The Guide Specification contained within is intended to be used only as a “Guide.” The user accepts all responsibility for project specifications. ClarkDietrich bears no responsibility for errors or omissions of any portions of the project specifications.

**SECTION 09 22 36**

**METAL LATH and ACCESSORIES**

**This document contains notes for the specifier. Specifier notes will not print.**

**Notes refer to the paragraph below. Click on the pilcrow symbol “¶” on your Word Taskbar to reveal editor’s notes**

**Coordinate section numbers and titles with remainder of Project Manual.**

GENERAL

Related Documents: Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 – Specification Sections, apply to Work of this Section. The Contractor and Installer of the Work shall examine the specifications and shall thoroughly familiarize themselves with all provisions regarding the Work of this Section.

SUMMARY

Insert a Description Of The Work

Delete unused sections.

Section includes:

Related Sections:

Portland Cement-Based Plaster – Drainage Wall Systems

Traditional 3-coat Lathed Systems

Defined Drainage Space and Rainscreen Systems

Portland Cement-Based Plaster – Direct-Applied and Sealed Face-barrier Systems

Section 03 30 00 – Cast-in-Place Concrete

Check that open textured units and cut flush mortar joints are specified in Division 04. where concrete masonry surfaces are intended to receive plaster. In some Florida markets, a smooth texture block is typical. For further information on block texture see FC &PA Technical Bulletins ST-01-07 and ST-05-07 available at www.fcpa.org. If bond between the block and the plaster is a concern, a dash-bond coat or, a bonding agent conforming to ASTM C932 should be specified.

“Sponging” of the mortar joints by the mason should be prohibited in the Masonry Section of the Project Specifications. This action renders the masonry units unfit to receive plaster and requires cleaning prior to the application of plaster. Specify that mortar joints should be full depth and cut flush.

Section 04 22 00 – Concrete Unit Masonry

Check that a minimum 1/8 in. (3 mm) space is specified between the edges of abutting wood based sheathing.

Verify that all fastening for wood based sheathing comply with APA-An Engineered Wood Association (APA) requirements.

Section 06 11 00 – Wood Framing

F I O: The APA recommendation is to install wood sheathing with a 1/8 gap on all sides is critical in minimizing stucco cracking caused by stresses induced by moisture or temperature in the sheathing. The plastering contractor should notify appropriate party, in writing, if conditions are not acceptable.

Section 06 16 00 – Sheathing

Section 07 10 00 – Dampproofing and Waterproofing

Section 07 60 00 – Flashing and Sheet Metal

Section 09 22 16 – Metal Framing

Many larger projects specify lath and accessories under Section 09 22 36. In short form specifications, lath and accessories are often specified within this Section, 09 24 23. It is the specifier's choice. This Guide includes general notes for inclusion of Lath and Accessories in this Section.

REFERENCES

The applicable date for each reference should be given here. Use latest or other desired edition. When a date other than the latest edition is used, the specifier should state his intent in the use of that edition. It is commonly found that the latest published edition is much newer than the Code Referenced edition. In this case, the newer edition should be specified.

Specify the local, in-force building code for your project location.

Building Code: IBC (2021)

ASTM C91/C91M- Standard Specification for Masonry Cement

ASTM C150/C150M- Standard Specification for Portland Cement

ASTM C207-Standard Specification for Hydrated Lime for Masonry Purposes.

ASTM C847- Standard Specification for Metal Lath

ASTM C897- Standard Specification for Aggregates for Job Mixed Portland Cement-Based Plaster

ASTM C926- Standard Specification for Application of Portland Cement-Based Plaster

ASTM C932 - Standard Specification for Surface-Applied Bonding Agents for Exterior Plastering

ASTM C933– Standard Specification for Welded Wire Lath

ASTM C979/C979M- Pigments for Integrally Colored Concrete

ASTM C1063- Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster

ASTM C1116/C1116M- Standard Specification for Fiber-Reinforced Concrete and Shotcrete

ASTM C1328/C1328M- Standard Specification for Plastic (Stucco) Cement

ASTM C1861- Standard Specification for Lathing and Furring Accessories, and Fasteners, for Interior and Exterior Portland-Cement-Based Plaster

ASTM D4216- Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) and Related PVC and Chlorinated Poly (Vinyl Chloride) (CPVC) Building Products Compounds

ICC Evaluation Service, Inc. AC38 Acceptance Criteria for Weather-Resistive Barriers.

ICC Evaluation Service, Inc. AC356 Moisture Drainage Systems Used with Exterior Cement Plaster or Adhered Masonry Veneer Walls

SUBMITTALS

Certification of compliance of materials with Contract Documents.

Manufacturer’s written specifications, and installation instructions for factory-prepared materials.

Manufacturer’s Safety Data Sheet.

Delete if project size does not require such qualifications.

Evidence of applicator’s experience including project identification with names of Owner and Architect/Engineer. Letter from Lathing manufacturer is acceptable.

QUALITY ASSURANCE

Delete when project size does not require such qualifications.

Applicator Qualifications: Application of cement plaster on at least three projects equal in scope to this Work. Provide evidence of applicator’s experience including project identification with names of Owner and Architect/Engineer.

The lathing contractor should notify appropriate party, in writing, if conditions are not acceptable.

DELIVERY, STORAGE AND HANDLING

Deliver manufactured materials in original unopened packages or containers, identified with manufacturer’s label intact and legible. Deliver materials in sufficient quantity to assure continuity of work. Select and utilize handling equipment so as to avoid damage to materials handled and damage to other construction.

Keep all materials dry, stored above ground, under cover and away from damp surfaces.

PROJECT CONDITIONS

The plastering contractor should notify appropriate party, in writing, if conditions are not acceptable.

Installer must examine surfaces that are to receive lath. Alter and prepare surfaces to insure a timely completion of the work. Do not proceed with lathing until unsatisfactory conditions have been corrected in a manner acceptable to the Installer and Architect.

Verify framing for support of Portland Cement-Based Plaster meets the IBC 2021 deflection criteria of L/360.

Verify Wood sheathing is gapped a minimum of 1/8 inch around all edges and 1/8 inch from all other structural elements such as masonry or concrete.

Verify the moisture content of wood sheathing substrates are in accordance with the requirements of the specified building code and ASTM C926.

Delete if no exterior work.

Delete if not applicable to Site location.

Method of temporary protection and heat is option of Contractor.

PRODUCTS

MANUFACTURERS

Insert alternate/equals as desired

Approved Manufacturers:

Water Resistant Barriers: Sheet Goods

Drainage Plane: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Bond Break: Fortifiber div. of Henry Co.

Delete if not applicable.

Water Resistant Barriers: Fluid-Applied: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Delete if not applicable.

Rainscreen (if included): ClarkDietrich

Lath and Metal Accessories

ClarkDietrich

 9050 Centre Pointe Dr.; Suite 400

 West Chester, OH 45069

 (513) 870-1100

 [www.clarkdietrich.com](http://www.clarkdietrich.com)

PVC Accessories

ClarkDietrich (Vinyl Corp.)

8000 NW 79th Place

Miami, FL 33166

(305) 477-6464

[www.clarkdietrich.com](http://www.clarkdietrich.com)

Tie wire shall be used to tie lath to Control Joints only. No tying or lacing of side and end laps of lath is required.

Tie-Wire: Galvanized, annealed, 18 ga. wire.

Specific use sealants may also be specified here.

Sealants

General purpose sealant/caulk:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MATERIALS

The specifier may wish to list approved manufacturers as well.

Where possible, specify single-source for selection of WRBs, Self-adhered Flashing and Tape.

Weather Resistive Barriers

Indicate Manufacturer and model name/#

Drainage Plane WRB: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Bond Break WRB: Jumbo-Tex 30 or 60

Delete if not applicable.

Rainscreen: E-Screen by ClarkDietrich

Structa Wire equivalents to expanded metal lath: 1.14 lb/yd2 = 2.5 EML; 1.95 lb/yd2 = 3.4 EML.

Delete specific sections if not applicable..

Welded-Wire Lath: ASTM C 933.

1. Structa Wire Lath, Twin Trac, 1.14 lb/yd2.

2. Structa Wire Lath, Mega Lath, 1.95 lb/yd2.

It is recommended to specify PVC accessories for application in coastal (high salt) environments.

Indicate Model #, depth of ground(s) for all accessories.

Accessories

PVC accessories complying with ASTM D4216

Weep or Drainage Screeds:

Foundation weep screed: CD # WS

Mid-wall Weep Screed: CD # WS15

Alternative Weep or Drainage mechanism components: BackerBead Drip Flashing (DFL78-25BB) with Casing bead, CD # 66-EF.

Control Joint: CD # 15-EF

Expansion Joint: CD # 40 or 50

Plasterstop/Casing Bead: CD # 66-EF.

For higher ground thicknesses use E-Flange Bandmaker Casing Bead.

Cornerbead: E-Corner (buried and embedded)

Corner option: CD #1 Standard exposed nose finish.

Specify the depth of ground for Archmaker where desired ground is more or less than 7/8”

Archmaker™ : CD # DCB -A

Sealants

Hi-performance, paintable or colored: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EXECUTION

The APA recommendation is to install wood sheathing with a 1/8 gap on all sides is critical in minimizing stucco cracking caused by stresses caused by moisture in the sheathing. This gap is also required by ASTM C1063 The plastering contractor should notify appropriate party if conditions are not acceptable.

EXAMINATION

Tolerances for substrates shall not exceed ¼ inch in 10 feet in any direction, non-accumulative.

Substrates to receive lath and plaster shall have a deflection criteria of L/360.

Verify that all substrates to receive lath conform to the Requirements of ASTM C926.

General – All Substrates

All surfaces to receive lath are within a plane tolerance of ¼ inch in 10 feet.

The sequential application and proper placement of flashing and sealants are of paramount importance in wet climate zones. Redundancy is recommended. At a minimum, penetrations should be flashed and sealed at the substrate or drainage plane level. Providing isolation and adding sealants at the finish level helps ensure the longevity and durability of such seals against potential water intrusion while also reducing cracking at penetrations.

All penetrations through the building envelope (windows, doors, conduits, vents and others) have been properly flashed and sealed at the drainage plane.

Delete if not required.

Drainage Systems

Seams, joints and terminations of all Drainage Plane WRBs are taped or sealed.

All penetrations are flashed and sealed at the drainage plane.

Delete if not required.

Sealed Face-Barrier Systems:

Seams , joints and terminations of all Drainage Plane WRBs are taped or sealed.

All penetrations are flashed and sealed at the drainage plane.

Verify that areas and conditions under which work is to be performed permit proper and timely completion in a workmanlike manner.

Notify Superintendent/Builder in writing if conditions are not acceptable.

PREPARATION

Face-Barrier Systems

Clean the surface to receive plaster of all foreign materials such as cement dust, dirt or form-release agents prior to application of the plaster.

Follow ASTM C926 to achieve bond of plaster to cementitious surface.

Specify two layers of WRB. The two layers can be of the same material but usually are not. It is recommended to use a Drainage Plane WRB that is designed to provide drainage channels for water that may penetrate the outer layer (Bond-Break) WRB.

ClarkDietrich recommends wrapping the structure with two separate layers of differing material and application of Structa Wire lath. This method reduces the number of seams in the bond-break layer and facilitates the application of accessories.

Delete if not applicable.

Drainage Wall Systems (Concealed Barrier) without Rainscreens

Install Water-Resistant-Barriers (WRBs) in accordance with manufacturer’s instructions.

Install the Drainage Plane WRB, as specified in Section 2.2.A.1 above, in accordance with manufacturer’s instructions. Tape and seal all seams and joints with compatible tape.

Install the Bond-Break WRB, as specified in Section 2.2.A.2 above, in accordance with manufacturer’s instructions. Stagger all seams and joints with those of the Drainage Plane WRB. Tape and seal all seams, joints and terminations with compatible tape.

Water-Resistive Barriers and lath are required over metal and wood framed construction, and may be used over solid bases as a last resort where other means of ensuring bond (see Section 6.2 of ASTM C926) are ineffective. Specify installation of WRB(s) and lath in Section 09 22 36 in accordance with ASTM C926, ASTM C1063, and applicable building codes. Should the control joints on the drawing conflict with the codes and standards, the lathing contractor should notify the Contractor or Architect/Engineer (in accordance with the established communications channels) in writing that the conditions are not acceptable. Where dissimilar base materials abut and are to receive a continuous coat of plaster, install in accordance with ASTM C926 section A2.3.3.

Coordinate with Section 09 24 00

Delete if not applicable.

Drainage Wall Systems (Concealed Barrier) with Rainscreens

Install Water-Resistant-Barriers (WRBs) in accordance with manufacturer’s instructions.

Install the Drainage Plane WRB, as specified in Section 2.2.A.1 above, in accordance with manufacturer’s instructions. Tape and seal all seams, joints and terminations with compatible tape.

Many rainscreen products include a bond-break layer. Ensure that this layer is a compliant WRB. For products that have a bond break layer but do not include a bond-break WRB, a separate layer shall be specified and installed. Depending upon whether the rainscreen chosen includes a bond-break WRB, items b & c below may be combined as one step.

Install the Bond-Break WRB, as specified in Section 2.2.A.2 above, in accordance with manufacturer’s instructions. Stagger all seams and joints with those of the Drainage Plane WRB. Tape and seal all seams, joints and terminations with compatible tape.

Install the Rainscreen material as specified in Section 2.2.A.2 above, in accordance with manufacturer’s instructions.

The type, location and depth of ground of the control joint is required by ASTM C926 and C1063 to be specified and shown on the Contract Drawings. Control joints types and locations are design elements requiring the calculation of movement of both the plaster coat and the substrate and, as such, require the attention of the design professional. Do not leave this to the plasterer.

APPLICATION

Install all accessories prior to plaster application and in accordance with the drawings and specifications.

Butt joints of accessories shall be pressed into fresh sealant to embed the joint in sealant.

Cornerbeads and casing bead flanges to contact wire lath at fastening points. No WRB to interfere with contact.

Intersections of accessories shall be mitered to maintain the attachment flanges in plane and shall be pressed into fresh sealant to embed the joint.

Exception: No sealant shall be placed where an accessory terminates on a weep mechanism.

Install control and expansion joints in accordance with drawings and specifications.

Control Joints shall be tied to the lath, staggered 7”-on-center on either side of the flange. To stabilize and align the control joint, use a hand driven stapler which does not penetrate the WRBs more than ½”.

Lath shall be discontinuous at the Control or Expansion Joints.

In vertical wall applications, such as continuous insulation, supports for lath are often perpendicular to the vertical wall supports. In this condition, Structa Wire lath is permitted to be run vertical as the lath will still be perpendicular to its’ supports as required by C1063.

Install Structa Wire lath in accordance with the manufacturer’s instructions and ASTM C926 and C1063.

Lap lengths exceeding those of C1063 or exceeding one square (as stated below) shall be allowable.

Lap sides a minimum one wire square of the Structa Wire of the upper roll’s run lapping just past the twin wires of the lower roll’s layer.

Lap end laps a minimum of one wire square.

Tying or lacing of side and end laps of Structa Wire lath shall not be required.

Structa Wire lath (Twin Trac™) be installed perpendicular to supports in horizontal (left to right) orientation. Mega Lath™ may be installed horizontal as well as vertically on horizontal framing (Z-furring) for continuous insulation systems.

Both styles of Structa Wire lath may follow the rake of the roof line for installation purpose.

All Structa Wire lath to make contact with any accessory installed on the project, in that given area.

Install plaster over lath in accordance with the requirements of ASTM C926 for the application of cement plaster on lath.

END OF SECTION

For further information or specification assistance see SECTION 09-24-23, Portland Cement Stucco or contact your ClarkDietrich representative.