

MECHANICAL SPECIFICATIONS

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For General Advertising
Information, call
612-673-4000

ROP DEADLINES

Publication Day/Product	4-Color and Spot Color Space Commitment	Black/White Space Commitment	Materials Due 5 pm	Page-Ready Materials/Final Corrections Due
Monday-All sections	Wed., 3 pm	Thu., 3 pm	Thu.	Fri., noon
Tuesday				
– A News, B News, Sports and Business	Thu., 3 pm	Fri., 3 pm	Fri.	Mon., noon
– Variety	Thu., 3 pm	Thu., 5 pm	Thu.	Fri., 5 pm
Wednesday				
– A News, B News, Sports and Business	Fri., 3 pm	Mon., 3 pm	Mon.	Tue., noon
– Variety, Home+Garden	Thur., 3 pm	Fri., 3 pm	Fri.	Mon., noon
Thursday				
– A News, B News, Sports and Business	Mon., 3 pm	Tue., 3 pm	Tue.	Wed., noon
– Taste	Fri., 3 pm	Mon., 3 pm	Mon.	Tue., 5 pm
– Variety and Zones	Fri., 3 pm	Mon., 3 pm	Mon.	Tue., 5 pm
Friday				
– A News, B News, Sports and Business	Tue., 3 pm	Wed., 3 pm	Wed.	Thu., noon
– Variety and Zones	Mon., noon	Tue., 3 pm	Tue.	Wed., 5 pm
– Movie Ads	Mon., 3 pm	Wed., noon	Wed., noon	Wed., noon
Saturday				
– A News, B News, Sports and Business	Wed., 3 pm	Thu., 3 pm	Thu.	Fri., noon
– Cars	Tue., noon	Wed., 5 pm	Wed.	Thu., 5 pm
– Variety	Tue., 5 pm	Wed., 3 pm	Wed.	Thu., 5 pm
Sunday				
– A News and Sports	Tue., noon	Thu., 3 pm	Thu.	Fri., noon
– B News and Zones	Tue., 3 pm	Wed., 3 pm	Thu.	Fri., noon
– Travel, Variety and Business	Tue., noon	Wed., noon	Wed.	Thu., 5 pm
– OpEx	Tue., noon	Thu., 3 pm	Thu.	Fri., noon

Notes

- All deadlines: Central Standard Time (CST).
- Double-trucks: due 24 hours in advance of above deadlines.
- Unique ads: due 24 hours in advance of space commitments listed above.

If You Build Your Ad

- Page ready files are considered ready to publish “as is” and must comply with mechanical requirements (see page 8). Star Tribune reserves the right to reduce the ad to fit the space ordered.
- PDF format preferred.
- CMYK color – 200 dpi for newsprint (300 dpi for commercial).
- Embedded fonts.
- Electronic files are submitted via e-mail to your Star Tribune Sales Representative.

For all products, ad orders are non-cancelable after the space deadline and the Advertiser/Agency will be charged for the space regardless of whether the advertisement is published.

ROP MECHANICAL REQUIREMENTS

ROP PRODUCTION INFO/COLOR MECHANICAL REQUIREMENTS

The following requirements apply to Star Tribune's newsprint products – ROP, TCV and Sunday Comics. Contact your sales representative for mechanical requirements for our other products.

REPRODUCTION REQUIREMENTS

- Printing process is photo composition, web offset.
- The minimum font size recommended is 7 point for sans-serif type or 12 point for serif type (black type on white background or reversed)
- Type smaller than 12 points should not be reversed on a 4 color background
- Type smaller than 10 points should not be reversed on a single color background
- If reversing type from 4 color it is recommended that a bold font is used
- Serif and fine script type below 12 points should not be screened on any color
- For contrast and readability reverse type should not be placed on screens below 50%
- Borders smaller than 4 points should be built as a single color
- Surprinted type should be solid black and contrasted against 40% screen or less
- Reverse type should be white type on a 50% screen or higher – avoid serif fonts
- Total Area Coverage (TAC): The darkest 4-color area should not exceed 240%

RECOMMENDED SCREEN RANGES

- Images should be designed to compensate for a 28-30% dot gain.
- Reverse Color 50% to 100%.
- Overprint 10% to 40%.
- Minimum size highlight dot: Cyan 4%, Magenta 2%, Yellow 2%, Black 0%.
- Color should be gray balanced.

LINE SCREEN FOR ROP

85 line screen

ROP DEPTH REQUIREMENTS

Minimum depth is one inch on one column width.

Advertisements can be ordered in half-inch increments.

Ads exceeding 18 inches in depth are set to occupy full depth and are charged at full depth.

ELECTRONIC SUBMISSION OF COMPLETED ADS AND AD MATERIALS

We request that all electronic files be submitted to the Star Tribune via e-mails to your Sales Representative.

PREFERRED FORMATS FOR COMPLETED ADS PDFs

We ask that our customers submit Adobe Acrobat PDFs of their ads. All PDFs must be created through Adobe Distiller and, if the ad is a color ad, created in CMYK color and not RGB color. All fonts must be embedded.

IMAGES AND AD COMPONENTS

Images and ad components should be submitted in TIFF, EPS, JPEG or BMP (Bitmapped) formats. Color images need to be CMYK. Black and white need to be grayscale.

RESOLUTION

Black and White – 170 dpi at 100%

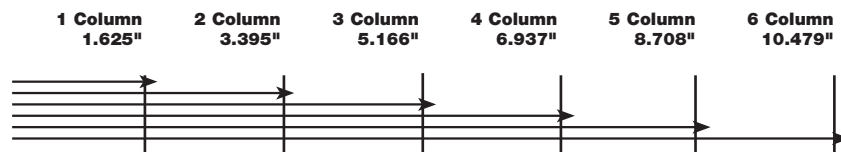
Four Color – 200 dpi at 100%

Line Art – 800 to 1200 dpi at 100%

TECHNICAL QUESTIONS

For further information, contact your sales rep or Graphic Services at 612-673-7038.

STAR TRIBUNE STANDARD COLUMN MEASUREMENTS



Double Truck = 21.7292 Inches Wide x 20.5 Inches Deep

CLASSIFIED MECHANICAL REQUIREMENTS

PRODUCTION INFORMATION COLOR MECHANICAL REQUIREMENTS

The following requirements apply to Star Tribune's Classified newsprint products. Contact your sales representative for mechanical requirements for our other products.

REPRODUCTION REQUIREMENTS

- Printing process is photo composition, web offset.
- The minimum font size recommended is 7 point for sans-serif type or 12 point for serif type (black type on white background or reversed)
- Type smaller than 12 points should not be reversed on a 4 color background
- Type smaller than 10 points should not be reversed on a single color background
- If reversing type from 4 color it is recommended that a bold font is used
- Serif and fine script type below 12 points should not be screened on any color
- For contrast and readability reverse type should not be placed on screens below 50%
- Ruler smaller than 4 points should be built as a single color
- Surprinted type should be solid black and contrasted against 40% screen or less
- Reverse type should be white type on a 50% screen or higher – avoid serif fonts
- Total Area Coverage (TAC): The darkest 4-color area should not exceed 240%

RECOMMENDED SCREEN RANGES

- Images should be designed to compensate for a 28-30% dot gain.
- Reverse Color 50% to 100%.
- Overprint 10% to 40%.
- Minimum size highlight dot: Cyan 4%, Magenta 2%, Yellow 2%, Black 0%.
- Color should be gray balanced.

LINE SCREEN FOR ROP

85 line screen

CARS ROP AD SPECS

Ad Size	Dimensions
• 1/8 page	5.1667" x 5.125"
• 1/4 page	5.1667" x 10.25"
• 1/2 page horiz.	10.4792" x 10.25"
• Full page	10.4792" x 20.5"
• 1/2 page vert.	5.1667" x 20.5"

ROP DEPTH REQUIREMENTS

Minimum depth is one inch on one column width.

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Ads exceeding 18 inches in depth are set to occupy full depth and are charged at full depth.

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IMAGES AND AD COMPONENTS

Images and ad components should be submitted in TIFF, EPS, JPEG or BMP (Bitmapped) formats. Color images need to be CMYK. Black and white need to be grayscale.

RESOLUTION

Black and White – 170 dpi at 100%

Four Color – 200 dpi at 100%

Line Art – 800 to 1200 dpi at 100%

TECHNICAL QUESTIONS

For further information, contact your sales rep or Graphic Services at 612-673-7038.

PREPRINTED SUPPLEMENTS MECHANICAL REQUIREMENTS

PAPER STOCK REQUIREMENTS

STOCK

Minimum: Multiple Page Preprints .0025 (each page)
Single Sheet Preprints .005

MATERIAL SIZE RESTRICTIONS

SIZE

Minimum: 5" x 7"
Maximum: 10" x 11.5" (folded edge)

RECEIVING DOCK

DAYS

Monday-Friday 7:00 AM - 4:30 PM
Saturday 7:00 AM - NOON

CLOSED

Sunday and holidays

Holidays affect deadlines. Please check with your
Star Tribune sales representative.

DELIVERY ADDRESS

for Star Tribune Newspaper and StribExpress

Heritage Production Facility
800 1st Street North, Minneapolis, MN 55401

CONTACTS

Mailroom Foreman	Joe Tucker 612-673-8837
Receiving Dock	612-673-8829

Note: Ask your Star Tribune sales rep for *A Guide to Designing, Packaging and Shipping Preprinted Machine Inserted Supplements*. Supplements that do not meet the proper size, paper weight and packing specifications may be subject to extra charges.

PREPRINT REQUIREMENTS

PREPRINT STOCK, SIZE AND THICKNESS

Preprints that meet minimum size and thickness requirements are less likely to have inserting and distribution problems.

MINIMUM PAGE THICKNESS

Multiple Page Preprint Page:	.0025 each
Single Sheet Preprints:	.005 each
Minimum Size:	5" x 7" (Folded Edge)
Maximum Size:	10" x 11.5" (Folded Edge)

Inserts with the following characteristics may cause problems for inserting machines. We will run these inserts to the best of our ability but can not guarantee results.

Quarter Folding

Quarter folding is not recommended and not necessary when minimum paper requirements are met.

Print Quantities

For inserts meeting these guidelines, the pad should be a minimum of 2% of the draw order. A higher percentage pad may be required for out-of-specification inserts, especially for single sheet inserts and inserts printed on lightweight paper. Check with your Sales Representative.

Paper Grocery Bags

Grocery bags to be inserted as supplements must meet the following standards:

- Bags must be folded exactly in half. Finished product should measure 8.5" x 11.75".
- No seams or glue on the outside of the folded bag.
- No handles on the bag.
- Bags must be packed in gaylords and stacked on skids, not wrapped. Turns should be 6" – 12".

Gloss Paper

Coated, gloss and flimsy calendered papers tend to pull doubles and multiples.

Staples

Page counts of 32 pages or less should not be stapled. Oversized staples cause jams in the insertion equipment.

Pullouts/Oversized

Oversized pop-ups extending beyond the maximum trim size are often damaged during packing. Damaged supplements result in poor insertion results.

Off-Folds

Layered, off-folded supplements cause unevenly stacked bundles resulting in added insertion waste.

Die-Cuts

Unconventional shapes and sizes are difficult and sometimes impossible to insert. Two hundred prototypes are required for mailroom testing before acceptance.

Product Samples/Attachments

Objects such as keys, coins, CDs, etc., attached to any page of an insert; sachets containing scented objects; liquids or shampoos; polybags; paper bags; or product samples may not be ideal for machine insertion. These pieces can often be hand inserted in the field by carriers at an additional cost. Please contact your Sales Representative for more information.

POLY BAGS MECHANICAL REQUIREMENTS

DAILY MECHANICALS (WIDTH & DEPTH)

Minimum Bag Size: 8" x 19" (Add 1" to width on holidays)
1.0 Mil (.0010) in thickness

SUNDAY MECHANICALS (WIDTH & DEPTH)

Minimum Bag Size: 13.75" x 21"
1.5 Mil (.0015) in thickness

PACKING & SHIPPING SPECIFICATIONS

Header must be 1/16" thick, made of corrugated cardboard and be the width of the bag (wire and plastic headers are not acceptable). Bags must be perforated and stapled to the header with industrial staples. Each header should hold 50 bags.

Boxes should not exceed 1,000 bags or 40 pounds. Boxes should be packed on 40" x 48" pallets not exceeding 54" in height and marked 1 of 20, 2 of 20, etc.

DELIVERY

Heritage Production Facility
800 1st Street North, Minneapolis, MN 55401

RECEIVING DOCK

Monday-Friday: 7:00 AM - 4:30 PM
Saturday: 7:00 AM - Noon
Phone Number: 612-673-8829

POLY-BAGS WITH SAMPLES

Advertiser must provide a bag and sample before newspaper acceptance.

PRINT & DELIVER POLY-BAGS

Ask your Star Tribune sales representative about a custom quote for bag design, print and distribution.

NOTE: This suffocation warning must be included in the image area:
CAUTION! KEEP AWAY FROM SMALL CHILDREN. THE THIN FILM MAY CLING TO NOSE AND MOUTH AND PREVENT BREATHING.

TWIN CITIES VALUES INSERT MECHANICAL REQUIREMENTS

PAPER STOCK REQUIREMENTS

STOCK

Minimum: Multiple Page Preprints .0025 (each page)
Single Sheet Preprints .005

MATERIAL SIZE RESTRICTIONS

SIZE

Minimum: 5" x 7"
Maximum: 10" x 11" (folded edge)

DELIVERY ADDRESS

Quad Graphics
Attn: TCV
5101 Valley Industrial Boulevard South
Shakopee, MN 55379-1821

Receiving Dock: Monday - Friday 7am to 4:30 pm

PRINT AND DELIVER MECHANICAL REQUIREMENTS

	Document Size	Image Area
Print and Deliver, 4-color, 2 sided	5.5" x 8.5"	5" x 8"
	5.5" x 11"	5" x 10.5"
	8.5" x 11"	8" x 10.5"
	10" x 11"	9.5" x 10.5"
Non Gloss	8.5" x 11"	8" x 10.5"

STARTRIBUNE.COM ONLINE MECHANICAL REQUIREMENTS

GENERAL REQUIREMENTS FOR ALL ONLINE DISPLAY ADS

- Star Tribune requests that all rich media creative be sent and built in HTML5. Flash is no longer supported.
- All banners with a white background must have a non-white border of 1 pixel
- Banners may loop 3 times or animate for 30 seconds, whichever is less
- Click-through URLs may not exceed 512 characters
- Audio must be user initiated by click and requires an on/off button. Ad will load with audio turned off. Expanding panels are the exception – audio may play after a 2 second delay when expanded, audio must stop when expanding panel is closed.
- Companies supplying creative should submit creative 3 business days prior to placement
- We accept customer provided ads (3rd party tag) from PointRoll, EyeBlaster, and other vendors compliant to our guidelines
- Creative must not auto-download additional media, spawn additional ads, or ask the user to download plug-ins
- Star Tribune reserves the right to approve or decline an ad campaign if delivery of site content or user experience is compromised. All ad materials must be compliant with Star Tribune ad acceptability standards and guidelines

HTML5 SPECIFICATIONS

HTML5 creative should follow the same digital advertising specifications as other Standard and Rich Media creative developed for Star Tribune.

FILE SIZE for all ad types

- **100K** initial load
- **200K** polite load
- **2MB** with in-banner Video (user hosted only)
- File Size is measured after all code and assets are stored to a .zip file. The .zip file must include ALL assets and reference code such as JavaScript libraries and Web Fonts. Javascript libraries and Web fonts can be called from another location but are considered as part of the overall file size.

ASSETS

- All creative assets (images, code, etc.) should be submitted in a single .zip file.
- The .zip file must include all referenced code
- Once the .zip is uncompressed, the ad must be viewable without a network connection.
- The HTML5 creative must include the complete HTML document that includes at least one click tag and can load into an iFrame
- Do not include any .zip files or unreferenced files within your HTML5 .zip file.
- HTML5 assets should not use local or session storage.
- Do not include backup assets in your HTML5 .zip file unless they're referenced by the HTML file.
- HTML text or webfonts should be used whenever possible to reduce file weight, improve readability, scalability and accessibility. Fonts may be stored in the ad package as an asset.
- Minimize file count within the zip document to decrease the overall deliverable file size. The more files a creative needs to load in order to render will lead to increased user-perceived latency.
- Supported file types and limits for your .zip file: HTML, HTM, JS, CSS, JPG, JPEG, GIF, PNG, JSON, XML, and SVG.

STARTRIBUNE.COM ONLINE MECHANICAL REQUIREMENTS (CONT.)

HTML5 SPECIFICATIONS

Click Tags

- Ads must use the clickTag variable as the click destination..
- The URL will be added in the ad-serving platform—do not hardcode the URL. Hard-coded click-throughs URLs cannot be recorded by the ad server.
- All required clickTags must be placed within the HTML file without minification or obfuscation.
- When multiple .html files are included, the click tag variable must be present in the first .html file that loads

Sample clickTag insertion:

```
<html>
<head>
<meta name="ad.size" content="width=300,height=250">
<script type="text/javascript">
var clickTag = "%CLICK_URL_UNESC%%DEST_URL%";//This value is used
by the ad server and should not be changed
</script>
</head>
[The rest of your creative code goes here.]
</html>
```

Ensure your creative uses the clickTag variable as the click-through URL:

```
<a href="javascript:window.open(window.clickTag)">

</a>
```

Or place it in a container by making use of events:

```
<div onclick="window.open(window.clickTag);">

</div>
```

- In instances of multiple clickthrough urls in the same ad, enumerate click tags as follows:
clickTag0, clickTag1, clickTag2
- Set the target attribute to “_blank” so the click destination opens in a new window or tab
- Ad dimensions must match placement dimensions to avoid distortion unless the ad is specifically designed to be responsive.
- Ad dimensions should be defined within the <head> using the <meta> tag with the name “ad.size”
For example,

```
<meta name="ad.size" content="width=300,height=250">
```

- To prevent code conflicts with the pub site the use of wrapping Javascript and CSS in closures or namespaces is recommended

STARTRIBUNE.COM ONLINE MECHANICAL REQUIREMENTS (CONT.)

STANDARD DISPLAY ADS

Ad Name	Dimensions	File Size*	File Type	
Medium Rectangle	300 x 250	40k	JPG, GIF, PNG, HTML5, or 3rd party ad tag	Runs on Advantage
Leaderboard	728 x 90	40k	JPG, GIF, PNG, HTML5, or 3rd party ad tag	Runs on Advantage
Super Leaderboard	970 x 90	40k	JPG, GIF, PNG, HTML5, or 3rd party ad tag	
Billboard	970 x 250	50k	JPG, GIF, PNG, HTML5, or 3rd party ad tag	
Half Page Banner	300 x 600	50k	JPG, GIF, PNG, HTML5, or 3rd party ad tag	
Portrait	300x1050	80k	JPG, GIF, PNG, HTML5, or 3rd party ad tag	
Wide Sky	160 x 600	40k	JPG, GIF, PNG, HTML5, or 3rd party ad tag	Runs on Advantage
Half Banner	234 x 60	15k	JPG, GIF, PNG, HTML5, or 3rd party ad tag	
Micro Banner	320 x 50	15k	JPG, GIF, PNG, HTML5, or 3rd party ad tag	

UNIQUE / PREMIUM DISPLAY ADS

Interstitial

Dimensions	640 x 480 preferred. 900 x 600 max.
File Size*	80k
File Type	JPG, GIF, PNG, HTML5, or approved 3rd party ad tag
Animation	Limited to 15 seconds of animation
Frequency	Limited to 1 per user per 7 days
Other Capabilities	Video allowed. (see In-Banner Video specifications)

Expanding Medium Rectangle

Dimensions	
Medium Rectangle	300 x 250
Expanding Panel	500 x 300
File Size*	
Medium Rectangle	40k
Expanding Panel	50k
File Type	JPG, GIF, PNG, HTML5, or approved 3rd party ad tag
z-index	100,000
Close Button	Required in the lower right hand corner with the standard X and the word close. Example: X CLOSE
Expansion Behavior	May expand on click. Expands left. Must close in the same manner it opens. Rollover triggers may not exceed 30% of the ad space, must be clearly marked, and must have ½ second delay.
Other Capabilities	Video allowed in expanding panel. (see In-Banner Video specifications)

*Please see file size limits for HTML5 creatives on page 2

STARTRIBUNE.COM ONLINE MECHANICAL REQUIREMENTS (CONT.)

UNIQUE / PREMIUM DISPLAY ADS

Expanding Leaderboard

Dimensions	
Leaderboard	728 x 90
Expanding Panel	728 x 290 (total size, 728 x 200 if it expands below the leaderboard)
File Size*	
Leaderboard	40k
Expanding Panel	50k
File Type	JPG, GIF, PNG, HTML5, or approved 3rd party ad tag
z-index	100,000
Close Button	Required in the lower right hand corner with the standard X and the word close. Example: X CLOSE
Expansion Behavior	May expand on rollover or on click. Expands down. Must close in the same manner it opens. Rollover triggers may not exceed 30% of the ad space, must be clearly marked, and must have ½ second delay.
Other Capabilities	Video allowed in expanding panel. (see In-Banner Video specifications)

Overlay

Dimensions	
	Variable. 640 x 480 preferred. 970 x 600 max.
File Size*	
	up to 80k
File Type	JPG, GIF, PNG, HTML5, or approved 3rd party ad tag

Skins

Dimensions	
	293 x 800 (per side)
File Size*	
	50k, each
File Type	JPG, GIF, or PNG
	3rd Party click and impression trackers are also accepted

Expanding Halfpage Ad

Dimensions	
Halfpage Ad	300 x 600
Expanding Panel	600 x 600
File Size*	
Halfpage Ad	50k
Expanding Panel	50k
File Type	JPG, GIF, PNG, HTML5, or approved 3rd party ad tag
z-index	100,000
Close Button	Required in the lower right hand corner with the standard X and the word close. Example: X CLOSE
Expansion Behavior	May expand on rollover or on click. Expands left. Must close in the same manner it opens. Rollover triggers may not exceed 30% of the ad space, must be clearly marked, and must have ½ second delay.
Other Capabilities	Video allowed in expanding panel. (see In-Banner Video specifications)

**Please see file size limits for HTML5 creatives on page 2*

STARTRIBUNE.COM ONLINE MECHANICAL REQUIREMENTS (CONT.)

UNIQUE / PREMIUM DISPLAY ADS

Expanding Pencil Ad

Dimensions	970 x 30
Expanding Panel	970 x 300
File Size *	40k
Expanding Panel	50k
File Type	JPG, GIF, PNG, HTML5, or approved 3rd party ad tag
Close Button	Required in the lower right hand corner with the standard X and the word close. Example: X CLOSE
Replay Button	Must include "Replay This Ad" on the right hand side of the Pencil (970 x 30) piece of the ad.
Auto-Expansion Behavior	On the first impression per user, the ad will auto-expand for 5 seconds and then auto-close
Expansion Behavior	Every impression after the first, the user must click the Replay button to expand the ad. Also must click the close button to close

Floating Banner

Dimensions	Maximum of 500 x 500
File Size*	50k
File Type	JPG, GIF, PNG, HTML5, or approved 3rd party ad tag
z-index	100,001
Close Button	Required in the lower right hand corner with the standard X and the word close. Example: X CLOSE
Frequency Cap	Limited to one ad view per user per session
Floating Behavior	Floating duration is limited to 10 seconds, then must collapse / dissolve in a standard Medium Rectangle ad or Leaderboard.
Restrictions	Floating ads must not appear above masthead, navigation or other ads. Click-through area should only be the size of the creative area if the entire 500 x 500 area is not used
Other Capabilities	Video allowed. (see In-Banner Video specifications)

Hoverboard

Dimensions	1016 x 90
Leave Behind	100x 90
File Size*	
Expanding Panel	50k
File Type	JPG, GIF, PNG, HTML5, or approved 3rd party ad tag
Close Button	Required in the lower right hand corner with the standard X and the word close. Example: X CLOSE
Expansion Behavior	Loads expanded - retracts from 1016 x 90 ad to 100 x 90 leave behind ad on user click.

Preroll

File Size*	3 MB
File Type	wmv, mov, mpg minium 1024 x 576 pixels recommended
Duration	15 seconds. No clipping required (no bars, tones, slates, etc...)
Aspect Ratio	16:9 preferred
Frame Rate	15 frames per second, 30 preferred

**Please see file size limits for HTML5 creatives on page 2*

STARTRIBUNE.COM ONLINE MECHANICAL REQUIREMENTS (CONT.)

UNIQUE / PREMIUM DISPLAY ADS

In-Banner Video

File Size*	3 MB
File Type	wmv, mov, mp4
Duration	30 seconds (15 second limit for Interstitials)
z-index	100,000 (z-index only applies to Standard Medium Rectangle ad and Standard Halfpage ad)
Audio	Audio must be user initiated by click and requires an on/off button. Ad will load with audio turned off. Expanding panels are the exception – audio may play after a 2 second delay when expanded, audio must stop when expanding panel is closed.
Availability	May run in Medium Rectangle ads, Halfpage ads, Expanding Medium Rectangle ads, Expanding Leaderboards, Auto Expanding Leaderboards, Doublebills, and Interstitials

**Please see file size limits for HTML5 creatives on page 2*

STARTRIBUNE.COM MOBILE AND TABLET MECHANICAL REQUIREMENTS

MOBILE BROWSER

Mobile Browser	Dimensions	File Size*	File Type
Mobile Banner	320 x 50	15k	JPG, GIF, PNG, HTML5, or 3rd party ad tag
Medium Rectangle	300 x 250	40k	JPG, GIF, PNG, HTML5, or 3rd party ad tag
Half Banner	234 x 60	15k	JPG, GIF, PNG, HTML5, or 3rd party ad tag
Mobile Interstitial	320 x 420	40k	JPG, GIF, or PNG
	480 x 280	40k	JPG, GIF, or PNG
Mobile Overlay	Variable. 300 x 250 prefer. 300 x 400 max.	40k	JPG, GIF, PNG, HTML5, or approved 3rd party ad tag

APPS

Tablet Apps	Dimensions	File Size*	File Type
Billboard Portrait Mode	738 x 70	59k	jpg or gif
Billboard Landscape Mode	994 x 70	59k	jpg or gif
Half Page ad (Portrait and Landscape)	315 x 595	59k	jpg or gif
Strip Ad Portrait Mode	994 x 150	59k	jpg or gif
Strip Ad Landscape Mode	738 x 150	59k	jpg or gif
Interstitial Portrait Mode	560 x 800	79k	jpg or gif
Interstitial Landscape Mode	900 x 500	79k	jpg or gif

iPad App Spec notes:

- Video, flash, and rich media are not allowed
- iPad screen resolution 1024 x 768

iPhone and Android Apps	Dimensions	File Size*	File Type
Banner ad	320 x 50	8k	jpg or gif
Interstitial	300 x 250	40k	jpg or gif

iPhone/Android App Spec notes:

- Video, flash, and rich media are not allowed

*Please see file size limits for HTML5 creatives on page 2

STARTRIBUNE.COM EMAIL AND ADVANTAGE MECHANICAL REQUIREMENTS

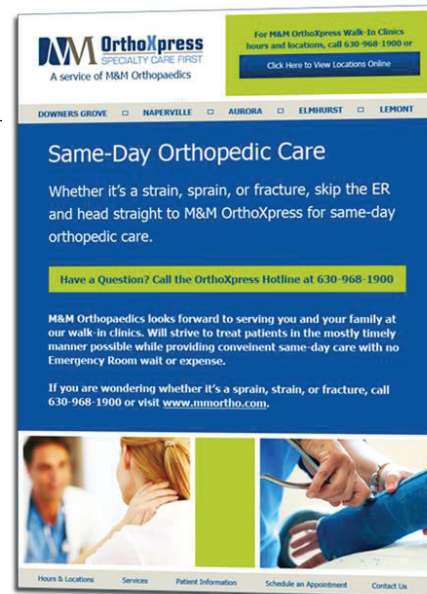
SOLO EMAILS (ADVANTAGE AND FYI)

Star Tribune will provide production services for your e-mail creative at no extra charge. If you plan on designing your own creative, here are some helpful tips & guidelines to ensure the best deliverability and results:

- Make sure the offer is relevant to the audience.
- Have one strong call to action to determine success of your email campaign such as a spike in direct traffic or a 1-800 number. Many people view emails in the preview pane which doesn't always register as an open in reporting.
- Do not use SPAM words or phrases such as: "Free!", "Amazing", "Get paid", "Earn Money"
- Design an ad with:
 - A benefit statement headline
 - An image relevant to what you are selling
 - Effective landing pages (either your website or custom jump page)

Calls to Action

- Navigation options to click to site
- Clear headline
- 1 Strong call to action
- Several softer calls to action
- Locations, directions



What We Need To Run Your Email:

1. HTML creative if you are designing it
2. Any image files used in the email
3. Seed list email addresses – these will be included in the list when the campaign is deployed
4. Tracking system info if you are using Google Analytics, redirects, etc.
5. Working URLs used in the e-mail

Production Guidelines

- HTML file sizes commonly used are centered and are 400x400px to 600x600px. You may increase the depth, but "less is more"
- Use a mix of HTML text and images so that if recipients have images blocked in their email settings they can still see your message. Add "click to view" links in your pre-header texts.
- Images are accepted in JPG, PNG, and GIF formats. File size should be kept to a minimum for quicker downloading.
- Use In-Line styles, not external stylesheets.
- Do not use Image Mapping code.
- Add style block code to images: style="display: block;"
- Bullet points that have spacing before or after need to have that space coded: •
- Do not use a background image, most email sending applications will remove these.
- Do not use <div> for coding.
- Font styles should be coded in a font tag whenever possible - coding font styles in <td> or other tags should be avoided. Use font lists.
- All special characters such as bullets, copyright symbols and other characters should be converted into images or avoided if possible as these elements will not show or look the same across different email platforms.
- For more information and detail about coding, structuring, and creating HTML emails: <http://kb.mailchimp.com/article/how-to-code-html-emails/>