



**STATE OF CALIFORNIA**  
**Bid specification**

Contract 1-14-75-41C  
Attachment B  
9310-2703

**32# Ledger Web**

**1.0 SCOPE**

This specification describes archival quality acid free, plain 32# white ledger web paper suitable for use in offset presses.

**2.0 APPLICABLE SPECIFICATIONS**

Specifications and standards referenced in this document in effect on the opening of the Invitation for Bid forms a part of this specification where referenced.

**3.0 REQUIREMENTS**

**3.1 Configuration**

The 32# ledger shall be available in the following weights and sizes:

Weight/Grade	Size, Inches	Color
32lb.	11" -35"	White

Dimensional tolerance shall be ± 0.063 inches. 3" core. 50" outside diameter

**3.2 Material**

The 32# ledger shall be a commercial or industrial grade paper which, after being taken or rolled off paper making machine, undergoes no further process or treatment other than calendaring cutting and packaging. Original mill converted rolls only. No splice.

**3.3 Characteristics**

The paper shall demonstrate the following characteristics: Williamsburg 32/80 offset.

Characteristic	TAPPI Method	Requirement
Basic Weight lbs. (±5%)(17" X 22" - 500sheets)	T410	32
Caliper, mils, min	T411	6.0
Minimum Brightness, %	T452	94
Minimum Whiteness	CIE	143
Minimum Opacity, %	T425	95
Moisture % (+/-1)	T412	5.5
Minimum PH	T509	7
Minimum stiffness (gr.), Tabor		390MD/ 190CD
Minimum Porosity (S/100ML) Gurley, min	T460	8
Smoothness, Sheffield, min	T538	150

**3.4 Performance**

3.4.1 The paper shall perform satisfactorily in the various printing operations it is subjected to (i.e., printing, folding, slitting, collating, perforating, etc.).

3.4.2 The paper shall be suitable for use on high speed offset presses.

- 3.4.3 The paper shall be suitable for use on high speed toner based web fed digital printing, tipping, inserting and mailing equipment.
- 3.4.4 The paper shall lie flat on machine feed and collator surfaces before and after application of single side and back-to-back reproductions.
- 3.4.5 The paper shall demonstrate either a workable curl that can be overcome under reasonable working conditions or no tendency to curl.
- 3.4.6 The paper shall provide essentially trouble free performance.

### **3.5 Workmanship**

- 3.5.1 The paper stock shall be free from defects which degrade appearance, performance and serviceability.
- 3.5.2 The paper surfaces shall be free from lint, fuzz, wrinkles, waviness, folds, holes, tears, and other detrimental defects.
- 3.5.3 The paper shall be furnished in the size(s) ordered.
- 3.5.4 Grain of paper shall be long.
- 3.5.5 Natural curl of paper shall be minimal and away from wire side. Curl shall not hinder papers intended use.

### **3.6 Environmentally Preferable Purchasing (EPP)**

The product shall comply with one of the following:

- Forest Stewardship Council (FSC) Chain of Custody certification:  
<https://us.fsc.org/chain-of-custody-certification.201.htm>
- Sustainable Forest Initiative (SFI) Chain of Custody certification:  
<http://www.sfiprogram.org/sfi-standard/chain-of-custody-requirements/>
- Equivalent third-party forest sustainability certification.



# STATE OF CALIFORNIA

Contract 1-14-75-41C

Attachment B

9310-2705

## Bid Specification Paper, OCR Bond, Recycled and Virgin

### 1.0 SCOPE

This specification establishes the minimum acceptable quality level for Optical Character Recognition (OCR) bond paper. Printing operations may include text, line and halftone work, solids, four-color process, 133 line screens as well as folding, slitting, pasting, perforating, machine gathering and other book binding operations. The OCR paper intended use includes the above and OCR applications for various State Agencies.

### 2.0 SPECIFICATIONS AND STANDARDS

Specifications and standards referenced in this document in effect on the opening of the Invitation for Bid form a part of this specification where referenced. All paper characteristics shall comply with applicable Technical Association of the Pulp and Paper Industry (TAPPI) and Federal Joint Committee on Paper (JCP) Standards.

### 3.0 REQUIREMENTS

#### 3.1 Configuration

- 3.1.1 The paper shall be available in width from 8.5 inches to 38 inches and roll diameter of 40 inches to 50 inches. The roll width and diameter shall be as ordered. A tolerance of (+/-) 1/16 inch shall be allowed for the width and (+/-) 1/2 inch for the diameter. The roll stock core shall fit on a standard 3.0 inch chuck.
- 3.1.2 The roll shall not slip on the core and shall be of cardboard or fiberboard stock.
- 3.1.3 Rolls must be wound consistently with the wire or felt side out and stenciled showing unwind direction on both the roll and the wrapper.

#### 3.2 Material

- 3.2.1 Paper color shall be the same on both sides (felt/wire) of the paper.
- 3.2.2 Colors shall be consistent from lot to lot.

#### 3.3 Characteristics

CHARACTERISTICS	TAPPI TEST METHOD	OCR 20 lb.	OCR 24 lb.
Base Weight, 500 sheets, (+/-) 5% (17 in. x 22 in.)	T - 410	20	24
Thickness, mil, (min.)	T - 411	3.7	4.0
Tear strength, each direction (min.)	T - 414	40	50
Opacity, % (min.)	T - 425	85	88
Smoothness, SU	T - 538	100 -170	
*% Postconsumer Recycled Content, %	n/a	30 and 100, <b>see note</b>	
Brightness, %, (min.)	T - 452	90	

**\*Please Note:** Recycled, OCR Bond, Roll, White, 20 lb. and 24 lb. paper shall have 100% or 30% Postconsumer Recycled Content (PCRC) respectively.

### **3.4 Performance**

- 3.4.1** Paper shall be compatible with off press collation and folding machines at State facilities.
- 3.4.2** Paper shall not require unusual adjustment to presses, nor shall it require additional in-feed / tension or any other control equipment to be added to produce salable printed product.
- 3.4.3** Roll width and diameter shall be as ordered with a tolerance of (+/-) 1/16 inch allowed for width and 1/2 inch for diameter.
- 3.4.4** Paper shall lie flat and shall not curl during operating conditions.
- 3.4.5** Paper surface shall be free from lint, fuzz, or any particles which will pick, lift, fluff or pile on the blanket during press operation.

### **3.5 Workmanship**

- 3.5.1** The paper shall be free from defects that will affect appearance or serviceability.
- 3.5.2** The tension in winding the rolls shall be uniformly tight to prevent wrinkles and preserve the natural creeping characteristics of the paper.
- 3.5.3** The paper may be wound felt side in or felt side out, but the winding shall be consistent throughout the contract with no dished rolls, no welts, and no baggy rolls.
- 3.5.4** Splices shall be neat and consistent with good manufacturing practices; splices shall be accomplished with water-soluble, heat sealed, re-pulpable tape and shall be marked with an arrow on the roll edge.
- 3.5.5** Splice markers, are not acceptable; as they tend to fall out as the roll unwinds.
- 3.5.6** There shall be no more than 2 splices in any one roll. Splices shall be marked on the roll edge.
- 3.5.7** There shall be no splice 4 inches from the outer diameter of the roll or within 6 inches of the core.
- 3.5.8** Loose paper fibers on the end of the roll, breaks, tears, doctor picks, holes and patches over holes are not acceptable.

### **3.6 Environmentally Preferable Purchasing (EPP)**

- 3.6.1** The product shall contain 100% Postconsumer Recycled Content (PCRC), or a minimum of 30% PCRC, or 100% virgin fiber.
- 3.6.2** The product shall comply with one of the following:
  - Forest Stewardship Council (FSC) Chain of Custody certification:  
<https://us.fsc.org/chain-of-custody-certification.201.htm>
  - Sustainable Forest Initiative (SFI) Chain of Custody certification:  
<http://www.sfiprogram.org/sfi-standard/chain-of-custody-requirements/>
  - Equivalent third-party forest sustainability certification as determined by DGS.



# STATE OF CALIFORNIA Bid Specification

Contract 1-14-75-41C  
Attachment B  
9310-2706

## Paper, OCR Bond, Recycled (EDD)

### 1.0 SCOPE

This specification establishes minimum acceptable quality level for standard commercial grade bond paper with postconsumer recycled content, for the Employment Development Department (EDD). The paper is intended for copying and printing operations.

### 2.0 SPECIFICATIONS AND STANDARDS

Specifications and standards referenced in this document in effect on the opening of the Invitation for Bid form a part of this specification where referenced.

### 3.0 REQUIREMENTS

#### 3.1 Configuration

3.1.1 The offered product shall be suitable for use with the following equipment:

- Apollo Didde and Super Web for offset printing
- Docutech
- Rollsystem
- Xerox Dp180
- Xerox 4635 for the high speed printing

3.1.2 The paper shall comply to the following requirements:

Characteristics	TAPPI Test Method	Requirements	
Basis Weight, $\pm 5\%$ (17"X22"/500)	T 410	20lb.	24lb.
CALIPER, min	T-411	3.8 mils	4 mils
SMOOTHNESS(Sheffield)	T-538	100 - 190	100 -190
BRIGHTNESS ( $\pm 4.0\%$ )	T-452	90	90
OPACITY ( $\pm 2.5\%$ )	T-425	88%	89%
PICK RESISTANCE (Wax Pick), min	T-459	12	12
STIFFNESS (Taber), min	T-489	MD 1.9, CD 0.8	MD 1.9, CD 0.8
Moisture (% by weight)	T-412	4.2 – 5.0	4.2 - 5.0
POROSITY (Gurley), min	T-460	12 Sec	12 Sec
pH, cold extraction, min	T-509	5.5	5.5

3.1.3 Each roll shall be allowed a maximum of two (2) splices. Splices are to be made with a water-soluble heat sealed tape. **Splices shall be marked with an arrow on the roll edge.** Splice markers, which fall out as the roll unwinds, are not acceptable.

3.1.4 Rolls shall be coiled felt side out and stenciled showing unwind direction on both the roll and the wrapper.

#### 3.2 Performance

3.2.1. The paper shall process through the agency's equipment without requiring unusual adjustments to the equipment and shall not require any control devices to be added to the equipment. The paper shall not increase maintenance to or damage the equipment due to out-of-spec paper. More than one paper jam from any delivered lot will result in the rejection of the whole lot and the contractor will be given 10 days to remove and replace the non compliant lot.

3.2.2. Paper shall lie flat with no tendency to curl.

3.2.3. Surface shall be free from lint, fuzz, or any particles which will pick, lift, fluff or pile on the blanket under normal press conditions.

### **3.3 Environmentally Preferable Purchasing (EPP)**

3.3.1. The product shall contain 100% Postconsumer Recycled Content (PCRC) or a minimum of 30% PCRC.

3.3.2. The product shall comply with one of the following:

- Forest Stewardship Council (FSC) Chain of Custody certification:  
<https://us.fsc.org/chain-of-custody-certification.201.htm>
- Sustainable Forest Initiative (SFI) Chain of Custody certification:  
<http://www.sfiprogram.org/sfi-standard/chain-of-custody-requirements/>
- Equivalent third-party forest sustainability certification as determined by DGS.



# STATE OF CALIFORNIA Bid Specification

Contract 1-14-75-41C  
Attachment B  
9310-2708R1

## Paper, Offset Book, Recycled Stock

### 1.0 SCOPE

This specification establishes the minimum acceptable quality level for Paper, Offset Book, Recycled Stock suitable for application on a heat-set web press by the State of California, Office of State Publishing (OSP). The stock is primarily intended for the printing of publications.

### 2.0 SPECIFICATIONS AND STANDARDS

Specifications and standards referenced in this document in effect on the opening of the Invitation for Bid (IFB) form a part of this specification where referenced.

### 3.0 REQUIREMENTS

#### 3.1 Configuration

The stock roll shall be available in width from 11 - to - 38 inches and roll diameter of 40 - to - 50 inches. The roll width and diameter shall be as ordered with a tolerance of (+/-) 1/16 inch for the width and (+/-) 1/2 inch for the diameter. The roll stock core shall be of cardboard or fiberboard stock and shall fit on a standard 3.0 inch chuck and not slip on the core.

#### 3.2 Characteristics

The paper shall comply with the following:

CHARACTERISTICS	TAPPI TEST	REQUIREMENTS		
Basis Weight, lb. (500 sheets, 25 in. x 38 in.)	T-410	50	60	70
Thickness, mil, min.	T-411	3.7	4.3	5.0
Opacity, % (min.)	T-425	90	90	90
Brightness, (+/-) 2, White	T-452	90		
Bursting Strength, lbs./in., (min.)	T-403	19	23	25
Smoothness – Sheffield, SU, (max.)	T-538	130	150	170

#### 3.3 Performance

- 3.3.1 The paper shall be suitable for use in offset and digital printing; to also include trimming, binding, folding, punching and other associated OSP operations.
- 3.3.2 Paper shall not require unusual adjustment to production equipment, nor shall it require additional in-feed / tension or any other control equipment to be added to produce salable product.
- 3.3.3 Press blanket wash-ups due to piling of paper lint or any particles, which pick, lift, fluff or pile shall not be required before 50,000 impressions or cut offs.
- 3.3.4 Web breaks caused by mill splices or manufacturing defects shall not exceed 1% of the rolls supplied (i.e. a maximum of 1 web break per 100 rolls).

#### 3.4 Workmanship

- 3.4.1 The paper shall be free from defects that will affect appearance or serviceability.

- 3.4.2 The tension in winding the rolls shall be uniformly tight to prevent wrinkles and preserve the natural creeping characteristics of the paper.
- 3.4.3 The paper may be wound felt side in or felt side out, but the winding shall be consistent throughout the contract with no dished rolls, no welts, and no baggy rolls.
- 3.4.4 Splices shall be neat and consistent with good manufacturing practices; splices shall be accomplished with water-soluble, heat sealed, re-pulpable tape and shall be marked with an arrow on the roll edge.
- 3.4.5 Splice markers, are not acceptable; as they tend to fall out as the roll unwinds.
- 3.4.6 There shall be no more than 2 splices in any one roll. Splices shall be marked on the roll edge.
- 3.4.7 There shall be no splice 4 inches from the outer diameter of the roll or within 6 inches of the core.
- 3.4.8 Loose paper fibers on the end of the roll, breaks, tears, doctor picks, holes and patches over holes are not acceptable.

### 3.5 Environmentally Preferable Purchasing (EPP)

3.5.1 The product shall contain a minimum of 30% Postconsumer Recycled Content (PCRC).

3.5.2 The product shall comply with one of the following:

- Forest Stewardship Council (FSC) Chain of Custody certification:  
<https://us.fsc.org/chain-of-custody-certification.201.htm>
- Sustainable Forest Initiative (SFI) Chain of Custody certification:  
<http://www.sfiprogram.org/sfi-standard/chain-of-custody-requirements/>
- Equivalent third-party forest sustainability certification as determined by DGS.



**STATE OF CALIFORNIA**  
**Bid specification**

Contract 1-14-75-41C  
Attachment B  
9310-2758\_r2

**Uncoated Recycled Folio**

**1.0 SCOPE**

This specification describes an archival quality acid free, plain recycled offset, folio paper suitable for use in various offices copying equipment such as high speed copier/duplicators, offset presses, laser printers, plain paper fax machines etc.

**2.0 APPLICABLE SPECIFICATIONS**

Specifications and standards referenced in this document in effect on the opening of the Invitation for Bid forms a part of this specification where referenced.

**3.0 REQUIREMENTS**

**3.1 Configuration**

The recycled offset sheets shall be available in the following weights and sizes:

Weight/Grade	Size, Inches	Color
50lb.	8.5 - to - 38.0	White
60lb.		White
70lb.		White

Dimensional tolerance shall be  $\pm 0.063$  inches ( $\pm 1.6$  mm) either direction. Adjacent sheets in carton shall not vary more than 0.015 inches (0.4 mm) from each other.

**3.2 Material**

The recycled offset paper shall be a commercial or industrial grade paper which, after being taken or rolled off paper making machine, undergoes no further process or treatment other than calendaring cutting and packaging. Mill converted and packaged product only.

**3.3 Characteristics**

The bond paper shall demonstrate the following characteristics:

Characteristic	TAPPI Method	Requirement
Basic Weight lbs. ( $\pm 5\%$ )(25" X 38"	T410	50/60/70
Caliper, mils,	T411	3.9/4.5/5.3
Minimum Brightness,	T452	92
Minimum Opacity,	T425	90/92/94
Moisture, %	T412	5.5
Minimum pH	T509/529	7.0
Minimum stiffness (gr.),	T489	1.8/3.0/4.2 MD, 1.0/1.5/2.3 CD
Minimum Porosity (S/100ML) Gurley,	T460	12/13/15
Smoothness, Sheffield,	T538	150

### 3.4 Performance

- 3.4.1 The paper shall perform satisfactorily in the various printing operations it is subjected to (i.e., printing, folding, slitting, collating, perforating, etc.).
- 3.4.2 The paper shall be suitable for use on high speed offset presses.
- 3.4.3 The paper shall lie flat on machine feed and collator surfaces before and after application of single side and back-to-back reproductions.
- 3.4.4 The paper shall demonstrate either a workable curl that can be overcome under reasonable working conditions or no tendency to curl.

### 3.5 Workmanship

- 3.5.1 The paper stock shall be free from defects which degrade appearance, performance and serviceability.
- 3.5.2 The paper surfaces shall be free from lint, fuzz, wrinkles, waviness, folds, holes, tears, and other detrimental defects.
- 3.5.3 The paper shall be furnished in the size(s) ordered and shall be flat, trimmed square on four sides with clean smooth edges, and evenly jogged.
- 3.5.4 Grain of paper shall be long unless otherwise specified in the Invitation for Bid (IFB).
- 3.5.5 Natural curl of paper shall be minimal and away from wire side. Curl shall not hinder papers intended use.

### 3.6 Environmentally Preferable Purchasing (EPP)

- 3.6.1 The product shall contain a minimum of 30% Postconsumer Recycled Content (PCRC).
- 3.6.2 The product shall comply with one of the following:
- Forest Stewardship Council (FSC) Chain of Custody certification: <https://us.fsc.org/chain-of-custody-certification.201.htm>
  - Sustainable Forest Initiative (SFI) Chain of Custody certification: <http://www.sfiprogram.org/sfi-standard/chain-of-custody-requirements/>
  - Equivalent third-party forest sustainability certification as determined by DGS.