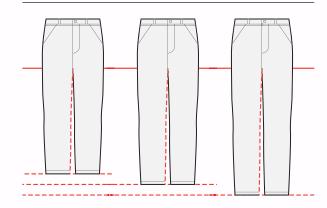






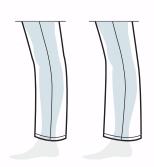
Slim Fit	Original Fit	Relaxed Fit
Mid-rise sits just below the waist	Mid-rise sits just below the waist	Mid-rise sits just below the waist
Fitted through the hip and thigh	Easy fit through the hip and thigh	Relaxed through the hip and thigh
Tough enough for work, feminine enough for the weekends	A classic look you can wear anywhere and everywhere	Our roomiest fit gives you plenty of room to move throughout the workday

### PANT INSEAM LENGTH CHART

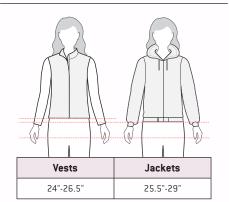


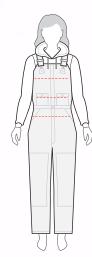
Short	Regular	Tall
Inseam	Inseam	Inseam
Measurement: 29"-30"	Measurement: 31"-32"	Measurement: 33"-34"

#### **LEG OPENINGS**



#### **OUTERWEAR CENTER BACK LENGTHS**

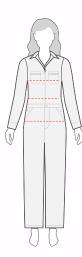




### **BIB OVERALL (LINED)**

STYLE #: 102743

- Size to the largest part of your body
- Reference the inseam length chart and body measurement chart for guidance
- Measurements assume bib overall is layered over cold weather clothing. If you won't be layering, you may need to size down.



### COVERALL (UNLINED)

STYLE #: 102450

- Size to the largest part of your body
- Reference the inseam length chart and body measurement chart for guidance
- If you plan to layer over pants, you may need to size up. If you won't be layering, you may need to size down.

### **LICENSEES**

#### **CARHARTT LICENSEE INFORMATION**

Carhartt licenses the manufacture and marketing of certain products to other companies. For sales information, marketing materials and product images for Carhartt-licensed products, please contact the company representatives listed below.

#### **CARHARTT FOOTWEAR**



#### **Black Diamond Group**

Contact: Terri Murray [781] 939-7842 tmurray@bdboots.com Hours: 8:30am – 5:00pm EST

If there are any problems contacting Terri directly, you can call Customer Service at (855) 277-8944

#### **CARHARTT MEDICAL SCRUBS**



### CID Resources, Inc.

(877) 554-3306 contactus@cidresources.com

#### **CARHARTT BELTS & WALLETS**



### American Accessories

[866] 892-0491 orders@americanaccessoriesinc.com Hours: 8am – 5pm EST

#### **CARHARTT SAFETY EYEWEAR**



#### **Pyramex Safety**

Contact: David Fish dfish@pyramexsafety.com Phone: (800) 736-8673 Fax: (901) 861-4967 Hours: Monday-Friday 7:30am - 5:30pm Central

#### **CARHARTT SOCKS**



#### **Renfro Corporation**

Contact: Kevin Venable (336) 719-8415 kevinvenable@renfro.com

#### **CARHARTT GLOVES**



#### Gordini

Contact: Matt Roberts (800) 467-3464 Matt\_Roberts@gordini.com

### **CARHARTT WORK BAGS, PACKS & GEAR**



#### 5 Horizons Group, LLC

Contact: Lisa Giess Phone: (855) 670-9930 Ext. 126 lisa.giess@5horizonsgroup.com Hours: 8:30am – 5pm CST



## Carhartt Core Style Reference Definition — Style Page

Customers consistently choose Carhartt Core styles year after year, and we have set higher levels of maintained inventory for these styles. This list of Carhartt Core will evolve and expand over the next year as we execute our inventory strategy to better serve our customers and consumers.

## Core Styles Featured in 2017 FR Catalog

Style	Color(s)	Product Description
FRA003	DNY	Flame-Resistant Double-Layer Force Knit Balaclava
FRB13	DNM	Flame-Resistant Signature Denim Dungaree
FRB100	DNM	Flame-Resistant Signature Denim Jean — Relaxed-Fit
FRB159	DNY, GKH	Flame-Resistant Midweight Canvas Jean — Loose Fit
FRB240	DNY, GKH	Flame-Resistant Canvas Cargo Pant
FRS160	KHI, DNY, GRY	Flame-Resistant Classic Twill Shirt
100235	410, 051, 250	Flame-Resistant Force Cotton Long-Sleeve T-Shirt
100237	410, 051, 250	Flame-Resistant Force Cotton Long-Sleeve Henley
100791	246	Flame-Resistant Washed Duck Work Dungaree
101618	211, 410	Flame-Resistant Duck Traditional Coat / Quilt-Lined
101621	211, 410	Flame-Resistant Duck Active Jac / Quilt-Lined
101623	410, 211	Flame-Resistant Duck Bomber Jacket
101626	211, 410	Flame-Resistant Duck Bib Overall / Quilt-Lined
101627	211, 410	Flame-Resistant Duck Bib Overall / Unlined
101698	410, 250	Flame-Resistant Force Cotton Button Down Shirt
102150	410, 250 ,033	Flame-Resistant Deluxe Coverall
102179	410, 211	Flame-Resistant Full Swing® Quick Duck® Jacket
102182	410, 211	Flame-Resistant Full Swing® Quick Duck® Coat

# INDUSTRIAL SALES TEAM

### **Brian Bonin**

Northeast Region ME, VT, NH, MA, RI, CT, NJ, NY, DE, MD, PA, VA (& Tyndale) Cell: (860) 836-0109 bbonin@carhartt.com

### **Paul Noto**

Southeast Region AL, GA, FL, SC, NC & Caribbean Cell: (205) 585-7939 pnoto@carhartt.com

### **Greg Harris**

Western Region AZ, CA, NV, ID, OR, WA, AK, HI Cell: (512) 788-0024 gharris@carhartt.com

#### TBD

Rocky Mountain Region CO, UT, WY, MT, ND

### **Rick Hawthorne**

Central Region KS, NE, WI, MN, MO, IA & SD Cell: (816) 520-6859 rhawthorne@carhartt.com

### TBD

Southwest Region TX, NM

### **Bill Noble**

Mid-Atlantic Region MI, IL, OH, IN, KY, WV Cell: (313) 300-4638 wnoble@carhartt.com

### **Barrett Marx**

Gulf Coast Region OK, AR, LA, MS, TN Cell: (985) 705-0156 bmarx@carhartt.com

### **Michelle Love**

National Accounts Cell: (313) 408-3746 mlove@carhartt.com

### Bill Marshall

Director of Industrial Sales North America Cell: (313) 394-9345 bmarshall@carhartt.com

